



TWA/41/25

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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

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TECHNICAL WORKING PARTY FOR AGRICULTURAL CROPS

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REVISION OF DOCUMENT TGP/14:

Section 2 : Botanical Terms

Subsection 3: Color

Document prepared by experts from Germany and the Netherlands

BACKGROUND

1. The Technical Committee (TC), at its forty-eighth session, held in Geneva from March 26 to 28, considered the draft of Section 2: Botanical Terms, Subsection 3: Color, as set out in the Annex to document TC/48/21.
2. The TC, at its forty-eighth session, agreed that a new draft, based on the document TC/48/21 and the comments of the Technical Working Parties (TWPs), should be prepared by the experts from Germany and the Netherlands, for consideration by the TWPs at their sessions in 2012.
3. The comments of the TWPs on the text in document TC/48/21 were as follows:

General	The TWA noted the modifications made to document TWA/40/16 Rev. With regard to "Section 2: Botanical Terms, Subsection 3: Color", contained in the Annex to document TWA/40/16 Rev.	TWA
	The TWC considered document TWC/29/16. The TWC noted that different color groups, as established in Section 3 of Annex I of document TWC/29/16, were not created for the purpose of grouping varieties for DUS trials and should not be used for that purpose. The TWC agreed to invite papers on how information on colors is used for DUS examination for presentation at the next session of the TWC and to inform other Technical Working Parties.	TWC
	With regard to the comments of the Technical Working Party on Automation and Computer Programs (TWC), at its twenty-ninth session, held in Geneva, from June 7 to 10, 2011 (see paragraph 6 of this document), the TWO and the TWF noted that the reference to inviting papers on how information on colors is used for DUS examination referred to the use of image analysis to assess color.	TWO TWF

1.	<p>To add an explanation that “Color is complex and can be defined in terms of three main elements: HUE (distinguishes the different colors), SATURATION (the element of color that indicates the purity or grayness of the color) and the BRIGHTNESS (distinguishes the total amount of light that is reflected by the color, how the color is perceived by the eye on the dark to light scale).”</p> <p>In addition, to explain that, in some circles (e.g. industry), it is common practice to use a separation of two elements of color: COLOR and INTENSITY (= brightness): one-color; self-colored etc., but that such an approach is not necessarily followed in the Test Guidelines.</p>	TWO TWF
2.	The TWV considered that the new section for color characteristics should include guidance that the Test Guidelines should provide an explanation of the use of color terms that did not follow generally accepted rules, e.g. the use of “red” in onion for “purple” colors.	TWV
2.	The TWO and the TWF did not agree with the proposal made by the TWV at its forty-fifth session, that the new section for color characteristics should include guidance that the Test Guidelines should provide an explanation of the use of color terms that did not follow generally accepted rules, e.g. the use of “red” in onion for “purple” colors.	TWO TWF
2.1	To be revised in accordance with changes below.	TWO TWF
2.2	To explain that the level of precision of color used in states of expression will vary according to the circumstances. For example, the following states of expression reflect differing levels of precision: yellow; yellow orange; yellowish orange; light yellow; RHS Colour Chart reference.	TWO TWF
2.3	Title to read “2.3 <i>Observation of color</i> ”	TWO TWF
2.4.1	To be reviewed in accordance with changes to 2.2.	TWO TWF
3.	To provide introduction based on Section 3.3	TWO TWF
3.1	To be deleted	TWO TWF
3.2.1	To amend the example to read: “The main color is the color with the largest surface area. In cases where the areas of the main and secondary color are approximately the same [the darkest color] / [the color..[location]...] is considered to be the main color.”	TWO TWF
3.2.1	(a) GROUND COLOR: to explain that “Ground color” can be used in the following ways: (i) For organs which have two independent layers of tissue containing color pigmentation (e.g. apple), the two layers could be described as follows: “The ground color is the first color to appear chronologically during the development of the plant part. Other	TWO TWF

	<p>colors may develop in time in the form of spots, blotches, or a color flush or blush”</p> <p>(ii) The ground color of the upper side is the color that is the main color of the lower side of an organ.</p> <p>(iii) The ground color is the color which has a continuous dispersion across the surface of the plant part.</p> <p>It should also be explained that the ground color is not always the color occupying the largest surface area of the plant part concerned. It should also be explained, where appropriate, that the ground color is not always visible.</p>	
3.2.3	Example 1: to delete “Only varieties with one color:”	TWO TWF
3.2.4	<p>To add the example provided in document TG/HEUCH(proj.4) Example 1. to read “Leaf blade : secondary color (if present)” (TWF).</p> <p>The RHS 203D is indicated as the highest in the ordering of the color charts. However, 203D is not included in Appendix I to Annex I on page 29. This is because the table in Appendix I does not include the 2007 edition of the charts. To update the paragraph as follows (changes highlighted in yellow):</p> <p>“The colors are then ordered from the lowest to highest number according to the color number from the Colour Chart, with the lowest number being RHS 1 A and the highest number being RHS 202D. Additional cards in new editions of the RHS Colour charts may increase the highest number. With this approach the determination of color is made without consideration of the surface area occupied by that color.</p> <p>The following standard explanation should be included in the Test Guidelines when using this approach for describing color: The order of colors follows the RHS Colour Chart order. For example, in the RHS Colour charts 2001 edition, the lowest number is RHS 1A and the highest RHS 202D.”</p>	TWO TWF TWF
3.2.5	The TWA recommended that the new proposal for subsection 3.2.5 “Variegation” be redrafted to avoid the impression that variegation is only limited to white and yellow color.	TWA
3.2.5	To delete new proposal: "Variegation" is the term for white or yellow colored zones on the leaf with diminished or no chlorophyll. These zones can have different shapes; they occur as longitudinal stripes, as irregularly shaped areas or along the margin of a leaf. They are contrasting with the usual green color of the leaf.	TWO TWF
3.2.7	To delete “In some cases conspicuousness could be difficult to be observed, for instance for small organs (e.g. veins, hairs), or because they are not consistently expressed across the organ	TWO TWF
3.2.(=3.3)	To be moved to become the introduction to Part III	TWO TWF
4.1	To be reviewed	TWO TWF
4.2	To be deleted	TWO TWF

4.3	To use the schematic illustration of the different color patterns in Annex II to define terms for pattern, with necessary amendments, e.g. addition of missing terms from Sections 4.3.2 to 4.3.6 and modification of “central band” to “transverse band”. To incorporate the schematic in Annex II into the main document. Sections 4.3.2 to 4.3.6 to be replaced by schematic in Annex II.	TWO TWF
4.3.2	The proposal from New Zealand to read as follows: DOTTED: having clear, regular, very small spots PATCHED: having clear, irregular, medium spots BLOTCHED: having clear, irregular, large spots FLECKED: having diffuse, irregular, small spots SPECKLED: having diffuse, irregular, medium spots MOTTLED: having diffuse, irregular, large spots	TWC
4.5	To check for consistency with Annex II / revised Section 4.3 To amend spelling of “BASAL THREE QUARTERS” in Section 4.5.2.	TWO TWF
5	To check for consistency with Annex II / revised Section 4.3	TWO TWF
Annex I	To update to include reference to latest RHS Colour Chart version To delete paragraph 1.3	TWO TWF
Annex I	To check Spanish translation of colors in Appendix	TWF

4. The TC also agreed that a website reference for the Royal Horticultural Society should be included in Part VI: Literature.

5. The new Draft for Subsection 3: Color prepared by experts from Germany and the Netherlands is contained in the Annex to this document.

[Annex follows]

TWA/41/25

ANNEX

TGP/14: SUBSECTION 3: COLOR

DRAFT 9

DOCUMENT TGP/14

“GLOSSARY OF TERMS USED IN UPOV DOCUMENTS”

Section 2: Botanical Terms

Subsection 3: Color

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(NOTE: Will be updated once subgroup has discussed the draft)

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ANNEX: COLOR NAMES FOR THE RHS COLOUR CHART

Appendix I: Allocation of UPOV Color Groups for each RHS Color in RHS Reference order

Appendix II: RHS Colors contained in each UPOV Color Group

SUBSECTION 3: COLOR

PART I: INTRODUCTION

1. The purpose of this document is:
 - (a) To provide guidance on the development of characteristics related to colors and color patterns;
 - (b) To provide standard illustrations and examples in relation to colors and color patterns which may be useful for inclusion in the Test Guidelines, whilst noting that illustrations for specific characteristics can be found in the relevant Test Guidelines and noting that searches for relevant individual characteristics can be made through TGP/7 “Collection of Approved Characteristics”; and
 - (c) To provide definitions of botanical terms with an indication of whether those terms are generally used in Test Guidelines, or whether alternative terms might be more appropriate for use in Test Guidelines.

Color is complex and can be defined in terms of three main elements: HUE (distinguishes the different colors), SATURATION (the element of color that indicates the purity or grayness of the color) and the INTENSITY (distinguishes the total amount of light that is reflected by the color, how the color is perceived by the eye on the dark to light scale).

For describing colors of plants in test guidelines, it is the usual practice to observe two of the three elements, COLOR and INTENSITY. SATURATION is effectively incorporated into the observation of COLOR.

PART II: COLOR

2.1 Terms used for color

The terms used to describe color can be a single color, a color range, the intensity of a color and the RHS Colour Chart Number. These terms have different levels of precision:

		state of expression	example
<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); margin-right: 5px;">level of precision</div> <div style="border-left: 1px solid black; border-right: 1px solid black; height: 100%; margin: 0 5px;"></div> </div>	low	single color	yellow, orange, red
		color range	(a) yellow, yellow orange, orange, orange red, red (b) white, yellowish white, yellow, yellowish orange
		intensity	light yellow, medium yellow, dark yellow, light orange, medium orange
	high	RHS Colour Chart No.	RHS 41 B

According to the plant species, the organ observed and the level of variation within and between the varieties the drafter of a TG has to decide which level of precision is useful for the characteristic. In species where only a limited number of clearly different colors of an organ are feasible, a description of the single color would be appropriate (see 2.2.1).

In species where many similar colors are possible the use of the RHS Colour Chart would be appropriate (see 2.2.4). However, if the size of the colored surface or the amount of color is very small, where other surface elements influence the observation, colors are blended or not well represented on the chart, the use of a color chart might not be possible or sensible. The same is true when an overall impression of the color is required.

2.2 States of expression for color characteristics

2.2.1 Single color

A single color has the lowest precision to describe the state of expression.

Example: Flower: color: white (1); yellow (2); orange (3); red (4)

2.2.2 Color range

By using color combinations together with single colors (= color range) the state of expression can be described more precisely than with single colors only.

(a) In color combinations the second color indicates the predominant color with blending of both colors, resulting in what can look like a single color. For example in "green red" the predominant color is red and in "red green" the predominant color is green.

Example: Flower: color: white (1); yellow white (2); yellow (3); yellow orange (4); orange (5)

(b) The use of "ish" in color combinations indicates that there is a predominant color (e.g. yellow) together with another minor color. For example,

yellowish covers all colors which are predominantly yellow (would include, for example, white yellow; brown yellow; orange yellow; etc.)

yellowish green covers all colors which are predominantly green with some yellow (would include, for example, white yellow green; brown yellow green; orange yellow green etc.)

Example: Flower: color: whitish (1); yellowish (2); greenish (3)

2.2.3 Intensity

Depending on the organ described the intensity can be presented either alone (example 1) or in combination with the color (example 2).

Example 1: Leaf: green color of upper side: light (3); medium (5); dark (9)

Example 2: Flower: color: white (1); light yellow (2); medium yellow (3); dark yellow (4); orange (5)

2.2.4 Color Chart

If it is necessary to describe a color with a color chart, UPOV uses the color chart from the Royal Horticultural Society (RHS), the "RHS Colour Chart" because of its worldwide availability. There are 5 editions of this color chart, dating from 1966, 1986, 1995, 2001 and 2007. Since 2005, the "RHS Mini Colour Chart" has also been published by the Flower Council Holland and is also frequently used by breeders. Other color charts might also be appropriate.

Document TGP/7 "Development of Test Guidelines" (see ASW 4(2)(d)) explains that "Because daylight varies, color determinations made against a color chart should be made either in a suitable cabinet providing artificial daylight or in the middle of the day in a room without direct sunlight. The spectral distribution of the illuminant for artificial daylight should conform with the CIE Standard of Preferred Daylight D 6500 and should fall within the tolerances set out in the British Standard 950, Part I. These determinations should be

made with the plant part placed against a white background". When it is not possible to make observations under artificial daylight, for example when observations have to be made in the open, observations should not be made in direct sunlight. The observations should be made on a cloudy day with sufficient light intensity, or in a shaded area. When artificial shading is needed in the open, it should be ensured that the color of the shading cloth does not interfere with the observations.

When using the RHS Colour Chart, the reference number of the RHS color, the color name and the edition of the chart should be mentioned in the variety description. **A proposal for naming the colors** has been made in the **ANNEX** of this document.

2.3 Developing characteristics

2.3.1 Type of expression

As explained in the introduction, color is complex and can be defined in terms of 3 main elements: hue, saturation and intensity. Therefore, any characteristic which combines more than one of those elements is likely to constitute a pseudo-qualitative characteristic. However, in those cases in which only the intensity of a color varies, the type of expression would be quantitative. In those cases where there is a low precision and a clear discontinuity between the colors (e.g. white and red), the type of expression would be qualitative.

Examples

(a) Qualitative characteristics

Stem: color: green (1); red (2)

(b) Quantitative characteristics

Leaf: intensity of green color: light (3); medium (5); dark (7)

(c) Pseudo-qualitative characteristics

(i) Single colors

Flower: color: white (1); yellow (2); orange (3); red (4)

(ii) Single colors and intensity

Flower: color: white (1); light yellow (2); medium yellow (3); dark yellow (4); orange (5)

(iii) Color combination

Flower: color: white (1); yellow white (2); yellow (3); yellow orange(4); orange (5)
Spathe: color of apex: whitish (1); yellowish (2); greenish (3)

(iv) Color chart

Flower: color: RHS Colour Chart (indicate reference number)
→ variety description: RHS 11D – light yellow orange

2.3.2 Order of states of expression

In the Test Guidelines, the states of expression for colors are normally presented in the following order: white, green, yellow, orange, pink, red, purple, violet, blue, brown, black (note: it is quite common to have the order white, yellow, green where only those colors occur). However, the chronological appearance of the color (e.g. as the fruit ripens) may also be used (see also document TGP/14/1 "Glossary of Technical, Botanical and Statistical Terms Used in UPOV Documents" [*cross ref.*]) where appropriate. The same sequence should normally be used for organs with similar states within the same Test Guidelines (e.g. color of leaf and color of the stem).

2.4 Unsuitable color names

Color terms such as "bronze", "fuchsia", "gold", "ochre", "salmon", "silver", etc. should not be used as states of expression in the Test Guidelines because they could cause confusion concerning the intended color. Therefore, these terms should be replaced by standard colors (e.g. orange brown instead of bronze).

2.5 Timing of observations

2.5.1 All color observations on the different organs of the plant should be made at a clearly defined stage of development of the organ. Color expression of the organ might change, for example, during development or aging of the plant/organ or the time of the day.

2.5.2 In cases where the color of an organ changes during the development of the plant, it may be appropriate to have separate characteristics for the color at appropriate, clearly defined stages of development. In some cases, it may also be appropriate to have a characteristic which describes the rate at which the color changes.

2.6 Organ elements that may distort color

The observation of color on a surface or whole organ can be distorted by the presence of glaucosity or hair. The characteristic should make it clear whether or not the overall color is observed or the color surface after the glaucosity or hair has been removed.

Example: Fruit: color of skin (hair removed)
Leaf: color of upper side (wax removed)

PART III: APPROACHES TO DESCRIBE COLORS AND COLOR PATTERNS

The decision on which approach to use when describing the colors of a plant part depends on the number of colors, the types of color distribution and the number of color patterns which are possible for the species concerned.

- (a) In situations where only a few colors, a few types of color distribution and a few patterns need to be described, it would be appropriate to use an approach in which the colors are described according to the size of the surface area they cover (see 3.1). A good example of the use of this approach can be found in the *Alstroemeria* Test Guideline (TG/29/7).
- (b) In cases where certain organs have two layers of tissue containing color pigmentation, and one layer is covering the other, it may be appropriate to use an approach in which the ground color and the over color are described (see 3.2). An example can be found in the *Apple* Test Guideline (TG/14/9) and the *Phalaenopsis* Test Guideline (TG/213/2(proj.4)).
- (c) In cases where the different parts of an organ can have different colors, it could be appropriate to describe the color of these parts separately (see 3.3). An example for this approach can be found in the *Torenia* Test Guideline (TG/172/1).
- (d) For complex situations where several different colors and/or several different types of color distribution and color patterns are possible, it would be more appropriate to use an approach in which the different colors are described according to their order in the RHS Colour Chart ("Lisbon" approach (see 3.4)). An example for this approach can be found in the *Heuchera* Test Guideline (TG/HEUCH (proj.3)).

3.1 Approach according to the size of the surface area

In this approach all colors of a plant part are determined according to the size of the surface area they occupy. The color with the largest surface area is the main color; the one with the second largest area is the secondary color and so on.

The following standard explanation should be included in the Test Guidelines when using this approach for describing color:

"The main color is the color with the largest surface area. In cases where the areas of the main and secondary color are approximately the same [the darkest color] / [the color...[location]...] is considered to be the main color."

3.2 Approach according to tissue layers

When an organ has two layers of tissue containing color pigmentation and one layer is covering the other, the colors of the two layers can be described as ground color and over color. The term ground color can be used in different ways:

(a) **Ground color:**

(i) The ground color is the first color to appear chronologically during the development of the plant part. Other colors may develop in time in the form of spots, blotches, or a flush.

(ii) The ground color is the color which has a continuous dispersion across the surface of the plant part.

The ground color is not always the color occupying the largest surface area of the plant part concerned. For certain organs having two layers of tissue containing color pigmentation, and one layer is covering the other on the upper side of the organ it may be appropriate to determine the ground color by observing the main color of the lower side of the organ (see example Phalaenopsis).

Example: Phalaenopsis (TG/213/2(proj.4))



Petal: ground color – RHS Colour Chart 155A - white

Petal: over color – RHS Colour Chart 83A - darkviolet

(b) **Over color:**

In the case of a plant part which has a ground color upon which a second color such as a flush develops over time, the flush is considered the over color. The over color is not always the color occupying the smallest surface area of the plant part concerned.

Example: Apple (TG/14/9)

Fruit: ground color:

not visible (1), whitish yellow (2), yellow (3), whitish green (4), yellow green (5), green (6)

Fruit: hue of over color - with bloom removed

orange red (1), pink red (2), red (3), purple red (4), brown red (5)

3.3 Approach according to defined parts of an organ

- (a) If the different parts of a plant organ can have different colors, the color of these different parts can be described separately. If for example the petals can have a differently colored margin and a differently colored base, the color of the margin and the color of the base should be described in separate characteristics.

Example: Petal: color of margin

Petal: color of middle zone

Petal: color of base

- (b) When an organ has one color with different intensities, the parts of the organ which are lighter or darker could be described as follows:

*Example: Ray floret: color distribution on upper side (PQ):
lighter towards base (1); even (2); lighter towards apex (3)*

3.4 Approach according to the RHS Colour Chart number ("Lisbon" approach)

In this approach all colors of the plant part concerned are assessed using the RHS Colour Charts first. The colors are then ordered from the lowest to highest number according to the color number from the Colour Chart, with the lowest number being RHS 1 A and the highest number being RHS 203 D. Additional cards in new editions of the RHS Colour charts may increase the highest number. In this approach the determination of color is made without consideration of the surface area occupied by that color.

The following standard explanation should be included in the Test Guidelines when using this approach for describing color:

The order of colors follows the RHS Colour Chart order. For example, in the RHS Colour charts 2007 edition, the lowest number is RHS 1A and the highest RHS 203D.

The color should first be described, followed by characteristics explaining the area, distribution, pattern and if necessary the conspicuousness of the color.

The same sequence should be followed for color two, color three and so on. In order to make it clear that a variety does not show color two, color three and so on, the state of expression 'none' (1) should be added as an option to the characteristic.

Example: Heuchera (TG/HEUCH(proj.3)).

In *Heuchera* and *xHeucherella* leaf color is very significant to the overall appearance of the variety. Leaves often have several colors in different patterns and the expression of these colors and patterns can change from the young leaves to the fully expanded leaves.

Although the colors are referred to as "color one", "color two", "color three" and "color four" in the headings, this does not indicate a ranking according to prominence or area covered. The order in which the colors should be observed is dictated by the order the colors appear in the RHS Colour Chart.

In order to provide an illustration of the recording method, two worked examples are provided below. The first describes a leaf with only one color, the second a leaf with several colors.

Worked Example One – 'Pistache'(variety with only one leaf color)



36. Leaf blade: color one – RHS Colour Chart – Yellow-Green 151C
37. Leaf blade: color one: distribution – throughout (8)
38. Leaf blade: color one: pattern – solid or nearly solid (5)
39. Leaf blade: color one: total area – very large (9)
40. Leaf blade: color two – RHS Colour Chart – not applicable
41. Leaf blade: color two: distribution – none (1)
42. Leaf blade: color two: pattern – not applicable
43. Leaf blade: color two: total area – not applicable
44. Leaf blade: color three – RHS Colour Chart – not applicable
45. Leaf blade: color three: distribution – none (1)
46. Leaf blade: color three: pattern – not applicable
47. Leaf blade: color three: total area – not applicable
48. Leaf blade: color four – RHS Colour Chart – not applicable
49. Leaf blade: color four: distribution – none (1)
50. Leaf blade: color four: pattern – not applicable
51. Leaf blade: color four: total area – not applicable

Worked Example Two – 'Venus' (variety with several leaf colors)



- 36. Leaf blade: color one – RHS Colour Chart – Yellow-Green 144C
- 37. Leaf blade: color one: distribution – marginal zone (7)
- 38. Leaf blade: color one: pattern – solid or nearly solid (5)
- 39. Leaf blade: color one: total area – very small to small (2)
- 40. Leaf blade: color two – RHS Colour Chart – Greyed-Orange 176B
- 41. Leaf blade: color two: distribution – along veins (2)
- 42. Leaf blade: color two: pattern – solid or nearly solid (5)
- 43. Leaf blade: color two: total area – small (3)
- 44. Leaf blade: color three – RHS Colour Chart – Greyed-Orange 177D but more grey
- 45. Leaf blade: color three: distribution – between veins in intermediate zone (6)
- 46. Leaf blade: color three: pattern – solid or nearly solid (5)
- 47. Leaf blade: color three: total area – large (7)
- 48. Leaf blade: color four – RHS Colour Chart – not applicable
- 49. Leaf blade: color four: distribution – none (1)
- 50. Leaf blade: color four: pattern – not applicable
- 51. Leaf blade: color four: total area – not applicable

3.5 Special terms used for color characteristics

3.5.1 Variegation

Variegation: Well defined areas of different colors or intensities, with less or no chlorophyll, especially as very light green, yellow or white longitudinal stripes or irregular shaped areas or marginal zone combined with a green color on leaves.

3.5.2 Pigments (anthocyanin, carotenoid)

Color pigments like anthocyanin usually can be found on a plant organ or part of an organ in the form of an over color. Depending on the amount and intensity of the pigments it could be useful to describe the color of the organ with or without the pigments. If the pigments should be excluded from the observation it should be indicated in the characteristic (e.g. Leaf blade: color (excluding anthocyanin)).

When the name of the pigment is known, reference should be made to the name, e.g. "anthocyanin coloration". Where the name of the pigment is not known, the color should be mentioned, e.g. "red coloration".

Pigments can be described using intensity and /or size of their distribution.

*Example: Leaf blade: anthocyanin coloration (QN):
weak (3); medium (5); strong (7)*

*Example: Leaf blade distribution of anthocyanin coloration (PQ):
at margin (1); along veins (2); at base (3)*

3.5.3 Conspicuousness

CONSPICUOUS: clearly visible, evident.

INCONSPICUOUS: not clearly visible, obscure.

To make clear what is meant with the term conspicuousness the following standard wording could be used in the TG:

- (a) The conspicuousness is determined by the color contrast
- (b) The conspicuousness is determined by the color contrast combined with size.

3.6 Color change over time

When a plant organ changes the color over time it might be necessary to observe the same organ at different times of its development.

Example:

Fruit: color (before maturity)

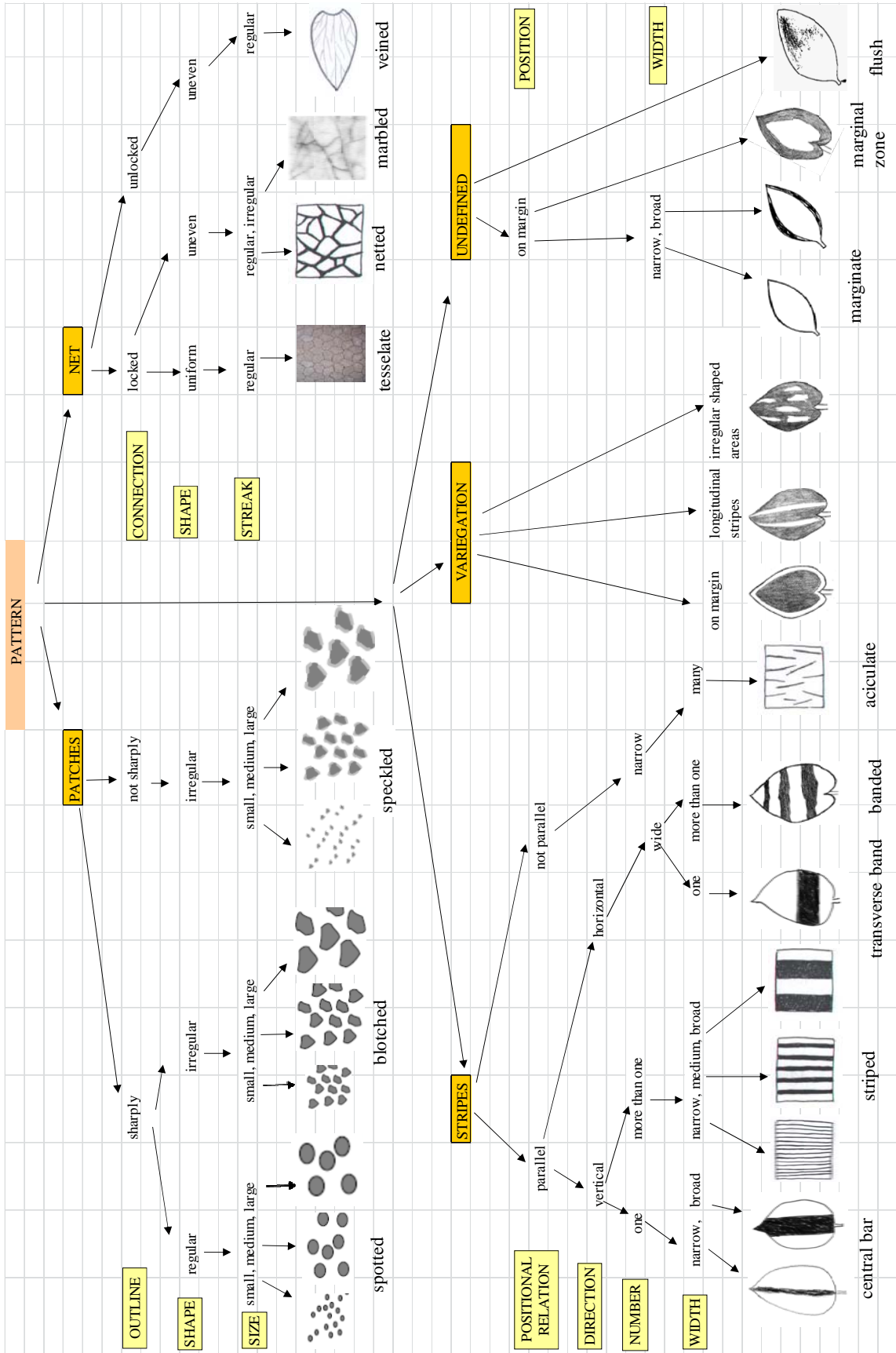
greenish white (1), yellow (2), green (3), purple (4)

Fruit: color (at maturity)

yellow (1), orange (2), red (3), brown (4), green (5)

PART IV: COLOR DISTRIBUTION AND COLOR PATTERNS

4.1 Schematic overview



4.2 Illustrations

4.2.1 Color Patterns

4.2.1.1 *Flush*



flush










4.2.1.2 *Spotted/ Blotched / Speckled*

Spot: sharply, clear outlined round or nearly round shaped colored area.

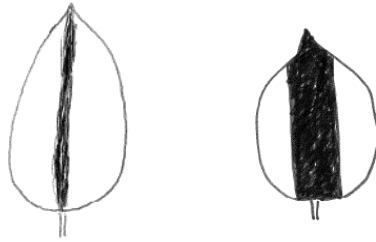
Blotch: sharply, clear outlined irregular shaped colored area.

Speckle: diffuse outlined irregular shaped colored area.

According to the outline of the pattern it can be named as seen in the following table:

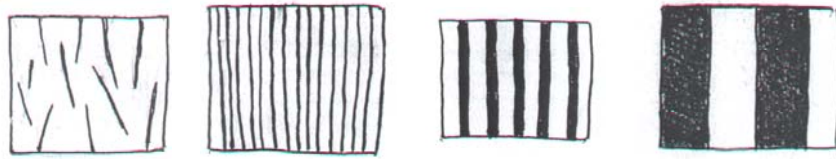
Outline/ size	clear regular	clear irregular	diffuse irregular
small	 small spots	 small blotches	 small speckles
medium	 medium spots	 medium blotches	 medium speckles
large	 large spots	 large blotches	 large speckles

4.2.1.3 *Central Bar*



narrow central bar broad central bar

4.2.1.4 *Aciculate / Striped*



aciculate narrow stripes medium stripes broad stripes

4.2.1.5 *Transverse Band / Banded*



transverse band banded

4.2.1.6 *Marginate / Marginal Zone*

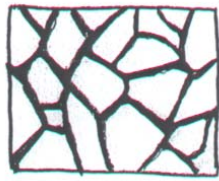


narrow marginate broad marginate on marginal zone

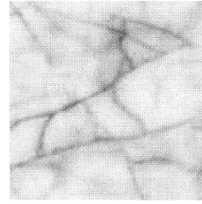
4.2.1.7 *Tessellate / Netted / Marbled / Veined*



tessellate



netted



marbled



veined

4.2.1.8 *Variegation*



at margin



along midrib



irregular

4.2.2 Color distribution

Note: distribution could be described by a combination of terms from the different sets using the words “and” or “excluding”; e. g. (a) distal quarter, excluding marginal zone, (b) distal half, excluding tip.



at base



basal quarter



basal half



basal three quarters



at tip



distal quarter



distal half



distal three quarters



central



transverse



at margin



throughout

4.3 The use of photographs to illustrate color distribution and color patterns

For all mentioned approaches it could be useful to recommend that a photograph be taken to illustrate certain color characteristics. It is recommended that a disclaimer be included in the Test Guideline to clarify the purpose for which the photograph is to be used; i.e. to illustrate the types of color distribution and/or color patterns, rather than the actual colors of the plant part concerned.

“A photograph of the [relevant plant part] could be provided in conjunction with the description in order to clarify the color distribution and/or color pattern. However, a warning should be added to this photograph, explaining that the primary intent of the photograph is to show the distribution and/or pattern of colors on the plant part rather than the actual colors. Color on photographs can be affected by the technology of the camera and the facilities used to display the photograph (printer, overhead projector, etc.).”

PART V: INDEX OF ALL TERMS

(NOTE: Will be updated once subgroup has discussed the draft)

Aciculate
Anthocyanin coloration
Banded
Blotched
Central bar
Color
Conspicuous
Dotted
Flush
Glaucosity
Ground color
Inconspicuous
Main color
Marbled
Marginal zone
Midrib
Mottled
Netted
On margin
Over color
Patched
RHS Colour Chart
RHS Mini Colour Chart
Secondary color
Speckled
Spotted
Striated
Striped
Tessellated
Variegation
Veined
Waxy layer

PART VI: LITERATURE

RHS Colour Chart, 2007, Royal Horticultural Society, London, UK (www.rhs.org.uk)

RHS Mini Colour Chart, 2005, Royal Horticultural Society, London, UK, published together with the Flower Council Holland, Leiden, NL.

Horticultural Colour Chart (HCC Chart), 1942, R.F. Wilson, Published by the British Colour Council in collaboration with the Royal Horticultural Society.

International Commission on Illumination C.I.E./USA: ISO 15469:2004/CIE S 011/E:2003,
Spatial distribution of daylight – CIE standard general sky

Rochester Institute of Technology: Munsell Color Science Laboratory; website: <http://mcsli.rit.edu>

ANNEX

COLOR NAMES FOR THE RHS COLOUR CHART

1. Introduction

1.1 When using the RHS Colour Chart, the variety description should contain both the RHS Colour Chart reference number and a name for the color. The purpose of this document is to harmonize color names for variety descriptions.

1.2 The RHS Colour Chart contains up to 896 colors, which are divided into 23 “groups” to name the colors. However, for UPOV purposes, this initial grouping seemed unable to name the colors in variety descriptions in a sufficiently precise way. Therefore, UPOV has identified 50 color “groups” which are presented in this document. It is important to note that these color “groups” were not created for the purpose of grouping varieties for DUS trials and should not be used for that purpose. Information on the grouping of varieties for DUS trials can be found in document TGP /9/1 "Examining Distinctness" [*cross ref.*].

1.3 The names used for the 50 UPOV Color Groups consist of either the [pure color] / [color hue] (e.g. yellow, orange, red), a combination of two [pure colors] / [color hues] (e.g. yellow orange, orange pink, purple red), or a combination of the [pure color(s)] / [color hue(s)] with “light” or “dark” (e.g. light yellow, dark pink red).

1.4 The color names in this document can be used with different editions of the RHS Colour Chart. The 1986 version of the RHS Colour Chart was used for the initial grouping and naming. In the 1995 edition no new charts were added. The additional charts in the 2001 edition (marked with "N") and in the 2007 edition (marked with "NN") have been integrated into the existing groups.

2. Example for the use of the UPOV Color Names in a variety description

2.1 If in Test Guidelines a characteristic is described by using the RHS Colour Chart, it is not obvious which color the plant part has, because it is only asked to indicate the RHS Colour Chart reference number, e.g.

Flower: main color of upper side RHS Colour Chart (indicate reference number)

2.2 For the variety description, it is useful to translate the RHS Colour Chart number into a color name and to fill this name into the column “state of expression”. The color name can be found in the appendix to this document, in which the RHS Colors are listed according to the UPOV Color Group to which they belong: e.g. RHS 46C belongs to group 21 “red”, RHS N 74B belongs to group 27 “purple” and RHS N 57A belongs to group 23 “purple red”.

Example:

2.3 Part of a variety description for New Guinea Impatiens (TG/196/1)

No.	Characteristic	State of expression		Note
20	Flower: main colour of upper side	red	RHS 46C	
21	<u>Varieties with bi- or multicoloured flowers only:</u> Flower: secondary colour of upper side	purple	RHS N 74B	
22	<u>Varieties with bi- or multicoloured flowers only:</u> Flower: distribution of secondary colour	mainly on upper petal		1
23	Flower: eye zone	present		9
24	Flower: size of eye zone	large		7
25	Flower: main colour of eye zone	purple red	RHS N 57A	

3. UPOV Color Groups

3.1 The 50 UPOV Color Groups are as follows:

UPOV Group No.	English	français	deutsch	español
1	white	blanc	weiss	blanco
2	light green	vert clair	hellgrün	verde claro
3	medium green	vertmoyen	mittel grün	verde medio
4	dark green	vert foncé	dunkelgrün	verde oscuro
5	yellow green	vert-jaune	gelbgrün	verde amarillento
6	grey green	vert-gris	graugrün	verde grisáceo
7	light blue green	vert-bleu clair	hellblaugrün	verde azulado claro
8	blue green	vert-bleu	blaugrün	verde azulado
9	brown green	vert-brun	braungrün	verde amarronado
10	light yellow	jaune clair	hellgelb	amarillo claro
11	yellow	jaune	gelb	amarillo
12	light yellow orange	orangé-jaune clair	hellgelborange	naranja amarillento claro
13	yellow orange	orangé-jaune	gelborange	naranja amarillento
14	orange	orange	orange	naranja
15	orange pink	rose-orangé	orangerosa	rosa anaranjado
16	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
17	red pink	rose-rouge	rotrosa	rosa rojizo
18	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
19	blue pink	rose-bleu	blaurosa	rosa azulado
20	orange red	rouge-orangé	orangerot	rojo anaranjado
21	red	rouge	rot	rojo
22	dark pink red	rouge-rose foncé	dunkelrosarot	rojo rosado oscuro
23	purple red	rouge-pourpre	purpurrot	rojo purpúreo
24	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
25	brown red	rouge-brun	braunrot	rojo amarronado
26	brown purple	pourpre-brun	braunpurpur	púrpura amarronado
27	purple	pourpre	purpurn	púrpura
28	violet	violet	violett	violeta
29	dark violet	violet foncé	dunkelviolet	violeta oscuro
30	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
31	blue violet	violet-bleu	blauviolett	violeta azulado
32	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
33	violet blue	bleu-violet	violettblau	azul violáceo
34	light blue	bleu clair	hellblau	azul claro
35	medium blue	bleu moyen	mittelblau	azul medio
36	dark blue	bleu foncé	dunkelblau	azul oscuro
37	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
38	green blue	bleu-vert	grünblau	azul verdoso
39	grey blue	bleu-gris	graublau	azul grisáceo
40	light brown	brun clair	hellbraun	marrón claro
41	medium brown	brun moyen	mittelbraun	marrón medio
42	dark brown	brun foncé	dunkelbraun	marrón oscuro
43	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
44	yellow brown	brun-jaune	gelbbraun	marrón amarillento
45	orange brown	brun-orange	orangebraun	marrón anaranjado
46	grey brown	brun-gris	graubraun	marrón grisáceo
47	green brown	brun-vert	grünbraun	marrón verdoso
48	grey	gris	grau	gris
49	green grey	gris-vert	grüingrau	gris verdoso
50	black	noir	schwarz	negro

3.2 The appendices to this document allocate the colors in the RHS Colour Chart to the appropriate UPOV Color Groups as follows:

Appendix I: Allocation of UPOV Color Groups for each RHS Color in
RHS Reference order

Appendix II: RHS Colors contained in each UPOV Color Group

[Appendices to Annex follow]

APPENDIX I TO ANNEX

Allocation of UPOV Color Groups for each RHS Color in RHS Reference order

RHS COLORS (RHS COLOUR CHART, EDITIONS 1986, 1995, 2001 AND 2007)
BY UPOV COLOR GROUPS

UPOV Group No.	No. RHS	English	français	deutsch	español
11	001A	yellow	jaune	gelb	amarillo
5	001B	yellow green	vert-jaune	gelbgrün	verde amarillento
5	001C	yellow green	vert-jaune	gelbgrün	verde amarillento
5	001D	yellow green	vert-jaune	gelbgrün	verde amarillento
11	002A	yellow	jaune	gelb	amarillo
11	002B	yellow	jaune	gelb	amarillo
5	002C	yellow green	vert-jaune	gelbgrün	verde amarillento
5	002D	yellow green	vert-jaune	gelbgrün	verde amarillento
11	003A	yellow	jaune	gelb	amarillo
11	003B	yellow	jaune	gelb	amarillo
11	003C	yellow	jaune	gelb	amarillo
5	003D	yellow green	vert-jaune	gelbgrün	verde amarillento
11	004A	yellow	jaune	gelb	amarillo
11	004B	yellow	jaune	gelb	amarillo
5	004C	yellow green	vert-jaune	gelbgrün	verde amarillento
10	004D	light yellow	jaune clair	hellgelb	amarillo claro
11	005A	yellow	jaune	gelb	amarillo
11	005B	yellow	jaune	gelb	amarillo
11	005C	yellow	jaune	gelb	amarillo
10	005D	light yellow	jaune clair	hellgelb	amarillo claro
11	006A	yellow	jaune	gelb	amarillo
11	006B	yellow	jaune	gelb	amarillo
11	006C	yellow	jaune	gelb	amarillo
10	006D	light yellow	jaune clair	hellgelb	amarillo claro
11	007A	yellow	jaune	gelb	amarillo
11	007B	yellow	jaune	gelb	amarillo
11	007C	yellow	jaune	gelb	amarillo
11	007D	yellow	jaune	gelb	amarillo
11	008A	yellow	jaune	gelb	amarillo
10	008B	light yellow	jaune clair	hellgelb	amarillo claro
10	008C	light yellow	jaune clair	hellgelb	amarillo claro
10	008D	light yellow	jaune clair	hellgelb	amarillo claro
11	009A	yellow	jaune	gelb	amarillo
11	009B	yellow	jaune	gelb	amarillo
10	009C	light yellow	jaune clair	hellgelb	amarillo claro
10	009D	light yellow	jaune clair	hellgelb	amarillo claro
10	010A	light yellow	jaune clair	hellgelb	amarillo claro
10	010B	light yellow	jaune clair	hellgelb	amarillo claro
10	010C	light yellow	jaune clair	hellgelb	amarillo claro
10	010D	light yellow	jaune clair	hellgelb	amarillo claro
13	011A	yellow orange	orangé jaune	gelborange	naranja amarillento
10	011B	light yellow	jaune clair	hellgelb	amarillo claro
10	011C	light yellow	jaune clair	hellgelb	amarillo claro
12	011D	light yellow orange	orangé jaune clair	hellgelborange	naranja amarillento claro
11	012A	yellow	jaune	gelb	amarillo
11	012B	yellow	jaune	gelb	amarillo
10	012C	light yellow	jaune clair	hellgelb	amarillo claro
10	012D	light yellow	jaune clair	hellgelb	amarillo claro
13	013A	yellow orange	orangé jaune	gelborange	naranja amarillento
13	013B	yellow orange	orangé jaune	gelborange	naranja amarillento
13	013C	yellow orange	orangé jaune	gelborange	naranja amarillento
10	013D	light yellow	jaune clair	hellgelb	amarillo claro
13	014A	yellow orange	orangé jaune	gelborange	naranja amarillento
13	014B	yellow orange	orangé jaune	gelborange	naranja amarillento
13	014C	yellow orange	orangé jaune	gelborange	naranja amarillento
10	014D	light yellow	jaune clair	hellgelb	amarillo claro
13	015A	yellow orange	orangé jaune	gelborange	naranja amarillento
13	015B	yellow orange	orangé jaune	gelborange	naranja amarillento
13	015C	yellow orange	orangé jaune	gelborange	naranja amarillento

UPOV Group No.	No. RHS	English	français	deutsch	español
10	015D	light yellow	jaune clair	hellgelb	amarillo claro
13	016A	yellow orange	orangé jaune	gelborange	naranja amarillento
13	016B	yellow orange	orangé jaune	gelborange	naranja amarillento
13	016C	yellow orange	orangé jaune	gelborange	naranja amarillento
10	016D	light yellow	jaune clair	hellgelb	amarillo claro
13	017A	yellow orange	orangé jaune	gelborange	naranja amarillento
13	017B	yellow orange	orangé jaune	gelborange	naranja amarillento
13	017C	yellow orange	orangé jaune	gelborange	naranja amarillento
13	017D	yellow orange	orangé jaune	gelborange	naranja amarillento
13	018A	yellow orange	orangé jaune	gelborange	naranja amarillento
12	018B	light yellow orange	orangé jaune clair	hellgelborange	naranja amarillento claro
12	018C	light yellow orange	orangé jaune clair	hellgelborange	naranja amarillento claro
12	018D	light yellow orange	orangé jaune clair	hellgelborange	naranja amarillento claro
13	019A	yellow orange	orangé jaune	gelborange	naranja amarillento
12	019B	light yellow orange	orangé jaune clair	hellgelborange	naranja amarillento claro
12	019C	light yellow orange	orangé jaune clair	hellgelborange	naranja amarillento claro
12	019D	light yellow orange	orangé jaune clair	hellgelborange	naranja amarillento claro
13	020A	yellow orange	orangé jaune	gelborange	naranja amarillento
13	020B	yellow orange	orangé jaune	gelborange	naranja amarillento
12	020C	light yellow orange	orangé jaune clair	hellgelborange	naranja amarillento claro
12	020D	light yellow orange	orangé jaune clair	hellgelborange	naranja amarillento claro
13	021A	yellow orange	orangé jaune	gelborange	naranja amarillento
13	021B	yellow orange	orangé jaune	gelborange	naranja amarillento
13	021C	yellow orange	orangé jaune	gelborange	naranja amarillento
12	021D	light yellow orange	orangé jaune clair	hellgelborange	naranja amarillento claro
13	022A	yellow orange	orangé jaune	gelborange	naranja amarillento
12	022B	light yellow orange	orangé jaune clair	hellgelborange	naranja amarillento claro
12	022C	light yellow orange	orangé jaune clair	hellgelborange	naranja amarillento claro
12	022D	light yellow orange	orangé jaune clair	hellgelborange	naranja amarillento claro
13	023A	yellow orange	orangé jaune	gelborange	naranja amarillento
13	023B	yellow orange	orangé jaune	gelborange	naranja amarillento
12	023C	light yellow orange	orangé jaune clair	hellgelborange	naranja amarillento claro
12	023D	light yellow orange	orangé jaune clair	hellgelborange	naranja amarillento claro
14	024A	orange	orange	orange	naranja
14	024B	orange	orange	orange	naranja
14	024C	orange	orange	orange	naranja
14	024D	orange	orange	orange	naranja
14	025A	orange	orange	orange	naranja
14	025B	orange	orange	orange	naranja
14	025C	orange	orange	orange	naranja
14	025D	orange	orange	orange	naranja
14	026A	orange	orange	orange	naranja
14	026B	orange	orange	orange	naranja
14	026C	orange	orange	orange	naranja
14	026D	orange	orange	orange	naranja
15	027A	orange pink	rose orangé	orangerosa	rosa anaranjado
15	027B	orange pink	rose orangé	orangerosa	rosa anaranjado
15	027C	orange pink	rose orangé	orangerosa	rosa anaranjado
15	027D	orange pink	rose orangé	orangerosa	rosa anaranjado
20	028A	orange red	rouge orangé	orangerot	rojo anaranjado
14	028B	orange	orange	orange	naranja
14	028C	orange	orange	orange	naranja
14	028D	orange	orange	orange	naranja
14	029A	orange	orange	orange	naranja
14	029B	orange	orange	orange	naranja
15	029C	orange pink	rose orangé	orangerosa	rosa anaranjado
15	029D	orange pink	rose orangé	orangerosa	rosa anaranjado
20	030A	orange red	rouge orangé	orangerot	rojo anaranjado
20	030B	orange red	rouge orangé	orangerot	rojo anaranjado
20	030C	orange red	rouge orangé	orangerot	rojo anaranjado
14	030D	orange	orange	orange	naranja
20	031A	orange red	rouge orangé	orangerot	rojo anaranjado
45	031B	orange brown	brun-orange	orangebraun	marrón anaranjado
45	031C	orange brown	brun-orange	orangebraun	marrón anaranjado
15	031D	orange pink	rose orangé	orangerosa	rosa anaranjado
20	032A	orange red	rouge orangé	orangerot	rojo anaranjado
20	032B	orange red	rouge orangé	orangerot	rojo anaranjado

UPOV Group No.	No. RHS	English	français	deutsch	español
45	032C	orange brown	brun-orange	orangebraun	marrón anaranjado
15	032D	orange pink	rose orangé	orangerosa	rosa anaranjado
21	033A	red	rouge	rot	rojo
20	033B	orange red	rouge orangé	orangerot	rojo anaranjado
45	033C	orange brown	brun-orange	orangebraun	marrón anaranjado
15	033D	orange pink	rose orangé	orangerosa	rosa anaranjado
21	034A	red	rouge	rot	rojo
45	034B	orange brown	brun-orange	orangebraun	marrón anaranjado
45	034C	orange brown	brun-orange	orangebraun	marrón anaranjado
45	034D	orange brown	brun-orange	orangebraun	marrón anaranjado
45	035A	orange brown	brun-orange	orangebraun	marrón anaranjado
20	035B	orange red	rouge orangé	orangerot	rojo anaranjado
15	035C	orange pink	rose orangé	orangerosa	rosa anaranjado
16	035D	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	036A	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	036B	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	036C	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	036D	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
15	037A	orange pink	rose orangé	orangerosa	rosa anaranjado
15	037B	orange pink	rose orangé	orangerosa	rosa anaranjado
16	037C	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	037D	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	038A	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	038B	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	038C	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	038D	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
20	039A	orange red	rouge orangé	orangerot	rojo anaranjado
20	039B	orange red	rouge orangé	orangerot	rojo anaranjado
16	039C	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	039D	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
21	040A	red	rouge	rot	rojo
21	040B	red	rouge	rot	rojo
20	040C	orange red	rouge orangé	orangerot	rojo anaranjado
20	040D	orange red	rouge orangé	orangerot	rojo anaranjado
21	041A	red	rouge	rot	rojo
20	041B	orange red	rouge orangé	orangerot	rojo anaranjado
20	041C	orange red	rouge orangé	orangerot	rojo anaranjado
16	041D	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
21	042A	red	rouge	rot	rojo
21	042B	red	rouge	rot	rojo
21	042C	red	rouge	rot	rojo
20	042D	orange red	rouge orangé	orangerot	rojo anaranjado
21	043A	red	rouge	rot	rojo
21	043B	red	rouge	rot	rojo
17	043C	red pink	rose-rouge	rotrosa	rosa rojizo
17	043D	red pink	rose-rouge	rotrosa	rosa rojizo
21	044A	red	rouge	rot	rojo
21	044B	red	rouge	rot	rojo
21	044C	red	rouge	rot	rojo
20	044D	orange red	rouge orangé	orangerot	rojo anaranjado
21	045A	red	rouge	rot	rojo
21	045B	red	rouge	rot	rojo
21	045C	red	rouge	rot	rojo
22	045D	dark pink red	rouge-rose foncé	dunkelrosarot	rojo rosado oscuro
24	046A	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
21	046B	red	rouge	rot	rojo
21	046C	red	rouge	rot	rojo
22	046D	dark pink red	rouge-rose foncé	dunkelrosarot	rojo rosado oscuro
21	047A	red	rouge	rot	rojo
21	047B	red	rouge	rot	rojo
22	047C	dark pink red	rouge-rose foncé	dunkelrosarot	rojo rosado oscuro
17	047D	red pink	rose-rouge	rotrosa	rosa rojizo
22	048A	dark pink red	rouge-rose foncé	dunkelrosarot	rojo rosado oscuro
17	048B	red pink	rose-rouge	rotrosa	rosa rojizo
17	048C	red pink	rose-rouge	rotrosa	rosa rojizo
17	048D	red pink	rose-rouge	rotrosa	rosa rojizo
17	049A	red pink	rose-rouge	rotrosa	rosa rojizo

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16	049B	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	049C	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	049D	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
21	050A	red	rouge	rot	rojo
22	050B	dark pink red	rouge-rose foncé	dunkelrosarot	rojo rosado oscuro
17	050C	red pink	rose-rouge	rotrosa	rosa rojizo
16	050D	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
22	051A	dark pink red	rouge-rose foncé	dunkelrosarot	rojo rosado oscuro
22	051B	dark pink red	rouge-rose foncé	dunkelrosarot	rojo rosado oscuro
17	051C	red pink	rose-rouge	rotrosa	rosa rojizo
17	051D	red pink	rose-rouge	rotrosa	rosa rojizo
22	052A	dark pink red	rouge-rose foncé	dunkelrosarot	rojo rosado oscuro
17	052B	red pink	rose-rouge	rotrosa	rosa rojizo
17	052C	red pink	rose-rouge	rotrosa	rosa rojizo
17	052D	red pink	rose-rouge	rotrosa	rosa rojizo
24	053A	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
24	053B	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
22	053C	dark pink red	rouge-rose foncé	dunkelrosarot	rojo rosado oscuro
22	053D	dark pink red	rouge-rose foncé	dunkelrosarot	rojo rosado oscuro
23	054A	purple red	rouge pourpre	purpurrot	rojo purpúreo
23	054B	purple red	rouge pourpre	purpurrot	rojo purpúreo
23	054C	purple red	rouge pourpre	purpurrot	rojo purpúreo
18	054D	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
23	055A	purple red	rouge pourpre	purpurrot	rojo purpúreo
23	055B	purple red	rouge pourpre	purpurrot	rojo purpúreo
18	055C	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	055D	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	056A	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	056B	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	056C	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	056D	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
23	057A	purple red	rouge pourpre	purpurrot	rojo purpúreo
23	057B	purple red	rouge pourpre	purpurrot	rojo purpúreo
23	057C	purple red	rouge pourpre	purpurrot	rojo purpúreo
23	057D	purple red	rouge pourpre	purpurrot	rojo purpúreo
27	058A	purple	pourpre	purpurn	púrpura
23	058B	purple red	rouge pourpre	purpurrot	rojo purpúreo
23	058C	purple red	rouge pourpre	purpurrot	rojo purpúreo
23	058D	purple red	rouge pourpre	purpurrot	rojo purpúreo
24	059A	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
24	059B	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
27	059C	purple	pourpre	purpurn	púrpura
23	059D	purple red	rouge pourpre	purpurrot	rojo purpúreo
24	060A	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
24	060B	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
27	060C	purple	pourpre	purpurn	púrpura
23	060D	purple red	rouge pourpre	purpurrot	rojo purpúreo
27	061A	purple	pourpre	purpurn	púrpura
27	061B	purple	pourpre	purpurn	púrpura
23	061C	purple red	rouge pourpre	purpurrot	rojo purpúreo
23	061D	purple red	rouge pourpre	purpurrot	rojo purpúreo
19	062A	blue pink	rose-bleu	blaurosa	rosa azulado
18	062B	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	062C	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	062D	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
23	063A	purple red	rouge pourpre	purpurrot	rojo purpúreo
19	063B	blue pink	rose-bleu	blaurosa	rosa azulado
19	063C	blue pink	rose-bleu	blaurosa	rosa azulado
18	063D	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
27	064A	purple	pourpre	purpurn	púrpura
27	064B	purple	pourpre	purpurn	púrpura
19	064C	blue pink	rose-bleu	blaurosa	rosa azulado
19	064D	blue pink	rose-bleu	blaurosa	rosa azulado
19	065A	blue pink	rose-bleu	blaurosa	rosa azulado
18	065B	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	065C	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	065D	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro

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23	066A	purple red	rouge pourpre	purpurrot	rojo purpúreo
23	066B	purple red	rouge pourpre	purpurrot	rojo purpúreo
19	066C	blue pink	rose-bleu	blaurosa	rosa azulado
19	066D	blue pink	rose-bleu	blaurosa	rosa azulado
27	067A	purple	pourpre	purpurn	púrpura
19	067B	blue pink	rose-bleu	blaurosa	rosa azulado
19	067C	blue pink	rose-bleu	blaurosa	rosa azulado
19	067D	blue pink	rose-bleu	blaurosa	rosa azulado
19	068A	blue pink	rose-bleu	blaurosa	rosa azulado
19	068B	blue pink	rose-bleu	blaurosa	rosa azulado
19	068C	blue pink	rose-bleu	blaurosa	rosa azulado
18	068D	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	069A	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	069B	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
30	069C	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
30	069D	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
27	070A	purple	pourpre	purpurn	púrpura
27	070B	purple	pourpre	purpurn	púrpura
19	070C	blue pink	rose-bleu	blaurosa	rosa azulado
18	070D	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
27	071A	purple	pourpre	purpurn	púrpura
27	071B	purple	pourpre	purpurn	púrpura
27	071C	purple	pourpre	purpurn	púrpura
19	071D	blue pink	rose-bleu	blaurosa	rosa azulado
27	072A	purple	pourpre	purpurn	púrpura
27	072B	purple	pourpre	purpurn	púrpura
19	072C	blue pink	rose-bleu	blaurosa	rosa azulado
19	072D	blue pink	rose-bleu	blaurosa	rosa azulado
19	073A	blue pink	rose-bleu	blaurosa	rosa azulado
19	073B	blue pink	rose-bleu	blaurosa	rosa azulado
18	073C	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	073D	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
27	074A	purple	pourpre	purpurn	púrpura
27	074B	purple	pourpre	purpurn	púrpura
27	074C	purple	pourpre	purpurn	púrpura
19	074D	blue pink	rose-bleu	blaurosa	rosa azulado
28	075A	violet	violet	violett	violeta
28	075B	violet	violet	violett	violeta
28	075C	violet	violet	violett	violeta
18	075D	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
30	076A	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
30	076B	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
30	076C	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
30	076D	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
28	077A	violet	violet	violett	violeta
28	077B	violet	violet	violett	violeta
28	077C	violet	violet	violett	violeta
28	077D	violet	violet	violett	violeta
28	078A	violet	violet	violett	violeta
28	078B	violet	violet	violett	violeta
28	078C	violet	violet	violett	violeta
28	078D	violet	violet	violett	violeta
29	079A	dark violet	violet foncé	dunkelviolett	violeta oscuro
29	079B	dark violet	violet foncé	dunkelviolett	violeta oscuro
29	079C	dark violet	violet foncé	dunkelviolett	violeta oscuro
29	079D	dark violet	violet foncé	dunkelviolett	violeta oscuro
28	080A	violet	violet	violett	violeta
28	080B	violet	violet	violett	violeta
28	080C	violet	violet	violett	violeta
28	080D	violet	violet	violett	violeta
28	081A	violet	violet	violett	violeta
28	081B	violet	violet	violett	violeta
28	081C	violet	violet	violett	violeta
28	081D	violet	violet	violett	violeta
28	082A	violet	violet	violett	violeta
28	082B	violet	violet	violett	violeta
28	082C	violet	violet	violett	violeta

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28	082D	violet	violet	violett	violeta
29	083A	dark violet	violet foncé	dunkelviolet	violeta oscuro
29	083B	dark violet	violet foncé	dunkelviolet	violeta oscuro
31	083C	blue violet	violet-bleu	blauviolett	violeta azulado
31	083D	blue violet	violet-bleu	blauviolett	violeta azulado
28	084A	violet	violet	violett	violeta
28	084B	violet	violet	violett	violeta
30	084C	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
30	084D	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
30	085A	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
30	085B	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
30	085C	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
30	085D	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
29	086A	dark violet	violet foncé	dunkelviolet	violeta oscuro
31	086B	blue violet	violet-bleu	blauviolett	violeta azulado
31	086C	blue violet	violet-bleu	blauviolett	violeta azulado
31	086D	blue violet	violet-bleu	blauviolett	violeta azulado
28	087A	violet	violet	violett	violeta
28	087B	violet	violet	violett	violeta
28	087C	violet	violet	violett	violeta
28	087D	violet	violet	violett	violeta
31	088A	blue violet	violet-bleu	blauviolett	violeta azulado
31	088B	blue violet	violet-bleu	blauviolett	violeta azulado
31	088C	blue violet	violet-bleu	blauviolett	violeta azulado
28	088D	violet	violet	violett	violeta
33	089A	violet blue	bleu-violet	violettblau	azul violáceo
33	089B	violet blue	bleu-violet	violettblau	azul violáceo
33	089C	violet blue	bleu-violet	violettblau	azul violáceo
33	089D	violet blue	bleu-violet	violettblau	azul violáceo
31	090A	blue violet	violet-bleu	blauviolett	violeta azulado
31	090B	blue violet	violet-bleu	blauviolett	violeta azulado
31	090C	blue violet	violet-bleu	blauviolett	violeta azulado
31	090D	blue violet	violet-bleu	blauviolett	violeta azulado
33	091A	violet blue	bleu-violet	violettblau	azul violáceo
32	091B	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
32	091C	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
32	091D	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
33	092A	violet blue	bleu-violet	violettblau	azul violáceo
32	092B	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
32	092C	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
32	092D	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
33	093A	violet blue	bleu-violet	violettblau	azul violáceo
33	093B	violet blue	bleu-violet	violettblau	azul violáceo
33	093C	violet blue	bleu-violet	violettblau	azul violáceo
32	093D	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
33	094A	violet blue	bleu-violet	violettblau	azul violáceo
33	094B	violet blue	bleu-violet	violettblau	azul violáceo
33	094C	violet blue	bleu-violet	violettblau	azul violáceo
32	094D	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
33	095A	violet blue	bleu-violet	violettblau	azul violáceo
33	095B	violet blue	bleu-violet	violettblau	azul violáceo
33	095C	violet blue	bleu-violet	violettblau	azul violáceo
32	095D	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
33	096A	violet blue	bleu-violet	violettblau	azul violáceo
33	096B	violet blue	bleu-violet	violettblau	azul violáceo
33	096C	violet blue	bleu-violet	violettblau	azul violáceo
33	096D	violet blue	bleu-violet	violettblau	azul violáceo
33	097A	violet blue	bleu-violet	violettblau	azul violáceo
32	097B	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
32	097C	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
32	097D	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
35	098A	medium blue	bleumoyen	mittelblau	azulmedio
35	098B	medium blue	bleu moyen	mittelblau	azulmedio
35	098C	medium blue	bleu moyen	mittelblau	azul medio
35	098D	medium blue	bleu moyen	mittelblau	azul medio
36	099A	dark blue	bleu foncé	dunkelblau	azul oscuro
36	099B	dark blue	bleu foncé	dunkelblau	azul oscuro

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35	099C	medium blue	bleu moyen	mittelblau	azul medio
35	099D	medium blue	bleu moyen	mittelblau	azul medio
35	100A	medium blue	bleu moyen	mittelblau	azul medio
35	100B	medium blue	bleu moyen	mittelblau	azul medio
35	100C	medium blue	bleu moyen	mittelblau	azul medio
32	100D	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
35	101A	medium blue	bleu moyen	mittelblau	azul medio
35	101B	medium blue	bleu moyen	mittelblau	azul medio
35	101C	medium blue	bleu moyen	mittelblau	azul medio
34	101D	light blue	bleu clair	hellblau	azul claro
36	102A	dark blue	bleu foncé	dunkelblau	azul oscuro
35	102B	medium blue	bleu moyen	mittelblau	azul medio
35	102C	medium blue	bleu moyen	mittelblau	azul medio
35	102D	medium blue	bleu moyen	mittelblau	azul medio
36	103A	dark blue	bleu foncé	dunkelblau	azul oscuro
36	103B	dark blue	bleu foncé	dunkelblau	azul oscuro
36	103C	dark blue	bleu foncé	dunkelblau	azul oscuro
35	103D	medium blue	bleu moyen	mittelblau	azul medio
35	104A	medium blue	bleu moyen	mittelblau	azul medio
35	104B	medium blue	bleu moyen	mittelblau	azul medio
35	104C	medium blue	bleu moyen	mittelblau	azul medio
34	104D	light blue	bleu clair	hellblau	azul claro
35	105A	medium blue	bleu moyen	mittelblau	azul medio
35	105B	medium blue	bleu moyen	mittelblau	azul medio
35	105C	medium blue	bleu moyen	mittelblau	azul medio
35	105D	medium blue	bleu moyen	mittelblau	azul medio
35	106A	medium blue	bleu moyen	mittelblau	azul medio
34	106B	light blue	bleu clair	hellblau	azul claro
34	106C	light blue	bleu clair	hellblau	azul claro
34	106D	light blue	bleu clair	hellblau	azul claro
35	107A	medium blue	bleu moyen	mittelblau	azul medio
35	107B	medium blue	bleu moyen	mittelblau	azul medio
34	107C	light blue	bleu clair	hellblau	azul claro
34	107D	light blue	bleu clair	hellblau	azul claro
34	108A	light blue	bleu clair	hellblau	azul claro
34	108B	light blue	bleu clair	hellblau	azul claro
34	108C	light blue	bleu clair	hellblau	azul claro
34	108D	light blue	bleu clair	hellblau	azul claro
35	109A	medium blue	bleu moyen	mittelblau	azul medio
35	109B	medium blue	bleu moyen	mittelblau	azul medio
35	109C	medium blue	bleu moyen	mittelblau	azul medio
34	109D	light blue	bleu clair	hellblau	azul claro
35	110A	medium blue	bleu moyen	mittelblau	azul medio
35	110B	medium blue	bleu moyen	mittelblau	azul medio
37	110C	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	110D	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
38	111A	green blue	bleu-vert	grünblau	azul verdoso
38	111B	green blue	bleu-vert	grünblau	azul verdoso
37	111C	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	111D	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
34	112A	light blue	bleu clair	hellblau	azul claro
34	112B	light blue	bleu clair	hellblau	azul claro
37	112C	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	112D	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
38	113A	green blue	bleu-vert	grünblau	azul verdoso
38	113B	green blue	bleu-vert	grünblau	azul verdoso
37	113C	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	113D	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
38	114A	green blue	bleu-vert	grünblau	azul verdoso
38	114B	green blue	bleu-vert	grünblau	azul verdoso
38	114C	green blue	bleu-vert	grünblau	azul verdoso
38	114D	green blue	bleu-vert	grünblau	azul verdoso
38	115A	green blue	bleu-vert	grünblau	azul verdoso
38	115B	green blue	bleu-vert	grünblau	azul verdoso
39	115C	grey blue	bleu-gris	graublau	azul grisáceo
39	115D	grey blue	bleu-gris	graublau	azul grisáceo
38	116A	green blue	bleu-vert	grünblau	azul verdoso

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38	116B	green blue	bleu-vert	grünblau	azul verdoso
38	116C	green blue	bleu-vert	grünblau	azul verdoso
38	116D	green blue	bleu-vert	grünblau	azul verdoso
37	117A	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	117B	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	117C	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	117D	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
38	118A	green blue	bleu-vert	grünblau	azul verdoso
38	118B	green blue	bleu-vert	grünblau	azul verdoso
37	118C	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	118D	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
38	119A	green blue	bleu-vert	grünblau	azul verdoso
39	119B	grey blue	bleu-gris	graublau	azul grisáceo
39	119C	grey blue	bleu-gris	graublau	azul grisáceo
37	119D	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
7	120A	light blue green	vert-bleu clair	hellblaugrün	verde azulado claro
7	120B	light blue green	vert-bleu clair	hellblaugrün	verde azulado claro
7	120C	light blue green	vert-bleu clair	hellblaugrün	verde azulado claro
37	120D	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
38	121A	green blue	bleu-vert	grünblau	azul verdoso
7	121B	light blue green	vert-bleu clair	hellblaugrün	verde azulado claro
37	121C	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	121D	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
39	122A	grey blue	bleu-gris	graublau	azul grisáceo
39	122B	grey blue	bleu-gris	graublau	azul grisáceo
39	122C	grey blue	bleu-gris	graublau	azul grisáceo
37	122D	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
7	123A	light blue green	vert-bleu clair	hellblaugrün	verde azulado claro
7	123B	light blue green	vert-bleu clair	hellblaugrün	verde azulado claro
7	123C	light blue green	vert-bleu clair	hellblaugrün	verde azulado claro
7	123D	light blue green	vert-bleu clair	hellblaugrün	verde azulado claro
3	124A	medium green	vert moyen	mittel grün	verde medio
8	124B	blue green	vert-bleu	blaugrün	verde azulado
7	124C	light blue green	vert-bleu clair	hellblaugrün	verde azulado claro
7	124D	light blue green	vert-bleu clair	hellblaugrün	verde azulado claro
3	125A	medium green	vert moyen	mittel grün	verdemedio
3	125B	medium green	vert moyen	mittel grün	verde medio
8	125C	blue green	vert-bleu	blaugrün	verde azulado
8	125D	blue green	vert-bleu	blaugrün	verde azulado
6	126A	grey green	vert-gris	graugrün	verde grisáceo
6	126B	grey green	vert-gris	graugrün	verde grisáceo
6	126C	grey green	vert-gris	graugrün	verde grisáceo
8	126D	blue green	vert-bleu	blaugrün	verde azulado
6	127A	grey green	vert-gris	graugrün	verde grisáceo
3	127B	medium green	vert moyen	mittel grün	verde medio
3	127C	medium green	vert moyen	mittel grün	verde medio
8	127D	blue green	vert-bleu	blaugrün	verde azulado
3	128A	medium green	vert moyen	mittel grün	verde medio
8	128B	blue green	vert-bleu	blaugrün	verde azulado
8	128C	blue green	vert-bleu	blaugrün	verde azulado
8	128D	blue green	vert-bleu	blaugrün	verde azulado
3	129A	medium green	vert moyen	mittel grün	verde medio
8	129B	blue green	vert-bleu	blaugrün	verde azulado
8	129C	blue green	vert-bleu	blaugrün	verde azulado
8	129D	blue green	vert-bleu	blaugrün	verde azulado
3	130A	medium green	vert moyen	mittel grün	verde medio
3	130B	medium green	vert moyen	mittel grün	verde medio
8	130C	blue green	vert-bleu	blaugrün	verde azulado
8	130D	blue green	vert-bleu	blaugrün	verde azulado
4	131A	dark green	vert foncé	dunkelgrün	verde oscuro
4	131B	dark green	vert foncé	dunkelgrün	verde oscuro
4	131C	dark green	vert foncé	dunkelgrün	verde oscuro
3	131D	medium green	vert moyen	mittel grün	verde medio
4	132A	dark green	vert foncé	dunkelgrün	verde oscuro
4	132B	dark green	vert foncé	dunkelgrün	verde oscuro
3	132C	medium green	vert moyen	mittel grün	verde medio
3	132D	medium green	vert moyen	mittel grün	verde medio

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4	133A	dark green	vert foncé	dunkelgrün	verde oscuro
6	133B	grey green	vert-gris	graugrün	verde grisáceo
6	133C	grey green	vert-gris	graugrün	verde grisáceo
6	133D	grey green	vert-gris	graugrün	verde grisáceo
3	134A	medium green	vert moyen	mittel grün	verde medio
3	134B	medium green	vert moyen	mittel grün	verde medio
3	134C	medium green	vert moyen	mittel grün	verde medio
2	134D	light green	vert clair	hellgrün	verde claro
4	135A	dark green	vert foncé	dunkelgrün	verde oscuro
4	135B	dark green	vert foncé	dunkelgrün	verde oscuro
3	135C	medium green	vert moyen	mittel grün	verde medio
2	135D	light green	vert clair	hellgrün	verde claro
4	136A	dark green	vert foncé	dunkelgrün	verde oscuro
4	136B	dark green	vert foncé	dunkelgrün	verde oscuro
9	136C	brown green	vert-brun	braungrün	verde amarronado
2	136D	light green	vert clair	hellgrün	verde claro
9	137A	brown green	vert-brun	braungrün	verde amarronado
9	137B	brown green	vert-brun	braungrün	verde amarronado
9	137C	brown green	vert-brun	braungrün	verde amarronado
9	137D	brown green	vert-brun	braungrün	verde amarronado
9	138A	brown green	vert-brun	braungrün	verde amarronado
9	138B	brown green	vert-brun	braungrün	verde amarronado
2	138C	light green	vert clair	hellgrün	verde claro
2	138D	light green	vert clair	hellgrün	verde claro
4	139A	dark green	vert foncé	dunkelgrün	verde oscuro
9	139B	brown green	vert-brun	braungrün	verde amarronado
9	139C	brown green	vert-brun	braungrün	verde amarronado
2	139D	light green	vert clair	hellgrün	verde claro
3	140A	medium green	vert moyen	mittel grün	verde medio
3	140B	medium green	vert moyen	mittel grün	verde medio
2	140C	light green	vert clair	hellgrün	verde claro
2	140D	light green	vert clair	hellgrün	verde claro
4	141A	dark green	vert foncé	dunkelgrün	verde oscuro
4	141B	dark green	vert foncé	dunkelgrün	verde oscuro
4	141C	dark green	vert foncé	dunkelgrün	verde oscuro
2	141D	light green	vert clair	hellgrün	verde claro
3	142A	medium green	vert moyen	mittel grün	verde medio
2	142B	light green	vert clair	hellgrün	verde claro
2	142C	light green	vert clair	hellgrün	verde claro
2	142D	light green	vert clair	hellgrün	verde claro
4	143A	dark green	vert foncé	dunkelgrün	verde oscuro
4	143B	dark green	vert foncé	dunkelgrün	verde oscuro
4	143C	dark green	vert foncé	dunkelgrün	verde oscuro
2	143D	light green	vert clair	hellgrün	verde claro
4	144A	dark green	vert foncé	dunkelgrün	verde oscuro
2	144B	light green	vert clair	hellgrün	verde claro
2	144C	light green	vert clair	hellgrün	verde claro
2	144D	light green	vert clair	hellgrün	verde claro
2	145A	light green	vert clair	hellgrün	verde claro
2	145B	light green	vert clair	hellgrün	verde claro
2	145C	light green	vert clair	hellgrün	verde claro
2	145D	light green	vert clair	hellgrün	verde claro
9	146A	brown green	vert-brun	braungrün	verde amarronado
9	146B	brown green	vert-brun	braungrün	verde amarronado
9	146C	brown green	vert-brun	braungrün	verde amarronado
9	146D	brown green	vert-brun	braungrün	verde amarronado
9	147A	brown green	vert-brun	braungrün	verde amarronado
9	147B	brown green	vert-brun	braungrün	verde amarronado
9	147C	brown green	vert-brun	braungrün	verde amarronado
9	147D	brown green	vert-brun	braungrün	verde amarronado
9	148A	brown green	vert-brun	braungrün	verde amarronado
9	148B	brown green	vert-brun	braungrün	verde amarronado
9	148C	brown green	vert-brun	braungrün	verde amarronado
9	148D	brown green	vert-brun	braungrün	verde amarronado
5	149A	yellow green	vert-jaune	gelbgrün	verde amarillento
2	149B	light green	vert clair	hellgrün	verde claro
2	149C	light green	vert clair	hellgrün	verde claro

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2	149D	light green	vert clair	hellgrün	verde claro
5	150A	yellow green	vert-jaune	gelbgrün	verde amarillento
5	150B	yellow green	vert-jaune	gelbgrün	verde amarillento
5	150C	yellow green	vert-jaune	gelbgrün	verde amarillento
5	150D	yellow green	vert-jaune	gelbgrün	verde amarillento
47	151A	green brown	brun-vert	grünbraun	marrón verdoso
47	151B	green brown	brun-vert	grünbraun	marrón verdoso
47	151C	green brown	brun-vert	grünbraun	marrón verdoso
47	151D	green brown	brun-vert	grünbraun	marrón verdoso
47	152A	green brown	brun-vert	grünbraun	marrón verdoso
47	152B	green brown	brun-vert	grünbraun	marrón verdoso
47	152C	green brown	brun-vert	grünbraun	marrón verdoso
47	152D	green brown	brun-vert	grünbraun	marrón verdoso
47	153A	green brown	brun-vert	grünbraun	marrón verdoso
47	153B	green brown	brun-vert	grünbraun	marrón verdoso
47	153C	green brown	brun-vert	grünbraun	marrón verdoso
47	153D	green brown	brun-vert	grünbraun	marrón verdoso
5	154A	yellow green	vert-jaune	gelbgrün	verde amarillento
5	154B	yellow green	vert-jaune	gelbgrün	verde amarillento
5	154C	yellow green	vert-jaune	gelbgrün	verde amarillento
5	154D	yellow green	vert-jaune	gelbgrün	verde amarillento
1	155A	white	blanc	weiss	blanco
1	155B	white	blanc	weiss	blanco
1	155C	white	blanc	weiss	blanco
1	155D	white	blanc	weiss	blanco
48	156A	grey	gris	grau	gris
48	156B	grey	gris	grau	gris
48	156C	grey	gris	grau	gris
48	156D	grey	gris	grau	gris
48	157A	grey	gris	grau	gris
48	157B	grey	gris	grau	gris
48	157C	grey	gris	grau	gris
1	157D	white	blanc	weiss	blanco
43	158A	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	158B	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	158C	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	158D	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	159A	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	159B	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	159C	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	159D	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	160A	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	160B	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	160C	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	160D	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	161A	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	161B	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	161C	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	161D	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	162A	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	162B	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	162C	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	162D	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
44	163A	yellow brown	brun-jaune	gelbbraun	marrón amarillento
43	163B	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	163C	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	163D	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
44	164A	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	164B	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	164C	yellow brown	brun-jaune	gelbbraun	marrón amarillento
43	164D	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
41	165A	medium brown	brun moyen	mittelbraun	marrón medio
44	165B	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	165C	yellow brown	brun-jaune	gelbbraun	marrón amarillento
43	165D	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
41	166A	medium brown	brun moyen	mittelbraun	marrón medio
41	166B	medium brown	brun moyen	mittelbraun	marrón medio

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40	166C	light brown	brun clair	hellbraun	marrón claro
40	166D	light brown	brun clair	hellbraun	marrón claro
44	167A	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	167B	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	167C	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	167D	yellow brown	brun-jaune	gelbbraun	marrón amarillento
45	168A	orange brown	brun-orange	orangebraun	marrón anaranjado
45	168B	orange brown	brun-orange	orangebraun	marrón anaranjado
44	168C	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	168D	yellow brown	brun-jaune	gelbbraun	marrón amarillento
45	169A	orange brown	brun-orange	orangebraun	marrón anaranjado
45	169B	orange brown	brun-orange	orangebraun	marrón anaranjado
45	169C	orange brown	brun-orange	orangebraun	marrón anaranjado
45	169D	orange brown	brun-orange	orangebraun	marrón anaranjado
45	170A	orange brown	brun-orange	orangebraun	marrón anaranjado
45	170B	orange brown	brun-orange	orangebraun	marrón anaranjado
45	170C	orange brown	brun-orange	orangebraun	marrón anaranjado
45	170D	orange brown	brun-orange	orangebraun	marrón anaranjado
41	171A	medium brown	brun moyen	mittelbraun	marrón medio
45	171B	orange brown	brun-orange	orangebraun	marrón anaranjado
45	171C	orange brown	brun-orange	orangebraun	marrón anaranjado
45	171D	orange brown	brun-orange	orangebraun	marrón anaranjado
41	172A	medium brown	brun moyen	mittelbraun	marrón medio
41	172B	medium brown	brun moyen	mittelbraun	marrón medio
45	172C	orange brown	brun-orange	orangebraun	marrón anaranjado
45	172D	orange brown	brun-orange	orangebraun	marrón anaranjado
41	173A	medium brown	brun moyen	mittelbraun	marrón medio
45	173B	orange brown	brun-orange	orangebraun	marrón anaranjado
40	173C	light brown	brun clair	hellbraun	marrón claro
40	173D	light brown	brun clair	hellbraun	marrón claro
41	174A	medium brown	brun moyen	mittelbraun	marrón medio
40	174B	light brown	brun clair	hellbraun	marrón claro
40	174C	light brown	brun clair	hellbraun	marrón claro
40	174D	light brown	brun clair	hellbraun	marrón claro
41	175A	medium brown	brun moyen	mittelbraun	marrón medio
41	175B	medium brown	brun moyen	mittelbraun	marrón medio
41	175C	medium brown	brun moyen	mittelbraun	marrón medio
41	175D	medium brown	brun moyen	mittelbraun	marrón medio
41	176A	medium brown	brun moyen	mittelbraun	marrón medio
41	176B	medium brown	brun moyen	mittelbraun	marrón medio
41	176C	medium brown	brun moyen	mittelbraun	marrón medio
40	176D	light brown	brun clair	hellbraun	marrón claro
41	177A	medium brown	brun moyen	mittelbraun	marrón medio
41	177B	medium brown	brun moyen	mittelbraun	marrón medio
40	177C	light brown	brun clair	hellbraun	marrón claro
40	177D	light brown	brun clair	hellbraun	marrón claro
26	178A	brown purple	pourpre brun	braunpurpur	púrpura amarronado
26	178B	brown purple	pourpre brun	braunpurpur	púrpura amarronado
25	178C	brown red	rouge-brun	braunrot	rojo amarronado
25	178D	brown red	rouge-brun	braunrot	rojo amarronado
25	179A	brown red	rouge-brun	braunrot	rojo amarronado
25	179B	brown red	rouge-brun	braunrot	rojo amarronado
45	179C	orange brown	brun-orange	orangebraun	marrón anaranjado
15	179D	orange pink	rose orangé	orangerosa	rosa anaranjado
25	180A	brown red	rouge-brun	braunrot	rojo amarronado
25	180B	brown red	rouge-brun	braunrot	rojo amarronado
25	180C	brown red	rouge-brun	braunrot	rojo amarronado
25	180D	brown red	rouge-brun	braunrot	rojo amarronado
25	181A	brown red	rouge-brun	braunrot	rojo amarronado
25	181B	brown red	rouge-brun	braunrot	rojo amarronado
25	181C	brown red	rouge-brun	braunrot	rojo amarronado
25	181D	brown red	rouge-brun	braunrot	rojo amarronado
25	182A	brown red	rouge-brun	braunrot	rojo amarronado
25	182B	brown red	rouge-brun	braunrot	rojo amarronado
25	182C	brown red	rouge-brun	braunrot	rojo amarronado
25	182D	brown red	rouge-brun	braunrot	rojo amarronado
26	183A	brown purple	pourpre brun	braunpurpur	púrpura amarronado

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26	183B	brown purple	pourpre brun	braunpurpur	púrpura amarronado
26	183C	brown purple	pourpre brun	braunpurpur	púrpura amarronado
26	183D	brown purple	pourpre brun	braunpurpur	púrpura amarronado
26	184A	brown purple	pourpre brun	braunpurpur	púrpura amarronado
26	184B	brown purple	pourpre brun	braunpurpur	púrpura amarronado
26	184C	brown purple	pourpre brun	braunpurpur	púrpura amarronado
26	184D	brown purple	pourpre brun	braunpurpur	púrpura amarronado
24	185A	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
26	185B	brown purple	pourpre brun	braunpurpur	púrpura amarronado
26	185C	brown purple	pourpre brun	braunpurpur	púrpura amarronado
26	185D	brown purple	pourpre brun	braunpurpur	púrpura amarronado
26	186A	brown purple	pourpre brun	braunpurpur	púrpura amarronado
26	186B	brown purple	pourpre brun	braunpurpur	púrpura amarronado
19	186C	blue pink	rose-bleu	blaurosa	rosa azulado
19	186D	blue pink	rose-bleu	blaurosa	rosa azulado
26	187A	brown purple	pourpre brun	braunpurpur	púrpura amarronado
24	187B	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
24	187C	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
24	187D	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
49	188A	green grey	gris-vert	grüngrau	gris verdoso
49	188B	green grey	gris-vert	grüngrau	gris verdoso
49	188C	green grey	gris-vert	grüngrau	gris verdoso
49	188D	green grey	gris-vert	grüngrau	gris verdoso
9	189A	brown green	vert-brun	braungrün	verde amarronado
49	189B	green grey	gris-vert	grüngrau	gris verdoso
49	189C	green grey	gris-vert	grüngrau	gris verdoso
49	189D	green grey	gris-vert	grüngrau	gris verdoso
49	190A	green grey	gris-vert	grüngrau	gris verdoso
49	190B	green grey	gris-vert	grüngrau	gris verdoso
49	190C	green grey	gris-vert	grüngrau	gris verdoso
49	190D	green grey	gris-vert	grüngrau	gris verdoso
9	191A	brown green	vert-brun	braungrün	verde amarronado
9	191B	brown green	vert-brun	braungrün	verde amarronado
49	191C	green grey	gris-vert	grüngrau	gris verdoso
49	191D	green grey	gris-vert	grüngrau	gris verdoso
49	192A	green grey	gris-vert	grüngrau	gris verdoso
49	192B	green grey	gris-vert	grüngrau	gris verdoso
49	192C	green grey	gris-vert	grüngrau	gris verdoso
49	192D	green grey	gris-vert	grüngrau	gris verdoso
9	193A	brown green	vert-brun	braungrün	verde amarronado
9	193B	brown green	vert-brun	braungrün	verde amarronado
49	193C	green grey	gris-vert	grüngrau	gris verdoso
49	193D	green grey	gris-vert	grüngrau	gris verdoso
9	194A	brown green	vert-brun	braungrün	verde amarronado
9	194B	brown green	vert-brun	braungrün	verde amarronado
9	194C	brown green	vert-brun	braungrün	verde amarronado
48	194D	grey	gris	grau	gris
48	195A	grey	gris	grau	gris
48	195B	grey	gris	grau	gris
48	195C	grey	gris	grau	gris
48	195D	grey	gris	grau	gris
48	196A	grey	gris	grau	gris
48	196B	grey	gris	grau	gris
48	196C	grey	gris	grau	gris
48	196D	grey	gris	grau	gris
48	197A	grey	gris	grau	gris
48	197B	grey	gris	grau	gris
48	197C	grey	gris	grau	gris
48	197D	grey	gris	grau	gris
48	198A	grey	gris	grau	gris
48	198B	grey	gris	grau	gris
48	198C	grey	gris	grau	gris
48	198D	grey	gris	grau	gris
46	199A	grey brown	brun-gris	graubraun	marrón grisáceo
46	199B	grey brown	brun-gris	graubraun	marrón grisáceo
46	199C	grey brown	brun-gris	graubraun	marrón grisáceo
46	199D	grey brown	brun-gris	graubraun	marrón grisáceo

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42	200A	dark brown	brun foncé	dunkelbraun	marrón oscuro
42	200B	dark brown	brun foncé	dunkelbraun	marrón oscuro
42	200C	dark brown	brun foncé	dunkelbraun	marrón oscuro
41	200D	medium brown	brun moyen	mittelbraun	marrón medio
48	201A	grey	gris	grau	gris
48	201B	grey	gris	grau	gris
48	201C	grey	gris	grau	gris
48	201D	grey	gris	grau	gris
50	202A	black	noir	schwarz	negro
48	202B	grey	gris	grau	gris
48	202C	grey	gris	grau	gris
48	202D	grey	gris	grau	gris
50	203 A	black	noir	schwarz	negro
50	203 B	black	noir	schwarz	negro
50	203 C	black	noir	schwarz	negro
50	203 D	black	noir	schwarz	negro
20	N 025A	orange red	rouge orangé	orangerot	rojo anaranjado
14	N 025B	orange	orange	orange	naranja
14	N 025C	orange	orange	orange	naranja
13	N 025D	yellow orange	orangé jaune	gelborange	naranja amarillento
21	N 030A	red	rouge	rot	rojo
20	N 030B	orange red	rouge orangé	orangerot	rojo anaranjado
20	N 030C	orange red	rouge orangé	orangerot	rojo anaranjado
14	N 030D	orange	orange	orange	naranja
24	N 034A	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
21	N 034B	red	rouge	rot	rojo
22	N 034C	dark pink red	rouge-rose foncé	dunkelrosarot	rojo rosado oscuro
45	N 034D	orange brown	brun-orange	orangebraun	marrón anaranjado
23	N 057A	purple red	rouge pourpre	purpurrot	rojo purpúreo
23	N 057B	purple red	rouge pourpre	purpurrot	rojo purpúreo
23	N 057C	purple red	rouge pourpre	purpurrot	rojo purpúreo
23	N 057D	purple red	rouge pourpre	purpurrot	rojo purpúreo
23	N 066A	purple red	rouge pourpre	purpurrot	rojo purpúreo
23	N 066B	purple red	rouge pourpre	purpurrot	rojo purpúreo
19	N 066C	blue pink	rose-bleu	blaurosa	rosa azulado
19	N 066D	blue pink	rose-bleu	blaurosa	rosa azulado
27	N 074A	purple	pourpre	purpurn	púrpura
27	N 074B	purple	pourpre	purpurn	púrpura
19	N 074C	blue pink	rose-bleu	blaurosa	rosa azulado
19	N 074D	blue pink	rose-bleu	blaurosa	rosa azulado
26	N 077A	brown purple	pourpre brun	braunpurpur	púrpura amarronado
28	N 077B	violet	violet	violett	violeta
29	N 077C	dark violet	violet foncé	dunkelviolet	violeta oscuro
28	N 077D	violet	violet	violett	violeta
28	N 078A	violet	violet	violett	violeta
28	N 078B	violet	violet	violett	violeta
28	N 078C	violet	violet	violett	violeta
28	N 078D	violet	violet	violett	violeta
29	N 079A	dark violet	violet foncé	dunkelviolet	violeta oscuro
29	N 079B	dark violet	violet foncé	dunkelviolet	violeta oscuro
27	N 079C	purple	pourpre	purpurn	púrpura
28	N 079D	violet	violet	violett	violeta
28	N 080A	violet	violet	violett	violeta
28	N 080B	violet	violet	violett	violeta
28	N 080C	violet	violet	violett	violeta
28	N 080D	violet	violet	violett	violeta
28	N 081A	violet	violet	violett	violeta
28	N 081B	violet	violet	violett	violeta
28	N 081C	violet	violet	violett	violeta
28	N 081D	violet	violet	violett	violeta
28	N 082A	violet	violet	violett	violeta
31	N 082B	blue violet	violet-bleu	blauviolett	violeta azulado
31	N 082C	blue violet	violet-bleu	blauviolett	violeta azulado
31	N 082D	blue violet	violet-bleu	blauviolett	violeta azulado
31	N 087A	blue violet	violet-bleu	blauviolett	violeta azulado
31	N 087B	blue violet	violet-bleu	blauviolett	violeta azulado
31	N 087C	blue violet	violet-bleu	blauviolett	violeta azulado

UPOV Group No.	No. RHS	English	français	deutsch	español
31	N 087D	blue violet	violet-bleu	blauviolett	violeta azulado
31	N 088A	blue violet	violet-bleu	blauviolett	violeta azulado
31	N 088B	blue violet	violet-bleu	blauviolett	violeta azulado
31	N 088C	blue violet	violet-bleu	blauviolett	violeta azulado
31	N 088D	blue violet	violet-bleu	blauviolett	violeta azulado
33	N 089A	violet blue	bleu-violet	violettblau	azul violáceo
33	N 089B	violet blue	bleu-violet	violettblau	azul violáceo
31	N 089C	blue violet	violet-bleu	blauviolett	violeta azulado
31	N 089D	blue violet	violet-bleu	blauviolett	violeta azulado
29	N 092A	dark violet	violet foncé	dunkelviolet	violeta oscuro
33	N 092B	violet blue	bleu-violet	violettblau	azul violáceo
33	N 092C	violet blue	bleu-violet	violettblau	azul violáceo
29	N 092D	dark violet	violet foncé	dunkelviolet	violeta oscuro
35	N 109A	medium blue	bleu moyen	mittelblau	azul medio
35	N 109B	medium blue	bleu moyen	mittelblau	azul medio
35	N 109C	medium blue	bleu moyen	mittelblau	azul medio
34	N 109D	light blue	bleu clair	hellblau	azul claro
4	N 134A	dark green	vert foncé	dunkelgrün	verde oscuro
4	N 134B	dark green	vert foncé	dunkelgrün	verde oscuro
3	N 134C	medium green	vert moyen	mittel grün	verde medio
3	N 134D	medium green	vert moyen	mittel grün	verde medio
9	N 137A	brown green	vert-brun	braungrün	verde amarronado
9	N 137B	brown green	vert-brun	braungrün	verde amarronado
9	N 137C	brown green	vert-brun	braungrün	verde amarronado
9	N 137D	brown green	vert-brun	braungrün	verde amarronado
4	N 138A	dark green	vert foncé	dunkelgrün	verde oscuro
9	N 138B	brown green	vert-brun	braungrün	verde amarronado
9	N 138C	brown green	vert-brun	braungrün	verde amarronado
9	N 138D	brown green	vert-brun	braungrün	verde amarronado
2	N 144A	light green	vert clair	hellgrün	verde claro
2	N 144B	light green	vert clair	hellgrün	verde claro
2	N 144C	light green	vert clair	hellgrün	verde claro
2	N 144D	light green	vert clair	hellgrün	verde claro
1	N 155A	white	blanc	weiss	blanco
1	N 155B	white	blanc	weiss	blanco
1	N 155C	white	blanc	weiss	blanco
1	N 155D	white	blanc	weiss	blanco
45	N 163A	orange brown	brun-orange	orangebraun	marrón anaranjado
45	N 163B	orange brown	brun-orange	orangebraun	marrón anaranjado
44	N 163C	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	N 163D	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	N 167A	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	N 167B	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	N 167C	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	N 167D	yellow brown	brun-jaune	gelbbraun	marrón amarillento
40	N 170A	light brown	brun clair	hellbraun	marrón claro
40	N 170B	light brown	brun clair	hellbraun	marrón claro
40	N 170C	light brown	brun clair	hellbraun	marrón claro
45	N 170D	orange brown	brun-orange	orangebraun	marrón anaranjado
45	N 172A	orange brown	brun-orange	orangebraun	marrón anaranjado
45	N 172B	orange brown	brun-orange	orangebraun	marrón anaranjado
45	N 172C	orange brown	brun-orange	orangebraun	marrón anaranjado
44	N 172D	yellow brown	brun-jaune	gelbbraun	marrón amarillento
50	N 186A	black	noir	schwarz	negro
50	N 186B	black	noir	schwarz	negro
26	N 186C	brown purple	pourpre brun	braunpurpur	púrpura amarronado
26	N 186D	brown purple	pourpre brun	braunpurpur	púrpura amarronado
50	N 187A	black	noir	schwarz	negro
48	N 187B	grey	gris	grau	gris
48	N 187C	grey	gris	grau	gris
48	N 187D	grey	gris	grau	gris
49	N 189A	green grey	gris-vert	grüngrau	gris verdoso
49	N 189B	green grey	gris-vert	grüngrau	gris verdoso
49	N 189C	green grey	gris-vert	grüngrau	gris verdoso
49	N 189D	green grey	gris-vert	grüngrau	gris verdoso
46	N 199A	grey brown	brun-gris	graubraun	marrón grisáceo
42	N 199B	dark brown	brun foncé	dunkelbraun	marrón oscuro

UPOV Group No.	No. RHS	English	français	deutsch	español
46	N 199C	grey brown	brun-gris	graubraun	marrón grisáceo
46	N 199D	grey brown	brun-gris	graubraun	marrón grisáceo
42	N 200A	dark brown	brun foncé	dunkelbraun	marrón oscuro
48	N 200B	grey	gris	grau	gris
48	N 200C	grey	gris	grau	gris
48	N 200D	grey	gris	grau	gris
1	NN 155A	white	blanc	weiss	blanco
1	NN 155B	white	blanc	weiss	blanco
1	NN 155C	white	blanc	weiss	blanco
1	NN 155D	white	blanc	weiss	blanco

[Appendix II follows]

APPENDIX II TO ANNEX

RHS Colors contained in each UPOV Color Group

UPOV COLOR GROUPS ACCORDING TO RHS COLOUR CHART REFERENCE
(1986, 1995, 2001, AND 2007 EDITIONS)

UPOV Group No.	No. RHS	English	français	deutsch	español
1	155A	white	blanc	weiss	blanco
1	155B	white	blanc	weiss	blanco
1	155C	white	blanc	weiss	blanco
1	155D	white	blanc	weiss	blanco
1	N 155A	white	blanc	weiss	blanco
1	N 155B	white	blanc	weiss	blanco
1	N 155C	white	blanc	weiss	blanco
1	N 155D	white	blanc	weiss	blanco
1	NN 155A	white	blanc	weiss	blanco
1	NN 155B	white	blanc	weiss	blanco
1	NN 155C	white	blanc	weiss	blanco
1	NN 155D	white	blanc	weiss	blanco
1	157D	white	blanc	weiss	blanco
2	134D	light green	vert clair	hellgrün	verde claro
2	135D	light green	vert clair	hellgrün	verde claro
2	136D	light green	vert clair	hellgrün	verde claro
2	138C	light green	vert clair	hellgrün	verde claro
2	138D	light green	vert clair	hellgrün	verde claro
2	139D	light green	vert clair	hellgrün	verde claro
2	140C	light green	vert clair	hellgrün	verde claro
2	140D	light green	vert clair	hellgrün	verde claro
2	141D	light green	vert clair	hellgrün	verde claro
2	142B	light green	vert clair	hellgrün	verde claro
2	142C	light green	vert clair	hellgrün	verde claro
2	142D	light green	vert clair	hellgrün	verde claro
2	143D	light green	vert clair	hellgrün	verde claro
2	144B	light green	vert clair	hellgrün	verde claro
2	144C	light green	vert clair	hellgrün	verde claro
2	144D	light green	vert clair	hellgrün	verde claro
2	N 144A	light green	vert clair	hellgrün	verde claro
2	N 144B	light green	vert clair	hellgrün	verde claro
2	N 144C	light green	vert clair	hellgrün	verde claro
2	N 144D	light green	vert clair	hellgrün	verde claro
2	145A	light green	vert clair	hellgrün	verde claro
2	145B	light green	vert clair	hellgrün	verde claro
2	145C	light green	vert clair	hellgrün	verde claro
2	145D	light green	vert clair	hellgrün	verde claro
2	149B	light green	vert clair	hellgrün	verde claro
2	149C	light green	vert clair	hellgrün	verde claro
2	149D	light green	vert clair	hellgrün	verde claro
3	124A	medium green	vert moyen	mittel grün	verde medio
3	125A	medium green	vert moyen	mittel grün	verdemedio
3	125B	medium green	vert moyen	mittel grün	verde medio
3	127B	medium green	vert moyen	mittel grün	verde medio
3	127C	medium green	vert moyen	mittel grün	verde medio
3	128A	medium green	vert moyen	mittel grün	verde medio
3	129A	medium green	vert moyen	mittel grün	verde medio
3	130A	medium green	vert moyen	mittel grün	verde medio
3	130B	medium green	vert moyen	mittel grün	verde medio
3	131D	medium green	vert moyen	mittel grün	verde medio
3	132C	medium green	vert moyen	mittel grün	verde medio
3	132D	medium green	vert moyen	mittel grün	verde medio
3	134A	medium green	vert moyen	mittel grün	verde medio
3	134B	medium green	vert moyen	mittel grün	verde medio
3	134C	medium green	vert moyen	mittel grün	verde medio
3	N 134C	medium green	vert moyen	mittel grün	verde medio
3	N 134D	medium green	vert moyen	mittel grün	verde medio
3	135C	medium green	vert moyen	mittel grün	verde medio
3	140A	medium green	vert moyen	mittel grün	verde medio

UPOV Group No.	No. RHS	English	français	deutsch	español
3	140B	medium green	vert moyen	mittel grün	verde medio
3	142A	medium green	vert moyen	mittel grün	verde medio
4	131A	dark green	vert foncé	dunkelgrün	verde oscuro
4	131B	dark green	vert foncé	dunkelgrün	verde oscuro
4	131C	dark green	vert foncé	dunkelgrün	verde oscuro
4	132A	dark green	vert foncé	dunkelgrün	verde oscuro
4	132B	dark green	vert foncé	dunkelgrün	verde oscuro
4	133A	dark green	vert foncé	dunkelgrün	verde oscuro
4	N 134A	dark green	vert foncé	dunkelgrün	verde oscuro
4	N 134B	dark green	vert foncé	dunelgrün	verde oscuro
4	135A	dark green	vert foncé	dunkelgrün	verde oscuro
4	135B	dark green	vert foncé	dunkelgrün	verde oscuro
4	136A	dark green	vert foncé	dunkelgrün	verde oscuro
4	136B	dark green	vert foncé	dunkelgrün	verde oscuro
4	N 138A	dark green	vert foncé	dunkelgrün	verde oscuro
4	139A	dark green	vert foncé	dunkelgrün	verde oscuro
4	141A	dark green	vert foncé	dunkelgrün	verde oscuro
4	141B	dark green	vert foncé	dunkelgrün	verde oscuro
4	141C	dark green	vert foncé	dunkelgrün	verde oscuro
4	143A	dark green	vert foncé	dunkelgrün	verde oscuro
4	143B	dark green	vert foncé	dunkelgrün	verde oscuro
4	143C	dark green	vert foncé	dunkelgrün	verde oscuro
4	144A	dark green	vert foncé	dunkelgrün	verde oscuro
5	001B	yellow green	vert-jaune	gelbgrün	verde amarillento
5	001C	yellow green	vert-jaune	gelbgrün	verde amarillento
5	001D	yellow green	vert-jaune	gelbgrün	verde amarillento
5	002C	yellow green	vert-jaune	gelbgrün	verde amarillento
5	002D	yellow green	vert-jaune	gelbgrün	verde amarillento
5	003D	yellow green	vert-jaune	gelbgrün	verde amarillento
5	004C	yellow green	vert-jaune	gelbgrün	verde amarillento
5	149A	yellow green	vert-jaune	gelbgrün	verde amarillento
5	150A	yellow green	vert-jaune	gelbgrün	verde amarillento
5	150B	yellow green	vert-jaune	gelbgrün	verde amarillento
5	150C	yellow green	vert-jaune	gelbgrün	verde amarillento
5	150D	yellow green	vert-jaune	gelbgrün	verde amarillento
5	154A	yellow green	vert-jaune	gelbgrün	verde amarillento
5	154B	yellow green	vert-jaune	gelbgrün	verde amarillento
5	154C	yellow green	vert-jaune	gelbgrün	verde amarillento
5	154D	yellow green	vert-jaune	gelbgrün	verde amarillento
6	126A	grey green	vert-gris	graugrün	verde grisáceo
6	126B	grey green	vert-gris	graugrün	verde grisáceo
6	126C	grey green	vert-gris	graugrün	verde grisáceo
6	127A	grey green	vert-gris	graugrün	verde grisáceo
6	133B	grey green	vert-gris	graugrün	verde grisáceo
6	133C	grey green	vert-gris	graugrün	verde grisáceo
6	133D	grey green	vert-gris	graugrün	verde grisáceo
7	120A	light blue green	vert-bleu clair	hellblaugrün	verde azulado claro
7	120B	light blue green	vert-bleu clair	hellblaugrün	verde azulado claro
7	120C	light blue green	vert-bleu clair	hellblaugrün	verde azulado claro
7	121B	light blue green	vert-bleu clair	hellblaugrün	verde azulado claro
7	123A	light blue green	vert-bleu clair	hellblaugrün	verde azulado claro
7	123B	light blue green	vert-bleu clair	hellblaugrün	verde azulado claro
7	123C	light blue green	vert-bleu clair	hellblaugrün	verde azulado claro
7	123D	light blue green	vert-bleu clair	hellblaugrün	verde azulado claro
7	124C	light blue green	vert-bleu clair	hellblaugrün	verde azulado claro
7	124D	light blue green	vert-bleu clair	hellblaugrün	verde azulado claro
8	124B	blue green	vert-bleu	blaugrün	verde azulado
8	125C	blue green	vert-bleu	blaugrün	verde azulado
8	125D	blue green	vert-bleu	blaugrün	verde azulado
8	126D	blue green	vert-bleu	blaugrün	verde azulado
8	127D	blue green	vert-bleu	blaugrün	verde azulado
8	128B	blue green	vert-bleu	blaugrün	verde azulado
8	128C	blue green	vert-bleu	blaugrün	verde azulado
8	128D	blue green	vert-bleu	blaugrün	verde azulado
8	129B	blue green	vert-bleu	blaugrün	verde azulado
8	129C	blue green	vert-bleu	blaugrün	verde azulado
8	129D	blue green	vert-bleu	blaugrün	verde azulado

UPOV Group No.	No. RHS	English	français	deutsch	español
8	130C	blue green	vert-bleu	blaugrün	verde azulado
8	130D	blue green	vert-bleu	blaugrün	verde azulado
9	136C	brown green	vert-brun	braungrün	verde amarronado
9	137A	brown green	vert-brun	braungrün	verde amarronado
9	137B	brown green	vert-brun	braungrün	verde amarronado
9	137C	brown green	vert-brun	braungrün	verde amarronado
9	137D	brown green	vert-brun	braungrün	verde amarronado
9	N 137A	brown green	vert-brun	braungrün	verde amarronado
9	N 137B	brown green	vert-brun	braungrün	verde amarronado
9	N 137C	brown green	vert-brun	braungrün	verde amarronado
9	N 137D	brown green	vert-brun	braungrün	verde amarronado
9	138A	brown green	vert-brun	braungrün	verde amarronado
9	138B	brown green	vert-brun	braungrün	verde amarronado
9	N 138B	brown green	vert-brun	braungrün	verde amarronado
9	N 138C	brown green	vert-brun	braungrün	verde amarronado
9	N 138D	brown green	vert-brun	braungrün	verde amarronado
9	139B	brown green	vert-brun	braungrün	verde amarronado
9	139C	brown green	vert-brun	braungrün	verde amarronado
9	146A	brown green	vert-brun	braungrün	verde amarronado
9	146B	brown green	vert-brun	braungrün	verde amarronado
9	146C	brown green	vert-brun	braungrün	verde amarronado
9	146D	brown green	vert-brun	braungrün	verde amarronado
9	147A	brown green	vert-brun	braungrün	verde amarronado
9	147B	brown green	vert-brun	braungrün	verde amarronado
9	147C	brown green	vert-brun	braungrün	verde amarronado
9	147D	brown green	vert-brun	braungrün	verde amarronado
9	148A	brown green	vert-brun	braungrün	verde amarronado
9	148B	brown green	vert-brun	braungrün	verde amarronado
9	148C	brown green	vert-brun	braungrün	verde amarronado
9	148D	brown green	vert-brun	braungrün	verde amarronado
9	189A	brown green	vert-brun	braungrün	verde amarronado
9	191A	brown green	vert-brun	braungrün	verde amarronado
9	191B	brown green	vert-brun	braungrün	verde amarronado
9	193A	brown green	vert-brun	braungrün	verde amarronado
9	193B	brown green	vert-brun	braungrün	verde amarronado
9	194A	brown green	vert-brun	braungrün	verde amarronado
9	194B	brown green	vert-brun	braungrün	verde amarronado
9	194C	brown green	vert-brun	braungrün	verde amarronado
10	004D	light yellow	jaune clair	hellgelb	amarillo claro
10	005D	light yellow	jaune clair	hellgelb	amarillo claro
10	006D	light yellow	jaune clair	hellgelb	amarillo claro
10	008B	light yellow	jaune clair	hellgelb	amarillo claro
10	008C	light yellow	jaune clair	hellgelb	amarillo claro
10	008D	light yellow	jaune clair	hellgelb	amarillo claro
10	009C	light yellow	jaune clair	hellgelb	amarillo claro
10	009D	light yellow	jaune clair	hellgelb	amarillo claro
10	010A	light yellow	jaune clair	hellgelb	amarillo claro
10	010B	light yellow	jaune clair	hellgelb	amarillo claro
10	010C	light yellow	jaune clair	hellgelb	amarillo claro
10	010D	light yellow	jaune clair	hellgelb	amarillo claro
10	011B	light yellow	jaune clair	hellgelb	amarillo claro
10	011C	light yellow	jaune clair	hellgelb	amarillo claro
10	012C	light yellow	jaune clair	hellgelb	amarillo claro
10	012D	light yellow	jaune clair	hellgelb	amarillo claro
10	013D	light yellow	jaune clair	hellgelb	amarillo claro
10	014D	light yellow	jaune clair	hellgelb	amarillo claro
10	015D	light yellow	jaune clair	hellgelb	amarillo claro
10	016D	light yellow	jaune clair	hellgelb	amarillo claro
11	001A	yellow	jaune	gelb	amarillo
11	002A	yellow	jaune	gelb	amarillo
11	002B	yellow	jaune	gelb	amarillo
11	003A	yellow	jaune	gelb	amarillo
11	003B	yellow	jaune	gelb	amarillo
11	003C	yellow	jaune	gelb	amarillo
11	004A	yellow	jaune	gelb	amarillo
11	004B	yellow	jaune	gelb	amarillo
11	005A	yellow	jaune	gelb	amarillo

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11	005B	yellow	jaune	gelb	amarillo
11	005C	yellow	jaune	gelb	amarillo
11	006A	yellow	jaune	gelb	amarillo
11	006B	yellow	jaune	gelb	amarillo
11	006C	yellow	jaune	gelb	amarillo
11	007A	yellow	jaune	gelb	amarillo
11	007B	yellow	jaune	gelb	amarillo
11	007C	yellow	jaune	gelb	amarillo
11	007D	yellow	jaune	gelb	amarillo
11	008A	yellow	jaune	gelb	amarillo
11	009A	yellow	jaune	gelb	amarillo
11	009B	yellow	jaune	gelb	amarillo
11	012A	yellow	jaune	gelb	amarillo
11	012B	yellow	jaune	gelb	amarillo
12	011D	light yellow orange	orangé jaune clair	hellgelborange	naranja amarillento claro
12	018B	light yellow orange	orangé jaune clair	hellgelborange	naranja amarillento claro
12	018C	light yellow orange	orangé jaune clair	hellgelborange	naranja amarillento claro
12	018D	light yellow orange	orangé jaune clair	hellgelborange	naranja amarillento claro
12	019B	light yellow orange	orangé jaune clair	hellgelborange	naranja amarillento claro
12	019C	light yellow orange	orangé jaune clair	hellgelborange	naranja amarillento claro
12	019D	light yellow orange	orangé jaune clair	hellgelborange	naranja amarillento claro
12	020C	light yellow orange	orangé jaune clair	hellgelborange	naranja amarillento claro
12	020D	light yellow orange	orangé jaune clair	hellgelborange	naranja amarillento claro
12	021D	light yellow orange	orangé jaune clair	hellgelborange	naranja amarillento claro
12	022B	light yellow orange	orangé jaune clair	hellgelborange	naranja amarillento claro
12	022C	light yellow orange	orangé jaune clair	hellgelborange	naranja amarillento claro
12	022D	light yellow orange	orangé jaune clair	hellgelborange	naranja amarillento claro
12	023C	light yellow orange	orangé jaune clair	hellgelborange	naranja amarillento claro
12	023D	light yellow orange	orangé jaune clair	hellgelborange	naranja amarillento claro
13	011A	yellow orange	orangé jaune	gelborange	naranja amarillento
13	013A	yellow orange	orangé jaune	gelborange	naranja amarillento
13	013B	yellow orange	orangé jaune	gelborange	naranja amarillento
13	013C	yellow orange	orangé jaune	gelborange	naranja amarillento
13	014A	yellow orange	orangé jaune	gelborange	naranja amarillento
13	014B	yellow orange	orangé jaune	gelborange	naranja amarillento
13	014C	yellow orange	orangé jaune	gelborange	naranja amarillento
13	015A	yellow orange	orangé jaune	gelborange	naranja amarillento
13	015B	yellow orange	orangé jaune	gelborange	naranja amarillento
13	015C	yellow orange	orangé jaune	gelborange	naranja amarillento
13	016A	yellow orange	orangé jaune	gelborange	naranja amarillento
13	016B	yellow orange	orangé jaune	gelborange	naranja amarillento
13	016C	yellow orange	orangé jaune	gelborange	naranja amarillento
13	017A	yellow orange	orangé jaune	gelborange	naranja amarillento
13	017B	yellow orange	orangé jaune	gelborange	naranja amarillento
13	017C	yellow orange	orangé jaune	gelborange	naranja amarillento
13	017D	yellow orange	orangé jaune	gelborange	naranja amarillento
13	018A	yellow orange	orangé jaune	gelborange	naranja amarillento
13	019A	yellow orange	orangé jaune	gelborange	naranja amarillento
13	020A	yellow orange	orangé jaune	gelborange	naranja amarillento
13	020B	yellow orange	orangé jaune	gelborange	naranja amarillento
13	021A	yellow orange	orangé jaune	gelborange	naranja amarillento
13	021B	yellow orange	orangé jaune	gelborange	naranja amarillento
13	021C	yellow orange	orangé jaune	gelborange	naranja amarillento
13	022A	yellow orange	orangé jaune	gelborange	naranja amarillento
13	023A	yellow orange	orangé jaune	gelborange	naranja amarillento
13	023B	yellow orange	orangé jaune	gelborange	naranja amarillento
13	N 025D	yellow orange	orangé jaune	gelborange	naranja amarillento
14	024A	orange	orange	orange	naranja
14	024B	orange	orange	orange	naranja
14	024C	orange	orange	orange	naranja
14	024D	orange	orange	orange	naranja
14	025A	orange	orange	orange	naranja
14	025B	orange	orange	orange	naranja
14	025C	orange	orange	orange	naranja
14	025D	orange	orange	orange	naranja
14	N 025B	orange	orange	orange	naranja
14	N 025C	orange	orange	orange	naranja

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14	026A	orange	orange	orange	naranja
14	026B	orange	orange	orange	naranja
14	026C	orange	orange	orange	naranja
14	026D	orange	orange	orange	naranja
14	028B	orange	orange	orange	naranja
14	028C	orange	orange	orange	naranja
14	028D	orange	orange	orange	naranja
14	029A	orange	orange	orange	naranja
14	029B	orange	orange	orange	naranja
14	030D	orange	orange	orange	naranja
14	N 030D	orange	orange	orange	naranja
15	027A	orange pink	rose orangé	orangerosa	rosa anaranjado
15	027B	orange pink	rose orangé	orangerosa	rosa anaranjado
15	027C	orange pink	rose orangé	orangerosa	rosa anaranjado
15	027D	orange pink	rose orangé	orangerosa	rosa anaranjado
15	029C	orange pink	rose orangé	orangerosa	rosa anaranjado
15	029D	orange pink	rose orangé	orangerosa	rosa anaranjado
15	031D	orange pink	rose orangé	orangerosa	rosa anaranjado
15	032D	orange pink	rose orangé	orangerosa	rosa anaranjado
15	033D	orange pink	rose orangé	orangerosa	rosa anaranjado
15	035C	orange pink	rose orangé	orangerosa	rosa anaranjado
15	037A	orange pink	rose orangé	orangerosa	rosa anaranjado
15	037B	orange pink	rose orangé	orangerosa	rosa anaranjado
15	179D	orange pink	rose orangé	orangerosa	rosa anaranjado
16	035D	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	036A	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	036B	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	036C	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	036D	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	037C	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	037D	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	038A	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	038B	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	038C	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	038D	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	039C	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	039D	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	041D	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	049B	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	049C	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	049D	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
16	050D	light red pink	rose-rouge clair	hellrotrosa	rosa rojizo claro
17	043C	red pink	rose-rouge	rotrosa	rosa rojizo
17	043D	red pink	rose-rouge	rotrosa	rosa rojizo
17	047D	red pink	rose-rouge	rotrosa	rosa rojizo
17	048B	red pink	rose-rouge	rotrosa	rosa rojizo
17	048C	red pink	rose-rouge	rotrosa	rosa rojizo
17	048D	red pink	rose-rouge	rotrosa	rosa rojizo
17	049A	red pink	rose-rouge	rotrosa	rosa rojizo
17	050C	red pink	rose-rouge	rotrosa	rosa rojizo
17	051C	red pink	rose-rouge	rotrosa	rosa rojizo
17	051D	red pink	rose-rouge	rotrosa	rosa rojizo
17	052B	red pink	rose-rouge	rotrosa	rosa rojizo
17	052C	red pink	rose-rouge	rotrosa	rosa rojizo
17	052D	red pink	rose-rouge	rotrosa	rosa rojizo
18	054D	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	055C	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	055D	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	056A	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	056B	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	056C	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	056D	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	062B	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	062C	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	062D	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	063D	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	065B	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro

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18	065C	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	065D	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	068D	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	069A	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	069B	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	070D	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	073C	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	073D	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
18	075D	light blue pink	rose-bleu clair	hellblaurosa	rosa azulado claro
19	062A	blue pink	rose-bleu	blaurosa	rosa azulado
19	063B	blue pink	rose-bleu	blaurosa	rosa azulado
19	063C	blue pink	rose-bleu	blaurosa	rosa azulado
19	064C	blue pink	rose-bleu	blaurosa	rosa azulado
19	064D	blue pink	rose-bleu	blaurosa	rosa azulado
19	065A	blue pink	rose-bleu	blaurosa	rosa azulado
19	066C	blue pink	rose-bleu	blaurosa	rosa azulado
19	066D	blue pink	rose-bleu	blaurosa	rosa azulado
19	N 066C	blue pink	rose-bleu	blaurosa	rosa azulado
19	N 066D	blue pink	rose-bleu	blaurosa	rosa azulado
19	067B	blue pink	rose-bleu	blaurosa	rosa azulado
19	067C	blue pink	rose-bleu	blaurosa	rosa azulado
19	067D	blue pink	rose-bleu	blaurosa	rosa azulado
19	068A	blue pink	rose-bleu	blaurosa	rosa azulado
19	068B	blue pink	rose-bleu	blaurosa	rosa azulado
19	068C	blue pink	rose-bleu	blaurosa	rosa azulado
19	070C	blue pink	rose-bleu	blaurosa	rosa azulado
19	071D	blue pink	rose-bleu	blaurosa	rosa azulado
19	072C	blue pink	rose-bleu	blaurosa	rosa azulado
19	072D	blue pink	rose-bleu	blaurosa	rosa azulado
19	073A	blue pink	rose-bleu	blaurosa	rosa azulado
19	073B	blue pink	rose-bleu	blaurosa	rosa azulado
19	074D	blue pink	rose-bleu	blaurosa	rosa azulado
19	N 074C	blue pink	rose-bleu	blaurosa	rosa azulado
19	N 074D	blue pink	rose-bleu	blaurosa	rosa azulado
19	186C	blue pink	rose-bleu	blaurosa	rosa azulado
19	186D	blue pink	rose-bleu	blaurosa	rosa azulado
20	N 025A	orange red	rouge orangé	orangerot	rojo anaranjado
20	028A	orange red	rouge orangé	orangerot	rojo anaranjado
20	030A	orange red	rouge orangé	orangerot	rojo anaranjado
20	030B	orange red	rouge orangé	orangerot	rojo anaranjado
20	030C	orange red	rouge orangé	orangerot	rojo anaranjado
20	N 030B	orange red	rouge orangé	orangerot	rojo anaranjado
20	N 030C	orange red	rouge orangé	orangerot	rojo anaranjado
20	031A	orange red	rouge orangé	orangerot	rojo anaranjado
20	032A	orange red	rouge orangé	orangerot	rojo anaranjado
20	032B	orange red	rouge orangé	orangerot	rojo anaranjado
20	033B	orange red	rouge orangé	orangerot	rojo anaranjado
20	035B	orange red	rouge orangé	orangerot	rojo anaranjado
20	039A	orange red	rouge orangé	orangerot	rojo anaranjado
20	039B	orange red	rouge orangé	orangerot	rojo anaranjado
20	040C	orange red	rouge orangé	orangerot	rojo anaranjado
20	040D	orange red	rouge orangé	orangerot	rojo anaranjado
20	041B	orange red	rouge orangé	orangerot	rojo anaranjado
20	041C	orange red	rouge orangé	orangerot	rojo anaranjado
20	042D	orange red	rouge orangé	orangerot	rojo anaranjado
20	044D	orange red	rouge orangé	orangerot	rojo anaranjado
21	N 030A	red	rouge	rot	rojo
21	033A	red	rouge	rot	rojo
21	034A	red	rouge	rot	rojo
21	N 034B	red	rouge	rot	rojo
21	040A	red	rouge	rot	rojo
21	040B	red	rouge	rot	rojo
21	041A	red	rouge	rot	rojo
21	042A	red	rouge	rot	rojo
21	042B	red	rouge	rot	rojo
21	042C	red	rouge	rot	rojo
21	043A	red	rouge	rot	rojo

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21	043B	red	rouge	rot	rojo
21	044A	red	rouge	rot	rojo
21	044B	red	rouge	rot	rojo
21	044C	red	rouge	rot	rojo
21	045A	red	rouge	rot	rojo
21	045B	red	rouge	rot	rojo
21	045C	red	rouge	rot	rojo
21	046B	red	rouge	rot	rojo
21	046C	red	rouge	rot	rojo
21	047A	red	rouge	rot	rojo
21	047B	red	rouge	rot	rojo
21	050A	red	rouge	rot	rojo
22	N 034C	dark pink red	rouge-rose foncé	dunkelrosarot	rojo rosado oscuro
22	045D	dark pink red	rouge-rose foncé	dunkelrosarot	rojo rosado oscuro
22	046D	dark pink red	rouge-rose foncé	dunkelrosarot	rojo rosado oscuro
22	047C	dark pink red	rouge-rose foncé	dunkelrosarot	rojo rosado oscuro
22	048A	dark pink red	rouge-rose foncé	dunkelrosarot	rojo rosado oscuro
22	050B	dark pink red	rouge-rose foncé	dunkelrosarot	rojo rosado oscuro
22	051A	dark pink red	rouge-rose foncé	dunkelrosarot	rojo rosado oscuro
22	051B	dark pink red	rouge-rose foncé	dunkelrosarot	rojo rosado oscuro
22	052A	dark pink red	rouge-rose foncé	dunkelrosarot	rojo rosado oscuro
22	053C	dark pink red	rouge-rose foncé	dunkelrosarot	rojo rosado oscuro
22	053D	dark pink red	rouge-rose foncé	dunkelrosarot	rojo rosado oscuro
23	054A	purple red	rouge pourpre	purpurrot	rojo purpúreo
23	054B	purple red	rouge pourpre	purpurrot	rojo purpúreo
23	054C	purple red	rouge pourpre	purpurrot	rojo purpúreo
23	055A	purple red	rouge pourpre	purpurrot	rojo purpúreo
23	055B	purple red	rouge pourpre	purpurrot	rojo purpúreo
23	057A	purple red	rouge pourpre	purpurrot	rojo purpúreo
23	057B	purple red	rouge pourpre	purpurrot	rojo purpúreo
23	057C	purple red	rouge pourpre	purpurrot	rojo purpúreo
23	057D	purple red	rouge pourpre	purpurrot	rojo purpúreo
23	N 057A	purple red	rouge pourpre	purpurrot	rojo purpúreo
23	N 057B	purple red	rouge pourpre	purpurrot	rojo purpúreo
23	N 057C	purple red	rouge pourpre	purpurrot	rojo purpúreo
23	N 057D	purple red	rouge pourpre	purpurrot	rojo purpúreo
23	058B	purple red	rouge pourpre	purpurrot	rojo purpúreo
23	058C	purple red	rouge pourpre	purpurrot	rojo purpúreo
23	058D	purple red	rouge pourpre	purpurrot	rojo purpúreo
23	059D	purple red	rouge pourpre	purpurrot	rojo purpúreo
23	060D	purple red	rouge pourpre	purpurrot	rojo purpúreo
23	061C	purple red	rouge pourpre	purpurrot	rojo purpúreo
23	061D	purple red	rouge pourpre	purpurrot	rojo purpúreo
23	063A	purple red	rouge pourpre	purpurrot	rojo purpúreo
23	066A	purple red	rouge pourpre	purpurrot	rojo purpúreo
23	066B	purple red	rouge pourpre	purpurrot	rojo purpúreo
23	N 066A	purple red	rouge pourpre	purpurrot	rojo purpúreo
23	N 066B	purple red	rouge pourpre	purpurrot	rojo purpúreo
24	N 034A	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
24	046A	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
24	053A	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
24	053B	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
24	059A	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
24	059B	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
24	060A	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
24	060B	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
24	185A	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
24	187B	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
24	187C	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
24	187D	dark purple red	pourpre foncé	dunkelpurpurrot	rojo purpúreo oscuro
25	178C	brown red	rouge-brun	braunrot	rojo amarronado
25	178D	brown red	rouge-brun	braunrot	rojo amarronado
25	179A	brown red	rouge-brun	braunrot	rojo amarronado
25	179B	brown red	rouge-brun	braunrot	rojo amarronado
25	180A	brown red	rouge-brun	braunrot	rojo amarronado
25	180B	brown red	rouge-brun	braunrot	rojo amarronado
25	180C	brown red	rouge-brun	braunrot	rojo amarronado

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25	180D	brown red	rouge-brun	braunrot	rojo amarronado
25	181A	brown red	rouge-brun	braunrot	rojo amarronado
25	181B	brown red	rouge-brun	braunrot	rojo amarronado
25	181C	brown red	rouge-brun	braunrot	rojo amarronado
25	181D	brown red	rouge-brun	braunrot	rojo amarronado
25	182A	brown red	rouge-brun	braunrot	rojo amarronado
25	182B	brown red	rouge-brun	braunrot	rojo amarronado
25	182C	brown red	rouge-brun	braunrot	rojo amarronado
25	182D	brown red	rouge-brun	braunrot	rojo amarronado
26	N 077A	brown purple	pourpre brun	braunpurpur	púrpura amarronado
26	178A	brown purple	pourpre brun	braunpurpur	púrpura amarronado
26	178B	brown purple	pourpre brun	braunpurpur	púrpura amarronado
26	183A	brown purple	pourpre brun	braunpurpur	púrpura amarronado
26	183B	brown purple	pourpre brun	braunpurpur	púrpura amarronado
26	183C	brown purple	pourpre brun	braunpurpur	púrpura amarronado
26	183D	brown purple	pourpre brun	braunpurpur	púrpura amarronado
26	184A	brown purple	pourpre brun	braunpurpur	púrpura amarronado
26	184B	brown purple	pourpre brun	braunpurpur	púrpura amarronado
26	184C	brown purple	pourpre brun	braunpurpur	púrpura amarronado
26	184D	brown purple	pourpre brun	braunpurpur	púrpura amarronado
26	185B	brown purple	pourpre brun	braunpurpur	púrpura amarronado
26	185C	brown purple	pourpre brun	braunpurpur	púrpura amarronado
26	185D	brown purple	pourpre brun	braunpurpur	púrpura amarronado
26	186A	brown purple	pourpre brun	braunpurpur	púrpura amarronado
26	186B	brown purple	pourpre brun	braunpurpur	púrpura amarronado
26	N 186C	brown purple	pourpre brun	braunpurpur	púrpura amarronado
26	N 186D	brown purple	pourpre brun	braunpurpur	púrpura amarronado
26	187A	brown purple	pourpre brun	braunpurpur	púrpura amarronado
27	058A	purple	pourpre	purpurn	púrpura
27	059C	purple	pourpre	purpurn	púrpura
27	060C	purple	pourpre	purpurn	púrpura
27	061A	purple	pourpre	purpurn	púrpura
27	061B	purple	pourpre	purpurn	púrpura
27	064A	purple	pourpre	purpurn	púrpura
27	064B	purple	pourpre	purpurn	púrpura
27	067A	purple	pourpre	purpurn	púrpura
27	070A	purple	pourpre	purpurn	púrpura
27	070B	purple	pourpre	purpurn	púrpura
27	071A	purple	pourpre	purpurn	púrpura
27	071B	purple	pourpre	purpurn	púrpura
27	071C	purple	pourpre	purpurn	púrpura
27	072A	purple	pourpre	purpurn	púrpura
27	072B	purple	pourpre	purpurn	púrpura
27	074A	purple	pourpre	purpurn	púrpura
27	074B	purple	pourpre	purpurn	púrpura
27	074C	purple	pourpre	purpurn	púrpura
27	N 074A	purple	pourpre	purpurn	púrpura
27	N 074B	purple	pourpre	purpurn	púrpura
27	N 079C	purple	pourpre	purpurn	púrpura
28	075A	violet	violet	violett	violeta
28	075B	violet	violet	violett	violeta
28	075C	violet	violet	violett	violeta
28	077A	violet	violet	violett	violeta
28	077B	violet	violet	violett	violeta
28	077C	violet	violet	violett	violeta
28	077D	violet	violet	violett	violeta
28	N 077B	violet	violet	violett	violeta
28	N 077D	violet	violet	violett	violeta
28	078A	violet	violet	violett	violeta
28	078B	violet	violet	violett	violeta
28	078C	violet	violet	violett	violeta
28	078D	violet	violet	violett	violeta
28	N 078A	violet	violet	violett	violeta
28	N 078B	violet	violet	violett	violeta
28	N 078C	violet	violet	violett	violeta
28	N 078D	violet	violet	violett	violeta
28	N 079D	violet	violet	violett	violeta

UPOV Group No.	No. RHS	English	français	deutsch	español
28	080A	violet	violet	violett	violeta
28	080B	violet	violet	violett	violeta
28	080C	violet	violet	violett	violeta
28	080D	violet	violet	violett	violeta
28	N 080A	violet	violet	violett	violeta
28	N 080B	violet	violet	violett	violeta
28	N 080C	violet	violet	violett	violeta
28	N 080D	violet	violet	violett	violeta
28	081A	violet	violet	violett	violeta
28	081B	violet	violet	violett	violeta
28	081C	violet	violet	violett	violeta
28	081D	violet	violet	violett	violeta
28	N 081A	violet	violet	violett	violeta
28	N 081B	violet	violet	violett	violeta
28	N 081C	violet	violet	violett	violeta
28	N 081D	violet	violet	violett	violeta
28	082A	violet	violet	violett	violeta
28	082B	violet	violet	violett	violeta
28	082C	violet	violet	violett	violeta
28	082D	violet	violet	violett	violeta
28	N 082A	violet	violet	violett	violeta
28	084A	violet	violet	violett	violeta
28	084B	violet	violet	violett	violeta
28	087A	violet	violet	violett	violeta
28	087B	violet	violet	violett	violeta
28	087C	violet	violet	violett	violeta
28	087D	violet	violet	violett	violeta
28	088D	violet	violet	violett	violeta
29	N 077C	dark violet	violet foncé	dunkelviolet	violeta oscuro
29	079A	dark violet	violet foncé	dunkelviolet	violeta oscuro
29	079B	dark violet	violet foncé	dunkelviolet	violeta oscuro
29	079C	dark violet	violet foncé	dunkelviolet	violeta oscuro
29	079D	dark violet	violet foncé	dunkelviolet	violeta oscuro
29	N 079A	dark violet	violet foncé	dunkelviolet	violeta oscuro
29	N 079B	dark violet	violet foncé	dunkelviolet	violeta oscuro
29	083A	dark violet	violet foncé	dunkelviolet	violeta oscuro
29	083B	dark violet	violet foncé	dunkelviolet	violeta oscuro
29	086A	dark violet	violet foncé	dunkelviolet	violeta oscuro
29	N 092A	dark violet	violet foncé	dunkelviolet	violeta oscuro
29	N 092D	dark violet	violet foncé	dunkelviolet	violeta oscuro
30	069C	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
30	069D	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
30	076A	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
30	076B	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
30	076C	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
30	076D	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
30	084C	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
30	084D	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
30	085A	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
30	085B	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
30	085C	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
30	085D	light blue violet	violet-bleu clair	hellblauviolett	violeta azulado claro
31	N 082B	blue violet	violet-bleu	blauviolett	violeta azulado
31	N 082C	blue violet	violet-bleu	blauviolett	violeta azulado
31	N 082D	blue violet	violet-bleu	blauviolett	violeta azulado
31	083C	blue violet	violet-bleu	blauviolett	violeta azulado
31	083D	blue violet	violet-bleu	blauviolett	violeta azulado
31	086B	blue violet	violet-bleu	blauviolett	violeta azulado
31	086C	blue violet	violet-bleu	blauviolett	violeta azulado
31	086D	blue violet	violet-bleu	blauviolett	violeta azulado
31	N 087A	blue violet	violet-bleu	blauviolett	violeta azulado
31	N 087B	blue violet	violet-bleu	blauviolett	violeta azulado
31	N 087C	blue violet	violet-bleu	blauviolett	violeta azulado
31	N 087D	blue violet	violet-bleu	blauviolett	violeta azulado
31	088A	blue violet	violet-bleu	blauviolett	violeta azulado
31	088B	blue violet	violet-bleu	blauviolett	violeta azulado
31	088C	blue violet	violet-bleu	blauviolett	violeta azulado

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31	N 088A	blue violet	violet-bleu	blauviolett	violeta azulado
31	N 088B	blue violet	violet-bleu	blauviolett	violeta azulado
31	N 088C	blue violet	violet-bleu	blauviolett	violeta azulado
31	N 088D	blue violet	violet-bleu	blauviolett	violeta azulado
31	N 089C	blue violet	violet-bleu	blauviolett	violeta azulado
31	N 089D	blue violet	violet-bleu	blauviolett	violeta azulado
31	090A	blue violet	violet-bleu	blauviolett	violeta azulado
31	090B	blue violet	violet-bleu	blauviolett	violeta azulado
31	090C	blue violet	violet-bleu	blauviolett	violeta azulado
31	090D	blue violet	violet-bleu	blauviolett	violeta azulado
32	091B	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
32	091C	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
32	091D	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
32	092B	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
32	092C	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
32	092D	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
32	093D	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
32	094D	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
32	095D	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
32	097B	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
32	097C	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
32	097D	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
32	100D	light violet blue	bleu-violet clair	hellviolettblau	azul violáceo claro
33	089A	violet blue	bleu-violet	violettblau	azul violáceo
33	089B	violet blue	bleu-violet	violettblau	azul violáceo
33	089C	violet blue	bleu-violet	violettblau	azul violáceo
33	089D	violet blue	bleu-violet	violettblau	azul violáceo
33	N 089A	violet blue	bleu-violet	violettblau	azul violáceo
33	N 089B	violet blue	bleu-violet	violettblau	azul violáceo
33	091A	violet blue	bleu-violet	violettblau	azul violáceo
33	092A	violet blue	bleu-violet	violettblau	azul violáceo
33	N 092B	violet blue	bleu-violet	violettblau	azul violáceo
33	N 092C	violet blue	bleu-violet	violettblau	azul violáceo
33	093A	violet blue	bleu-violet	violettblau	azul violáceo
33	093B	violet blue	bleu-violet	violettblau	azul violáceo
33	093C	violet blue	bleu-violet	violettblau	azul violáceo
33	094A	violet blue	bleu-violet	violettblau	azul violáceo
33	094B	violet blue	bleu-violet	violettblau	azul violáceo
33	094C	violet blue	bleu-violet	violettblau	azul violáceo
33	095A	violet blue	bleu-violet	violettblau	azul violáceo
33	095B	violet blue	bleu-violet	violettblau	azul violáceo
33	095C	violet blue	bleu-violet	violettblau	azul violáceo
33	096A	violet blue	bleu-violet	violettblau	azul violáceo
33	096B	violet blue	bleu-violet	violettblau	azul violáceo
33	096C	violet blue	bleu-violet	violettblau	azul violáceo
33	096D	violet blue	bleu-violet	violettblau	azul violáceo
33	097A	violet blue	bleu-violet	violettblau	azul violáceo
34	101D	light blue	bleu clair	hellblau	azul claro
34	104D	light blue	bleu clair	hellblau	azul claro
34	106B	light blue	bleu clair	hellblau	azul claro
34	106C	light blue	bleu clair	hellblau	azul claro
34	106D	light blue	bleu clair	hellblau	azul claro
34	107C	light blue	bleu clair	hellblau	azul claro
34	107D	light blue	bleu clair	hellblau	azul claro
34	108A	light blue	bleu clair	hellblau	azul claro
34	108B	light blue	bleu clair	hellblau	azul claro
34	108C	light blue	bleu clair	hellblau	azul claro
34	108D	light blue	bleu clair	hellblau	azul claro
34	109D	light blue	bleu clair	hellblau	azul claro
34	N 109D	light blue	bleu clair	hellblau	azul claro
34	112A	light blue	bleu clair	hellblau	azul claro
34	112B	light blue	bleu clair	hellblau	azul claro
35	098A	medium blue	bleumoyen	mittelblau	azul medio
35	098B	medium blue	bleu moyen	mittelblau	azul medio
35	098C	medium blue	bleu moyen	mittelblau	azul medio
35	098D	medium blue	bleu moyen	mittelblau	azul medio
35	099C	medium blue	bleu moyen	mittelblau	azul medio

UPOV Group No.	No. RHS	English	français	deutsch	español
35	099D	medium blue	bleu moyen	mittelblau	azul medio
35	100A	medium blue	bleu moyen	mittelblau	azul medio
35	100B	medium blue	bleu moyen	mittelblau	azul medio
35	100C	medium blue	bleu moyen	mittelblau	azul medio
35	101A	medium blue	bleu moyen	mittelblau	azul medio
35	101B	medium blue	bleu moyen	mittelblau	azul medio
35	101C	medium blue	bleu moyen	mittelblau	azul medio
35	102B	medium blue	bleu moyen	mittelblau	azul medio
35	102C	medium blue	bleu moyen	mittelblau	azul medio
35	102D	medium blue	bleu moyen	mittelblau	azul medio
35	103D	medium blue	bleu moyen	mittelblau	azul medio
35	104A	medium blue	bleu moyen	mittelblau	azul medio
35	104B	medium blue	bleu moyen	mittelblau	azul medio
35	104C	medium blue	bleu moyen	mittelblau	azul medio
35	105A	medium blue	bleu moyen	mittelblau	azul medio
35	105B	medium blue	bleu moyen	mittelblau	azul medio
35	105C	medium blue	bleu moyen	mittelblau	azul medio
35	105D	medium blue	bleu moyen	mittelblau	azul medio
35	106A	medium blue	bleu moyen	mittelblau	azul medio
35	107A	medium blue	bleu moyen	mittelblau	azul medio
35	107B	medium blue	bleu moyen	mittelblau	azul medio
35	109A	medium blue	bleu moyen	mittelblau	azul medio
35	109B	medium blue	bleu moyen	mittelblau	azul medio
35	109C	medium blue	bleu moyen	mittelblau	azul medio
35	N 109A	medium blue	bleu moyen	mittelblau	azul medio
35	N 109B	medium blue	bleu moyen	mittelblau	azul medio
35	N 109C	medium blue	bleu moyen	mittelblau	azul medio
35	110A	medium blue	bleu moyen	mittelblau	azul medio
35	110B	medium blue	bleu moyen	mittelblau	azul medio
36	099A	dark blue	bleu foncé	dunkelblau	azul oscuro
36	099B	dark blue	bleu foncé	dunkelblau	azul oscuro
36	102A	dark blue	bleu foncé	dunkelblau	azul oscuro
36	103A	dark blue	bleu foncé	dunkelblau	azul oscuro
36	103B	dark blue	bleu foncé	dunkelblau	azul oscuro
36	103C	dark blue	bleu foncé	dunkelblau	azul oscuro
37	110C	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	110D	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	111C	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	111D	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	112C	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	112D	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	113C	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	113D	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	117A	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	117B	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	117C	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	117D	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	118C	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	118D	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	119D	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	120D	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	121C	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	121D	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
37	122D	light green blue	bleu-vert clair	hellgrünblau	azul verdoso claro
38	111A	green blue	bleu-vert	grünblau	azul verdoso
38	111B	green blue	bleu-vert	grünblau	azul verdoso
38	113A	green blue	bleu-vert	grünblau	azul verdoso
38	113B	green blue	bleu-vert	grünblau	azul verdoso
38	114A	green blue	bleu-vert	grünblau	azul verdoso
38	114B	green blue	bleu-vert	grünblau	azul verdoso
38	114C	green blue	bleu-vert	grünblau	azul verdoso
38	114D	green blue	bleu-vert	grünblau	azul verdoso
38	115A	green blue	bleu-vert	grünblau	azul verdoso
38	115B	green blue	bleu-vert	grünblau	azul verdoso
38	116A	green blue	bleu-vert	grünblau	azul verdoso
38	116B	green blue	bleu-vert	grünblau	azul verdoso
38	116C	green blue	bleu-vert	grünblau	azul verdoso

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38	116D	green blue	bleu-vert	grünblau	azul verdoso
38	118A	green blue	bleu-vert	grünblau	azul verdoso
38	118B	green blue	bleu-vert	grünblau	azul verdoso
38	119A	green blue	bleu-vert	grünblau	azul verdoso
38	121A	green blue	bleu-vert	grünblau	azul verdoso
39	115C	grey blue	bleu-gris	graublau	azul grisáceo
39	115D	grey blue	bleu-gris	graublau	azul grisáceo
39	119B	grey blue	bleu-gris	graublau	azul grisáceo
39	119C	grey blue	bleu-gris	graublau	azul grisáceo
39	122A	grey blue	bleu-gris	graublau	azul grisáceo
39	122B	grey blue	bleu-gris	graublau	azul grisáceo
39	122C	grey blue	bleu-gris	graublau	azul grisáceo
40	166C	light brown	brun clair	hellbraun	marrón claro
40	166D	light brown	brun clair	hellbraun	marrón claro
40	N 170A	light brown	brun clair	hellbraun	marrón claro
40	N 170B	light brown	brun clair	hellbraun	marrón claro
40	N 170C	light brown	brun clair	hellbraun	marrón claro
40	173C	light brown	brun clair	hellbraun	marrón claro
40	173D	light brown	brun clair	hellbraun	marrón claro
40	174B	light brown	brun clair	hellbraun	marrón claro
40	174C	light brown	brun clair	hellbraun	marrón claro
40	174D	light brown	brun clair	hellbraun	marrón claro
40	176D	light brown	brun clair	hellbraun	marrón claro
40	177C	light brown	brun clair	hellbraun	marrón claro
40	177D	light brown	brun clair	hellbraun	marrón claro
41	165A	medium brown	brun moyen	mittelbraun	marrón medio
41	166A	medium brown	brun moyen	mittelbraun	marrón medio
41	166B	medium brown	brun moyen	mittelbraun	marrón medio
41	171A	medium brown	brun moyen	mittelbraun	marrón medio
41	172A	medium brown	brun moyen	mittelbraun	marrón medio
41	172B	medium brown	brun moyen	mittelbraun	marrón medio
41	173A	medium brown	brun moyen	mittelbraun	marrón medio
41	174A	medium brown	brun moyen	mittelbraun	marrón medio
41	175A	medium brown	brun moyen	mittelbraun	marrón medio
41	175B	medium brown	brun moyen	mittelbraun	marrón medio
41	175C	medium brown	brun moyen	mittelbraun	marrón medio
41	175D	medium brown	brun moyen	mittelbraun	marrón medio
41	176A	medium brown	brun moyen	mittelbraun	marrón medio
41	176B	medium brown	brun moyen	mittelbraun	marrón medio
41	176C	medium brown	brun moyen	mittelbraun	marrón medio
41	177A	medium brown	brun moyen	mittelbraun	marrón medio
41	177B	medium brown	brun moyen	mittelbraun	marrón medio
41	200D	medium brown	brun moyen	mittelbraun	marrón medio
42	N 199B	dark brown	brun foncé	dunkelbraun	marrón oscuro
42	200A	dark brown	brun foncé	dunkelbraun	marrón oscuro
42	200B	dark brown	brun foncé	dunkelbraun	marrón oscuro
42	200C	dark brown	brun foncé	dunkelbraun	marrón oscuro
42	N 200A	dark brown	brun foncé	dunkelbraun	marrón oscuro
43	158A	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	158B	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	158C	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	158D	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	159A	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	159B	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	159C	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	159D	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	160A	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	160B	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	160C	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	160D	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	161A	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	161B	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	161C	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	161D	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	162A	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	162B	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	162C	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro

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43	162D	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	163B	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	163C	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	163D	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	164D	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
43	165D	light yellow brown	brun-jaune clair	hellgelbbraun	marrón amarillento claro
44	163A	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	N 163C	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	N 163D	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	164A	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	164B	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	164C	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	165B	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	165C	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	167A	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	167B	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	167C	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	167D	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	N 167A	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	N 167B	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	N 167C	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	N 167D	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	168C	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	168D	yellow brown	brun-jaune	gelbbraun	marrón amarillento
44	N 172D	yellow brown	brun-jaune	gelbbraun	marrón amarillento
45	031B	orange brown	brun-orange	orangebraun	marrón anaranjado
45	031C	orange brown	brun-orange	orangebraun	marrón anaranjado
45	032C	orange brown	brun-orange	orangebraun	marrón anaranjado
45	033C	orange brown	brun-orange	orangebraun	marrón anaranjado
45	034B	orange brown	brun-orange	orangebraun	marrón anaranjado
45	034C	orange brown	brun-orange	orangebraun	marrón anaranjado
45	034D	orange brown	brun-orange	orangebraun	marrón anaranjado
45	N 034D	orange brown	brun-orange	orangebraun	marrón anaranjado
45	035A	orange brown	brun-orange	orangebraun	marrón anaranjado
45	N 163A	orange brown	brun-orange	orangebraun	marrón anaranjado
45	N 163B	orange brown	brun-orange	orangebraun	marrón anaranjado
45	168A	orange brown	brun-orange	orangebraun	marrón anaranjado
45	168B	orange brown	brun-orange	orangebraun	marrón anaranjado
45	169A	orange brown	brun-orange	orangebraun	marrón anaranjado
45	169B	orange brown	brun-orange	orangebraun	marrón anaranjado
45	169C	orange brown	brun-orange	orangebraun	marrón anaranjado
45	169D	orange brown	brun-orange	orangebraun	marrón anaranjado
45	N 170D	orange brown	brun-orange	orangebraun	marrón anaranjado
45	170A	orange brown	brun-orange	orangebraun	marrón anaranjado
45	170B	orange brown	brun-orange	orangebraun	marrón anaranjado
45	170C	orange brown	brun-orange	orangebraun	marrón anaranjado
45	170D	orange brown	brun-orange	orangebraun	marrón anaranjado
45	171B	orange brown	brun-orange	orangebraun	marrón anaranjado
45	171C	orange brown	brun-orange	orangebraun	marrón anaranjado
45	171D	orange brown	brun-orange	orangebraun	marrón anaranjado
45	172C	orange brown	brun-orange	orangebraun	marrón anaranjado
45	172D	orange brown	brun-orange	orangebraun	marrón anaranjado
45	N 172A	orange brown	brun-orange	orangebraun	marrón anaranjado
45	N 172B	orange brown	brun-orange	orangebraun	marrón anaranjado
45	N 172C	orange brown	brun-orange	orangebraun	marrón anaranjado
45	173B	orange brown	brun-orange	orangebraun	marrón anaranjado
45	179C	orange brown	brun-orange	orangebraun	marrón anaranjado
46	199A	grey brown	brun-gris	graubraun	marrón grisáceo
46	199B	grey brown	brun-gris	graubraun	marrón grisáceo
46	199C	grey brown	brun-gris	graubraun	marrón grisáceo
46	199D	grey brown	brun-gris	graubraun	marrón grisáceo
46	N 199A	grey brown	brun-gris	graubraun	marrón grisáceo
46	N 199C	grey brown	brun-gris	graubraun	marrón grisáceo
46	N 199D	grey brown	brun-gris	graubraun	marrón grisáceo
47	151A	green brown	brun-vert	grünbraun	marrón verdoso
47	151B	green brown	brun-vert	grünbraun	marrón verdoso
47	151C	green brown	brun-vert	grünbraun	marrón verdoso

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47	151D	green brown	brun-vert	grünbraun	marrón verdoso
47	152A	green brown	brun-vert	grünbraun	marrón verdoso
47	152B	green brown	brun-vert	grünbraun	marrón verdoso
47	152C	green brown	brun-vert	grünbraun	marrón verdoso
47	152D	green brown	brun-vert	grünbraun	marrón verdoso
47	153A	green brown	brun-vert	grünbraun	marrón verdoso
47	153B	green brown	brun-vert	grünbraun	marrón verdoso
47	153C	green brown	brun-vert	grünbraun	marrón verdoso
47	153D	green brown	brun-vert	grünbraun	marrón verdoso
48	156A	grey	gris	grau	gris
48	156B	grey	gris	grau	gris
48	156C	grey	gris	grau	gris
48	156D	grey	gris	grau	gris
48	157A	grey	gris	grau	gris
48	157B	grey	gris	grau	gris
48	157C	grey	gris	grau	gris
48	N 187B	grey	gris	grau	gris
48	N 187C	grey	gris	grau	gris
48	N 187D	grey	gris	grau	gris
48	194D	grey	gris	grau	gris
48	195A	grey	gris	grau	gris
48	195B	grey	gris	grau	gris
48	195C	grey	gris	grau	gris
48	195D	grey	gris	grau	gris
48	196A	grey	gris	grau	gris
48	196B	grey	gris	grau	gris
48	196C	grey	gris	grau	gris
48	196D	grey	gris	grau	gris
48	197A	grey	gris	grau	gris
48	197B	grey	gris	grau	gris
48	197C	grey	gris	grau	gris
48	197D	grey	gris	grau	gris
48	198A	grey	gris	grau	gris
48	198B	grey	gris	grau	gris
48	198C	grey	gris	grau	gris
48	198D	grey	gris	grau	gris
48	N 200B	grey	gris	grau	gris
48	N 200C	grey	gris	grau	gris
48	N 200D	grey	gris	grau	gris
48	201A	grey	gris	grau	gris
48	201B	grey	gris	grau	gris
48	201C	grey	gris	grau	gris
48	201D	grey	gris	grau	gris
48	202B	grey	gris	grau	gris
48	202C	grey	gris	grau	gris
48	202D	grey	gris	grau	gris
49	188A	green grey	gris-vert	grüngrau	gris verdoso
49	188B	green grey	gris-vert	grüngrau	gris verdoso
49	188C	green grey	gris-vert	grüngrau	gris verdoso
49	188D	green grey	gris-vert	grüngrau	gris verdoso
49	189B	green grey	gris-vert	grüngrau	gris verdoso
49	189C	green grey	gris-vert	grüngrau	gris verdoso
49	189D	green grey	gris-vert	grüngrau	gris verdoso
49	N 189A	green grey	gris-vert	grüngrau	gris verdoso
49	N 189B	green grey	gris-vert	grüngrau	gris verdoso
49	N 189C	green grey	gris-vert	grüngrau	gris verdoso
49	N 189D	green grey	gris-vert	grüngrau	gris verdoso
49	190A	green grey	gris-vert	grüngrau	gris verdoso
49	190B	green grey	gris-vert	grüngrau	gris verdoso
49	190C	green grey	gris-vert	grüngrau	gris verdoso
49	190D	green grey	gris-vert	grüngrau	gris verdoso
49	191C	green grey	gris-vert	grüngrau	gris verdoso
49	191D	green grey	gris-vert	grüngrau	gris verdoso
49	192A	green grey	gris-vert	grüngrau	gris verdoso
49	192B	green grey	gris-vert	grüngrau	gris verdoso
49	192C	green grey	gris-vert	grüngrau	gris verdoso
49	192D	green grey	gris-vert	grüngrau	gris verdoso

UPOV Group No.	No. RHS	English	français	deutsch	español
49	193C	green grey	gris-vert	grüngrau	gris verdoso
49	193D	green grey	gris-vert	grüngrau	gris verdoso
50	N 186A	black	noir	schwarz	negro
50	N 186B	black	noir	schwarz	negro
50	N 187A	black	noir	schwarz	negro
50	202A	black	noir	schwarz	negro
50	203A	black	noir	schwarz	negro
50	203B	black	noir	schwarz	negro
50	203C	black	noir	schwarz	negro
50	203D	black	noir	schwarz	negro

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