



TG/HOSTA(proj.2)

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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS
GENEVA

DRAFT

PLANTAIN LILY

UPOV Code: HOSTA

Hosta Tratt.

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

prepared by experts from the Netherlands

*to be considered by the
Technical Working Party for Ornamental Plants and Forest Trees
at its forty-first session, to be held in Wageningen, Netherlands, from June 9 to 13, 2008*

Alternative Names: *

<i>Botanical name</i>	<i>English</i>	<i>French</i>	<i>German</i>	<i>Spanish</i>
<i>Hosta Tratt.</i>	Funkia, Hosta, Plantain Lily	Funkia, Hémérocalle du Japon	Funkie	

The purpose of these guidelines ("Test Guidelines") is to elaborate the principles contained in the General Introduction (document TG/1/3), and its associated TGP documents, into detailed practical guidance for the harmonized examination of distinctness, uniformity and stability (DUS) and, in particular, to identify appropriate characteristics for the examination of DUS and production of harmonized variety descriptions.

ASSOCIATED DOCUMENTS

These Test Guidelines should be read in conjunction with the General Introduction and its associated TGP documents.

* These names were correct at the time of the introduction of these Test Guidelines but may be revised or updated. [Readers are advised to consult the UPOV Code, which can be found on the UPOV Website (www.upov.int), for the latest information.]

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1. Subject of these Test Guidelines

These Test Guidelines apply to all varieties of *Hosta* Tratt.of the family *Hostaceae*.

2. Material Required

2.1 The competent authorities decide on the quantity and quality of the plant material required for testing the variety and when and where it is to be delivered. Applicants submitting material from a State other than that in which the testing takes place must ensure that all customs formalities and phytosanitary requirements are complied with.

2.2 The material is to be supplied in the form of **two-year-old plants** ready to flower and able to express all their characteristics in the first year of examination.

2.3 The minimum quantity of plant material, to be supplied by the applicant, should be:

25 plants

2.4 The plant material supplied should be visibly healthy, not lacking in vigor, nor affected by any important pest or disease.

2.5 The plant material should not have undergone any treatment which would affect the expression of the characteristics of the variety, unless the competent authorities allow or request such treatment. If it has been treated, full details of the treatment must be given.

3. Method of Examination

3.1 *Number of Growing Cycles*

The minimum duration of tests should normally be **a single** independent growing cycle.

3.2 *Testing Place*

Tests are normally conducted at one place. In the case of tests conducted at more than one place, guidance is provided in TGP/9 "Examining Distinctness".

3.3 *Conditions for Conducting the Examination*

3.3.1 The tests should be carried out under conditions ensuring satisfactory growth for the expression of the relevant characteristics of the variety and for the conduct of the examination.

3.3.2 *Observation of color by eye*

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.

3.4 *Test Design*

3.4.1 Each test should be designed to result in a total of at least 25 plants.

3.4.2 The design of the tests should be such that plants or parts of plants may be removed for measurement or counting without prejudice to the observations which must be made up to the end of the growing cycle.

3.5 *Number of Plants / Parts of Plants to be Examined*

Unless otherwise indicated, all observations on single plants should be made on 10 plants or parts taken from each of 10 plants and any other observations made on all plants in the test.”

3.6 *Additional Tests*

Additional tests, for examining relevant characteristics, may be established.

4. Assessment of Distinctness, Uniformity and Stability

4.1 *Distinctness*

4.1.1 General Recommendations

It is of particular importance for users of these Test Guidelines to consult the General Introduction prior to making decisions regarding distinctness. However, the following points are provided for elaboration or emphasis in these Test Guidelines.

4.1.2 Consistent Differences

The differences observed between varieties may be so clear that more than one growing cycle is not necessary. In addition, in some circumstances, the influence of the environment is not such that more than a single growing cycle is required to provide assurance that the differences observed between varieties are sufficiently consistent. One means of ensuring that a difference in a characteristic, observed in a growing trial, is sufficiently consistent is to examine the characteristic in at least two independent growing cycles.

4.1.3 Clear Differences

Determining whether a difference between two varieties is clear depends on many factors, and should consider, in particular, the type of expression of the characteristic being examined, i.e. whether it is expressed in a qualitative, quantitative, or pseudo-qualitative manner. Therefore, it is important that users of these Test Guidelines are familiar with the recommendations contained in the General Introduction prior to making decisions regarding distinctness.

4.2 *Uniformity*

4.2.1 It is of particular importance for users of these Test Guidelines to consult the General Introduction prior to making decisions regarding uniformity. However, the following points are provided for elaboration or emphasis in these Test Guidelines:

4.2.2 For the assessment of uniformity of vegetatively propagated varieties, a population standard of 1% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 25 plants, 1 off-type is allowed.

4.3 *Stability*

4.3.1 In practice, it is not usual to perform tests of stability that produce results as certain as those of the testing of distinctness and uniformity. However, experience has demonstrated that, for many types of variety, when a variety has been shown to be uniform, it can also be considered to be stable.

4.3.2 Where appropriate, or in cases of doubt, stability may be tested, either by growing a further generation, or by testing a new plant stock to ensure that it exhibits the same characteristics as those shown by the previous material supplied.

5. Grouping of Varieties and Organization of the Growing Trial

5.1 The selection of varieties of common knowledge to be grown in the trial with the candidate varieties and the way in which these varieties are divided into groups to facilitate the assessment of distinctness are aided by the use of grouping characteristics.

5.2 Grouping characteristics are those in which the documented states of expression, even where produced at different locations, can be used, either individually or in combination with other such characteristics: (a) to select varieties of common knowledge that can be excluded from the growing trial used for examination of distinctness; and (b) to organize the growing trial so that similar varieties are grouped together.

5.3 The following have been agreed as useful grouping characteristics:

- (a) Leaf blade: shape (characteristic 10)
- (b) Leaf blade: variegation (characteristic 14)
- (c) Leaf blade: pattern of total variegation (characteristic 21)

5.4 Guidance for the use of grouping characteristics, in the process of examining distinctness, is provided through the General Introduction.

6. Introduction to the Table of Characteristics

6.1 *Categories of Characteristics*

6.1.1 Standard Test Guidelines Characteristics

Standard Test Guidelines characteristics are those which are approved by UPOV for examination of DUS and from which members of the Union can select those suitable for their particular circumstances.

6.1.2 Asterisked Characteristics

Asterisked characteristics (denoted by *) are those included in the Test Guidelines which are important for the international harmonization of variety descriptions and should always be examined for DUS and included in the variety description by all members of the Union, except when the state of expression of a preceding characteristic or regional environmental conditions render this inappropriate.

6.2 *States of Expression and Corresponding Notes*

States of expression are given for each characteristic to define the characteristic and to harmonize descriptions. Each state of expression is allocated a corresponding numerical note for ease of recording of data and for the production and exchange of the description.

6.3 *Types of Expression*

An explanation of the types of expression of characteristics (qualitative, quantitative and pseudo-qualitative) is provided in the General Introduction.

6.4 *Example Varieties*

Where appropriate, example varieties are provided to clarify the states of expression of each characteristic.

6.5 *Legend*

(*) Asterisked characteristic – see Chapter 6.1.2

QL: Qualitative characteristic – see Chapter 6.3

QN: Quantitative characteristic – see Chapter 6.3

PQ: Pseudo-qualitative characteristic – see Chapter 6.3

(a)-(x) See Explanations on the Table of Characteristics in Chapter 8.1

(+) See Explanations on the Table of Characteristics in Chapter 8.2

7. Table of Characteristics/Tableau des caractères/Merkmalstabelle/Tabla de caracteres

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplos	Note/ Nota
1. (*) (+)	Plant: Shoot: color of the first scaly leaves					
PQ	RHS Colour Chart (indicate reference number)					
2. (*)	Plant: height (inflorescence excluded)					
QN	very short					1
	short					3
	medium					5
	tall					7
	very tall					9
3.	Plant: diameter					
QN	very small					1
	small					3
	medium					5
	large					7
	very large					9
4. (*)	Petiole: length					
QN	very short					1
	short					3
	medium					5
	long					7
	very long					9

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplos	Note/ Nota
5. (+)	Petiole: shape in cross-section					
QL	flat					1
	V-shape					2
	U-shape					3
6.	Petiole: color					
PQ	RHS Colour Chart (indicate reference number)					
7. (*)	Leaf blade: length					
QN	very short					1
	short					3
	medium					5
	long					7
	very long					9
8. (*)	Leaf blade: width					
QN	very narrow					1
	narrow					3
	medium					5
	broad					7
	very broad					9
9. (*)	Leaf blade: ratio length/width					
QN	small					3
	medium					5
	large					7

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplos	Note/ Nota
10. (*)	Leaf blade: shape					
QL	very narrow oblong (linear)					1
	very narrow ovate (lanceolate)					2
	narrow ovate					3
	ovate					4
	broad ovate					5
	round					6
	narrow elliptic					7
	elliptic					8
	broad elliptic					9
11. (*) (+)	Leaf blade: shape of base					
QL	attenuate					1
	cuneate					2
	truncate					3
	cordate					4
12. (+)	Leaf blade: shape of distal part					
PQ	acute					1
	approximately right angle					2
	rounded					3

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplos	Note/ Nota
13. (*) (+)	Leaf blade: shape of apex					
PQ	apiculate					1
	acute					2
	narrow acuminate					3
	acuminate					4
	broad acuminate					5
14. (*)	Leaf blade: variegation					
QL	absent					1
	present					9
15. (*)	Varieties without variegated leaves only: Leaf blade: color					
PQ	RHS Colour Chart (indicate reference number)					
16. (+)	Varieties with variegated leaves only: main color					
PQ	RHS Colour Chart (indicate reference number)					
17. (+)	Varieties with variegated leaves only: secondary color					
PQ	RHS Colour Chart (indicate reference number)					

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplos	Note/ Nota
18. (+)	Varieties with variegated leaves only: area of secondary color in relation to main color					
QN	small					3
	medium					5
	large					7
19. (+)	Varieties with variegated leaves only: third color (if present)					
PQ	RHS Colour Chart (indicate reference number)					
20. (+)	Varieties with variegated leaves only: area of third color in relation to secondary color					
QN	small					3
	medium					5
	large					7
21. (*) (+)	Leaf blade: pattern of total variegation					
QL	flamed					1
	striped					2
	spotted					3
	in sectors					4
	marbled					5
	streaked					6

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplos	Note/ Nota
22.	Leaf blade: cross section					
(+)						
PQ	flat					1
	undulate					2
	twisted					3
	shallow concave					4
	deeply concave					5
	convex					6
23.	Leaf blade: venation					
(+)						
QN	very fine					1
	fine					3
	medium					5
	coarse					7
	very coarse					9
24.	Leaf blade: number of clearly visible parallel veins					
(+)						
QN	few					3
	medium					5
	many					7
25.	Leaf blade: degree of substance (bulging)					
QN	absent or very weak					1
	weak					3
	medium					5
	strong					7

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplos	Note/ Nota
26.	Leaf blade: degree of blistering					
QN	absent or very weak					1
	weak					
	medium					5
	strong					7
27.	Leaf blade: undulation of margin					
QL	absent					1
	present					9
28.	Leaf blade: undulation of margin					
(+)						
PQ						1
	undulate					2
	rippled					3
	deeply rippled					4
29.	Inflorescence: length					
QN	very short					1
	short					3
	medium					5
	long					7
	very long					9
30.	Inflorescence: number of flowers					
QN	few					3
	medium					5
	many					7

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplos	Note/ Nota
31.	Inflorescence: attitude of flowers					
(+)						
QL	erect					1
	horizontal					2
	drooping					3
32.	Peduncle: color					
PQ	RHS Colour Chart (indicate reference number)					
33.	Peduncle: bracts					
QL	absent					1
	present					9
34.	Bracts: length					
QN	very short					1
	short					3
	medium					5
	long					7
	very long					9
35.	Bracts: width					
QN	very narrow					1
	narrow					3
	medium					5
	broad					7
	very broad					9
36.	Bracts: cross-section					
QN	concave					1
	flat					2
	convex					3

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplos	Note/ Nota
37.	Bracts: color					
PQ	RHS Colour Chart (indicate reference number)					
38.	Pedicel: length					
QN	short					3
	medium					5
	long					7
39.	Pedicel: color					
PQ	RHS Colour Chart (indicate reference number)					
40.	Perianth: type					
	single					1
	double					9
41.	Perianth: length					
(+)						
QN	short					3
	medium					5
	long					7
42.	Perianth: width					
QN	narrow					3
	medium					5
	broad					7

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplos	Note/ Nota
43.	Perianth: shape in side-view					
(+)						
PQ	tubular					1
	flared					2
	funnel					3
	campanulate					4
44.	Perianth: tube: length					
QN	short					3
	medium					5
	long					7
45.	Perianth: tube: color of outer side					
(+)						
PQ	RHS Colour Chart (indicate reference number)					
46.	Perianth: length of outer corolla lobes					
QN	short					3
	medium					5
	long					7

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplos	Note/ Nota
47.	Perianth: shape of outer corolla lobes					
PQ	very narrow ovate (lanceolate)					1
	narrow ovate					2
	ovate					3
	broad ovate					4
	round					5
	elliptic					6
	broad elliptic					7
48.	Perianth: outer corolla lobes: shape of apex					
PQ	acute					1
	obtuse					2
	rounded					3
49. (*)	Perianth: outer corolla lobes: color					
PQ	RHS Colour Chart (indicate reference number)					
50.	Perianth: length of inner corolla lobes					
QN	short					3
	medium					5
	long					7

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplos	Note/ Nota
51.	Perianth: inner corolla lobes: shape					
PQ	very narrow ovate (lanceolate)					
	narrow ovate					
	ovate					
	broad ovate					
	round					
	elliptic					
	broad elliptic					
52.	Perianth: inner corolla lobes: color					
PQ	RHS Colour Chart (indicate reference number)					
53.	Perianth: inner corolla lobes: shape of apex					
PQ	acute					1
	obtuse					2
	rounded					3
54.	Filament: length					
QN	short					3
	medium					5
	long					7
55.	Filament: color					
PQ	white or near white					1
	light green					2
	green					3

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplos	Note/ Nota
56.	Anther: color					
PQ	yellow					1
	yellow with purple					2
	purple					3
	brown purple					4
57.	Style: length					
QN	short					3
	medium					5
	long					7
58.	Style: color					
PQ	white or near white					1
	light green					2
	green					3
59.	Style: color of stigma					
PQ	white or near white					1
	light green					2
	green					3
	light yellow					4
	light purple					5
	light violet blue					6
60.	Pollen: color					
PQ	yellow					1
	dark yellow					2
	yellow orange					3
	orange					4

8. Explanations on the Table of Characteristics

8.1 *Explanations covering several characteristics*

Characteristics containing the following key in the second column of the Table of Characteristics should be examined as indicated below:

- (a) to be completed
- (b) etc.

8.2 *Explanations for individual characteristics*

Ad. 1: Plant: shoot: color of the first scaly leaves

Scaly leaves the first plant parts emerging from the soil (see picture)

Ad. 5: Petiole: shape in cross-section

Petiole: shape in cross section (add picture)

Ad. 11: Leaf blade: shape of base

(see picture)

Ad. 12: Leaf blade: shape of distal part

(see picture)

Ad. 13: Leaf blade: shape of apex

[TO BE PROVIDED]

Ad. 15: Varieties without variegated leaves only: Leaf blade: color

[TO BE PROVIDED]

Ad. 16: Varieties with variegated leaves only: main color

[TO BE PROVIDED]

Ad 17: Varieties with variegated leaves only: secondary color

[TO BE PROVIDED]

Ad 18: Varieties with variegated leaves only: area of secondary color in relation to main color

[TO BE PROVIDED]

Ad. 19: Varieties with variegated leaves only: third color (if present)

[TO BE PROVIDED]

Ad. 20: Varieties with variegated leaves only: area of third color in relation to secondary color

[TO BE PROVIDED]

Ad. 21: Leaf blade: pattern of total variegation

[TO BE PROVIDED]

Ad. 22: Leaf blade: cross section

[TO BE PROVIDED]

Ad. 23: Leaf blade: venation

[TO BE PROVIDED]

Ad. 24: Leaf blade: number of clearly visible parallel veins

[TO BE PROVIDED]

Ad. 28: Leaf blade: undulation of margin

[TO BE PROVIDED]

Ad. 31: Inflorescence: attitude of flowers

[TO BE PROVIDED]

Ad. 41: Perianth: length

[TO BE PROVIDED]

Ad. 43: Perianth: shape in side-view

[TO BE PROVIDED]

Ad. 45: Perianth tube: color of outer side

[TO BE PROVIDED]

9. Literature

Grenfell, D. and Shadrack, M., 2004: The Color Encyclopedia of Hosta's. Timber Press, Cambridge, UK, 407 pp.

to be completed

10. Technical Questionnaire

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
		Application date: (not to be filled in by the applicant)
<p>1. Subject of the Technical Questionnaire</p> <p>1.1 Botanical name <input type="text" value="Hosta Tratt."/></p> <p>1.2 Common name <input type="text" value="Plantain Lily"/></p>		
<p>2. Applicant</p> <p>Name <input type="text"/></p> <p>Address <input type="text"/></p> <p>Telephone No. <input type="text"/></p> <p>Fax No. <input type="text"/></p> <p>E-mail address <input type="text"/></p> <p>Breeder (if different from applicant) <input type="text"/></p>		
<p>3. Proposed denomination and breeder's reference</p> <p>Proposed denomination (if available) <input type="text"/></p> <p>Breeder's reference <input type="text"/></p>		

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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#4. Information on the breeding scheme and propagation of the variety

4.1 Breeding scheme

Variety resulting from:

4.1.1 Crossing

(a) controlled cross []
(please state parent varieties)

(b) partially known cross []
(please state known parent variety(ies))

(c) unknown cross []

4.1.2 Mutation []
(please state parent variety)

4.1.3 Discovery and development []
(please state where and when discovered
and how developed)

4.1.4 Other []
(please provide details)

4.2 Method of propagating the variety

4.2.1 Vegetative propagation

(a) cuttings []

(b) *in vitro* propagation []

(c) other (state method) []

4.2.2 Seed []

4.2.3 Other []
(please provide details)

Authorities may allow certain of this information to be provided in a confidential section of the Technical Questionnaire.

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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5. Characteristics of the variety to be indicated (the number in brackets refers to the corresponding characteristic in Test Guidelines; please mark the note which best corresponds).

Characteristics	Example Varieties	Note
5.1 Plant: height (inflorescence excluded) (2)		
very short		1[]
short		3[]
medium		5[]
tall		7[]
very tall		9[]
5.4 Leaf blade: shape (10)		
very narrow oblong (linear)		1[]
very narrow ovate (lanceolate)		2[]
narrow ovate		3[]
ovate		4[]
broad ovate		5[]
round		6[]
narrow elliptic		7[]
elliptic		8[]
broad elliptic		9[]
5.2 Leaf blade: variegation (14)		
absent		1[]
present		9[]

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:	
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Characteristics	Example Varieties	Note	
5.3 Leaf blade: pattern of total variegation (21)			
flamed		1[]	
striped		2[]	
spotted		3[]	
in sectors		4[]	
marbled		5[]	
streaked		6[]	
6. Similar varieties and differences from these varieties <i>Please use the following table and box for comments to provide information on how your candidate variety differs from the variety (or varieties) which, to the best of your knowledge, is (or are) most similar. This information may help the examination authority to conduct its examination of distinctness in a more efficient way.</i>			
Denomination(s) of variety(ies) similar to your candidate variety	Characteristic(s) in which your candidate variety differs from the similar variety(ies)	Describe the expression of the characteristic(s) for the similar variety(ies)	Describe the expression of the characteristic(s) for your candidate variety
<i>Example</i>	<i>Flower color</i>	<i>orange</i>	<i>orange red</i>
<i>to be completed</i>			
Comments:			

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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#7. Additional information which may help in the examination of the variety

7.1 In addition to the information provided in sections 5 and 6, are there any additional characteristics which may help to distinguish the variety?

Yes []

No []

(If yes, please provide details)

7.2 Are there any special conditions for growing the variety or conducting the examination?

Yes []

No []

(If yes, please provide details)

7.3 Other information

A representative color photograph of the variety should accompany the Technical Questionnaire

8. Authorization for release

(a) Does the variety require prior authorization for release under legislation concerning the protection of the environment, human and animal health?

Yes []

No []

(b) Has such authorization been obtained?

Yes []

No []

If the answer to (b) is yes, please attach a copy of the authorization.

Authorities may allow certain of this information to be provided in a confidential section of the Technical Questionnaire.

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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9. Information on plant material to be examined or submitted for examination.

9.1 The expression of a characteristic or several characteristics of a variety may be affected by factors, such as pests and disease, chemical treatment (e.g. growth retardants or pesticides), effects of tissue culture, different rootstocks, scions taken from different growth phases of a tree, etc.

9.2 The plant material should not have undergone any treatment which would affect the expression of the characteristics of the variety, unless the competent authorities allow or request such treatment. If the plant material has undergone such treatment, full details of the treatment must be given. In this respect, please indicate below, to the best of your knowledge, if the plant material to be examined has been subjected to:

(a) Microorganisms (e.g. virus, bacteria, phytoplasma)	Yes []	No []
(b) Chemical treatment (e.g. growth retardant, pesticide)	Yes []	No []
(c) Tissue culture	Yes []	No []
(d) Other factors	Yes []	No []

Please provide details for where you have indicated “yes”.

.....

9.3 Has the plant material to be examined been tested for the presence of virus or other pathogens?

Yes []

(please provide details as specified by the Authority)

No []

10. I hereby declare that, to the best of my knowledge, the information provided in this form is correct:

Applicant's name

Signature <input style="width: 150px; height: 20px; border: 1px solid black;" type="text"/>	Date <input style="width: 100px; height: 20px; border: 1px solid black;" type="text"/>
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[End of document]