



**TWO/49/23**

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**INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS**

Geneva

**TECHNICAL WORKING PARTY FOR ORNAMENTAL PLANTS AND FOREST TREES**

**Forty-Ninth Session**

**Gimcheon City, Republic of Korea, June 13 to 17, 2016**

**CREATION OF ILLUSTRATIONS FOR TEST GUIDELINES**

*Document prepared by the Office of the Union*

*Disclaimer: this document does not represent UPOV policies or guidance*

The Annex to this document contains a copy of the presentation "Creation of illustrations for Test Guidelines" to be made by an expert from the Republic of Korea at the forty-ninth session of the Technical Working Party for Ornamental Plants and Forest Trees (TWO).

[Annex follows]

CREATION OF ILLUSTRATIONS FOR TEST GUIDELINES

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### Background

- Hard work for preparing the draft of Test guideline
- Useful in the presence of diagram in “Explanations for individual characteristics” of TG, when a photograph is not available or outer line is vague
- In the Republic of Korea, active use of Microsoft Powerpoint illustration rather than hand drawing, when preparing the diagram in National TG
  - Enabling re-use of the illustration with minor modification in existing TG

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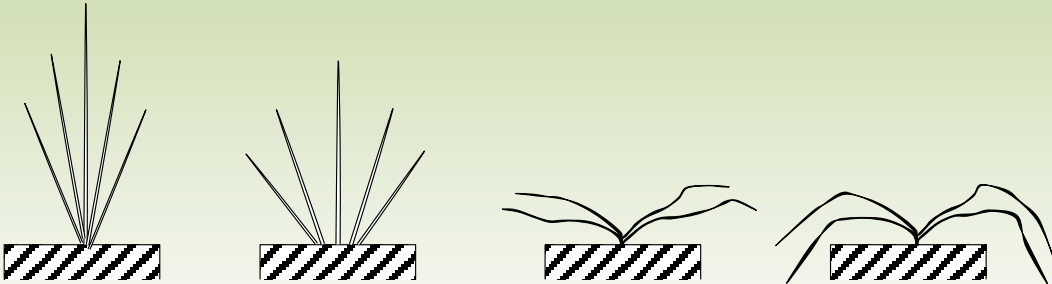
### Introduction

- Introduction of existing Microsoft Powerpoint illustration in the Republic of Korea
- Modifying methods of Powerpoint illustration
  - Create line & area : straight, curve, free
  - Edit shape : insert, delete, edit point & segment
  - Minor modification : with "Alt" key
  - Transformation : size, ratio, rotation
  - Repetition : Copy & paste



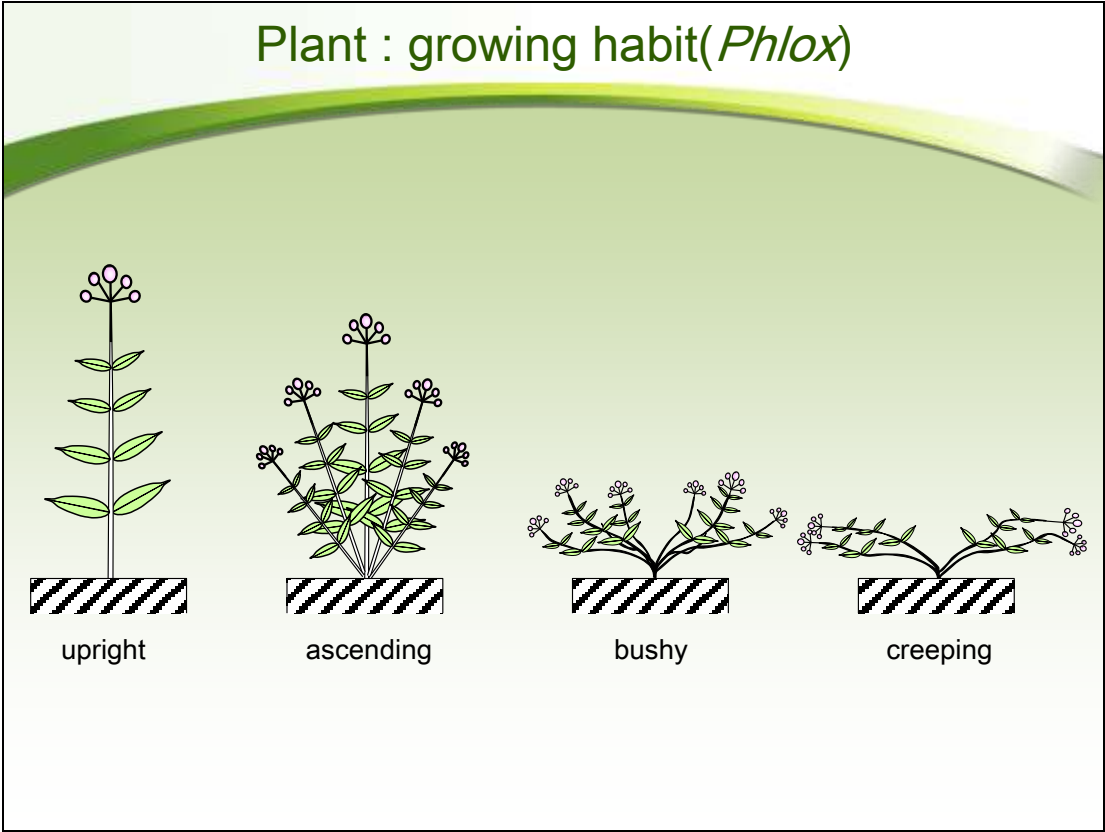
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### Plant : growing habit

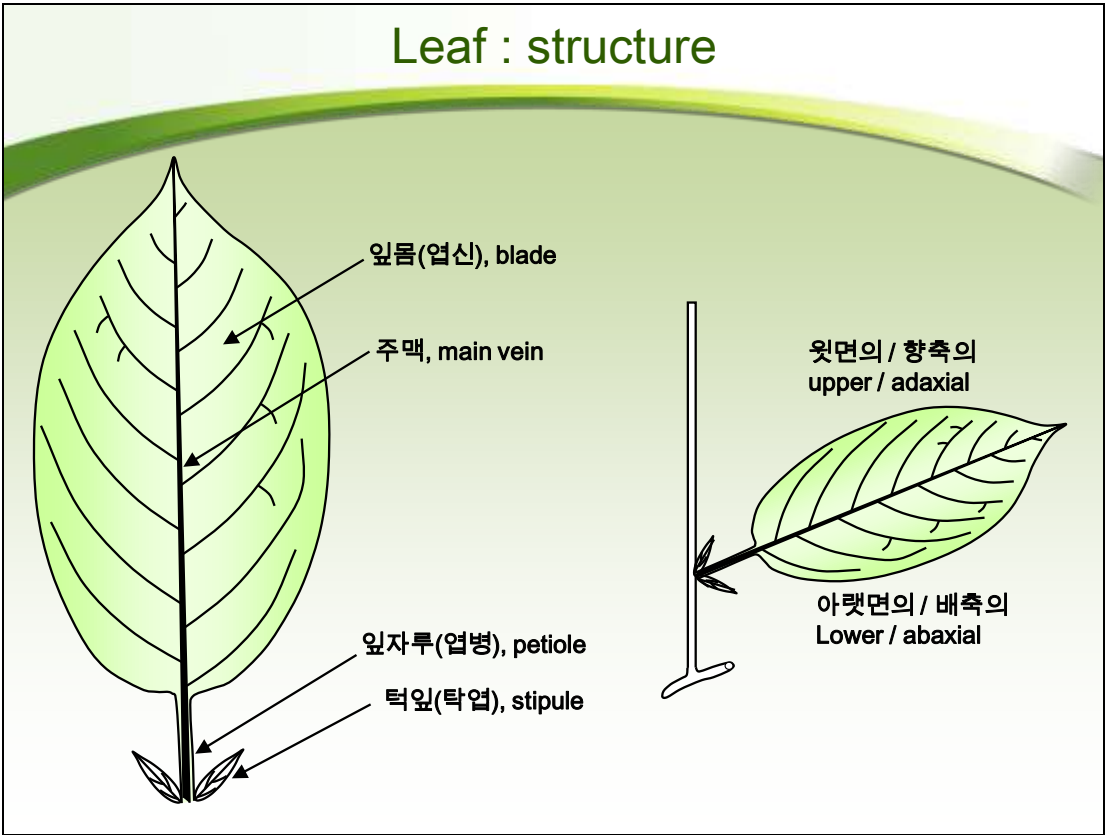


upright      bushy, shrubby      spreading, creeping      drooping, weeping

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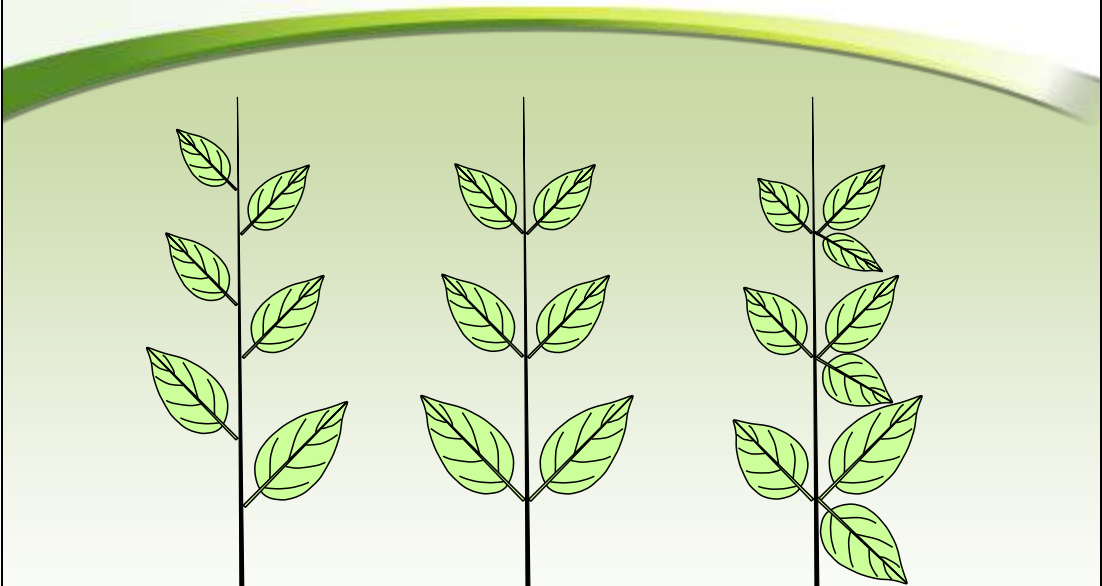


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### Leaf : arrangement




The diagram illustrates three types of leaf arrangements on a stem. The first shows alternate leaves, where leaves are attached to the stem at different points and angles. The second shows opposite leaves, where leaves are attached to the stem at the same point but on opposite sides. The third shows verticillate leaves, where leaves are attached to the stem at the same point and radiate outwards.

어긋나기(호생)  
alternate마주나기(대생)  
opposite돌려나기(윤생)  
verticillate

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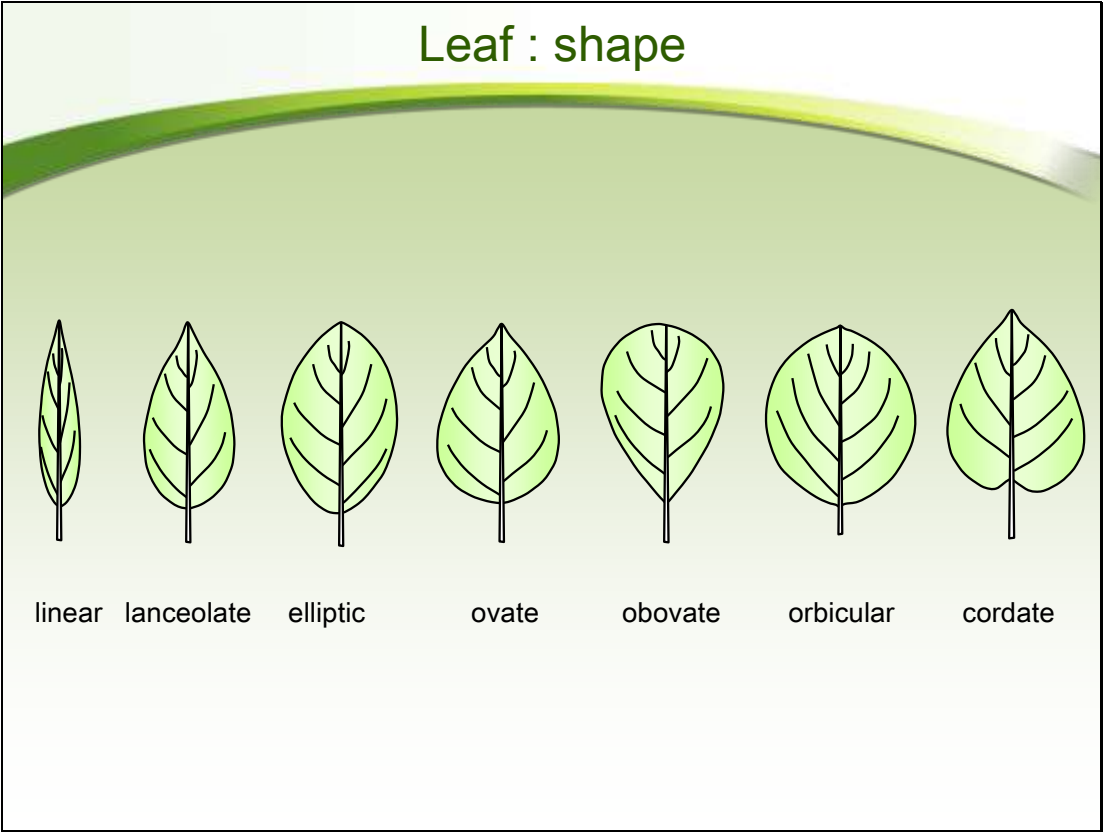
### Leaf : leaflet



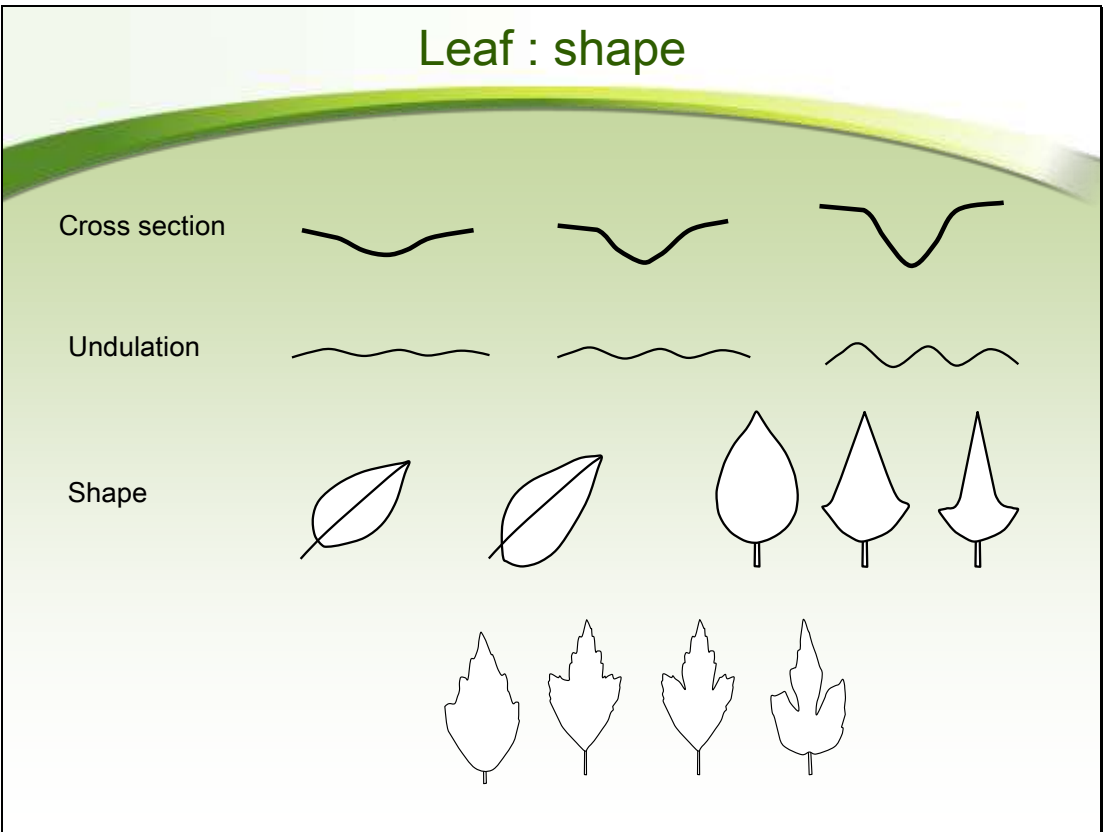
The diagram illustrates four types of leaflets. The first is an odd pinnately compound leaf, where a central axis has several pairs of leaflets and one terminal leaflet. The second is an even pinnately compound leaf, where a central axis has several pairs of leaflets. The third is a palmately compound leaf, where several leaflets are attached to a single central point. The fourth is a trifoliate leaf, where three leaflets are attached to a single central point.

odd pinnately  
compound leafeven pinnatelypalmatelytrifoliate

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**Leaf : shape of tip**

The diagram illustrates six different leaf tip shapes. Each shape is shown as a green leaf with a central vein and lateral veins. The tips are: 1. acuminate: a long, narrow, tapering point; 2. acute: a sharp, pointed tip; 3. obtuse: a blunt, rounded tip; 4. rotundate: a tip that is rounded and slightly wider than the rest of the leaf; 5. retuse: a tip that is slightly indented or notched; 6. cuspidate: a tip that is pointed and has a small, sharp projection or 'beak' at the apex.

acuminate      acute      obtuse      rotundate      retuse      cuspidate

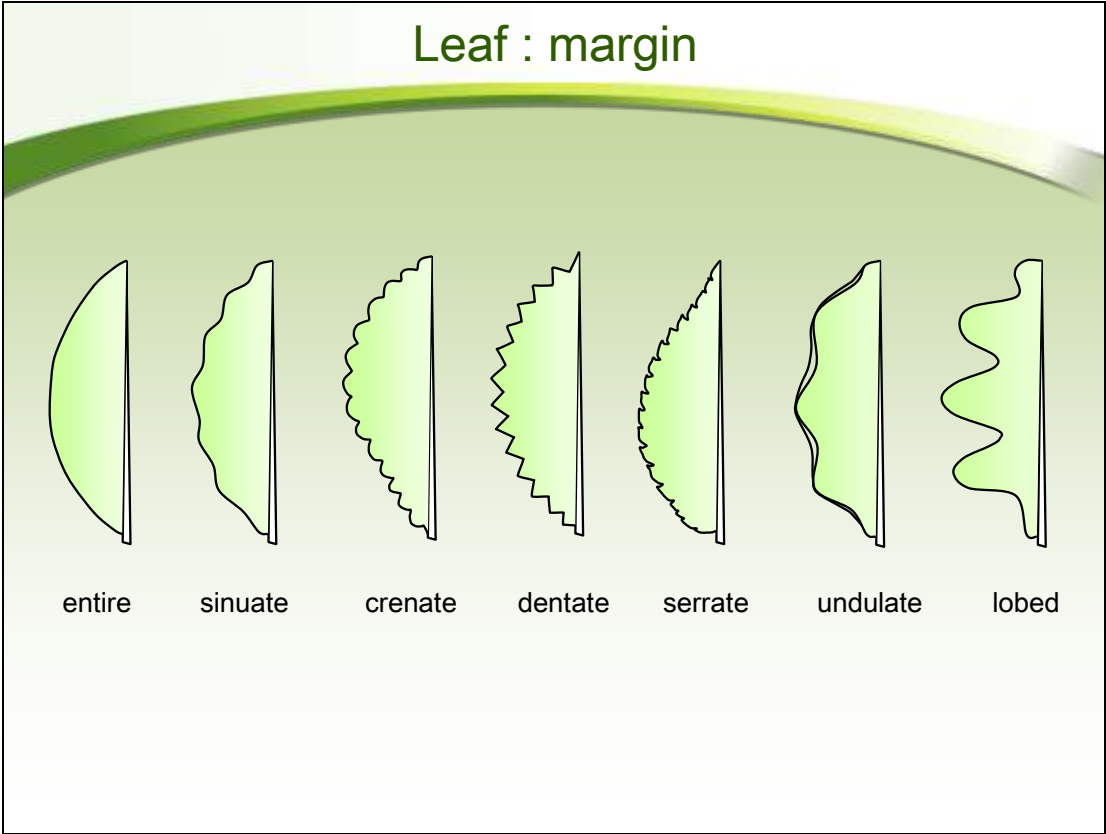
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**Leaf : shape of base**

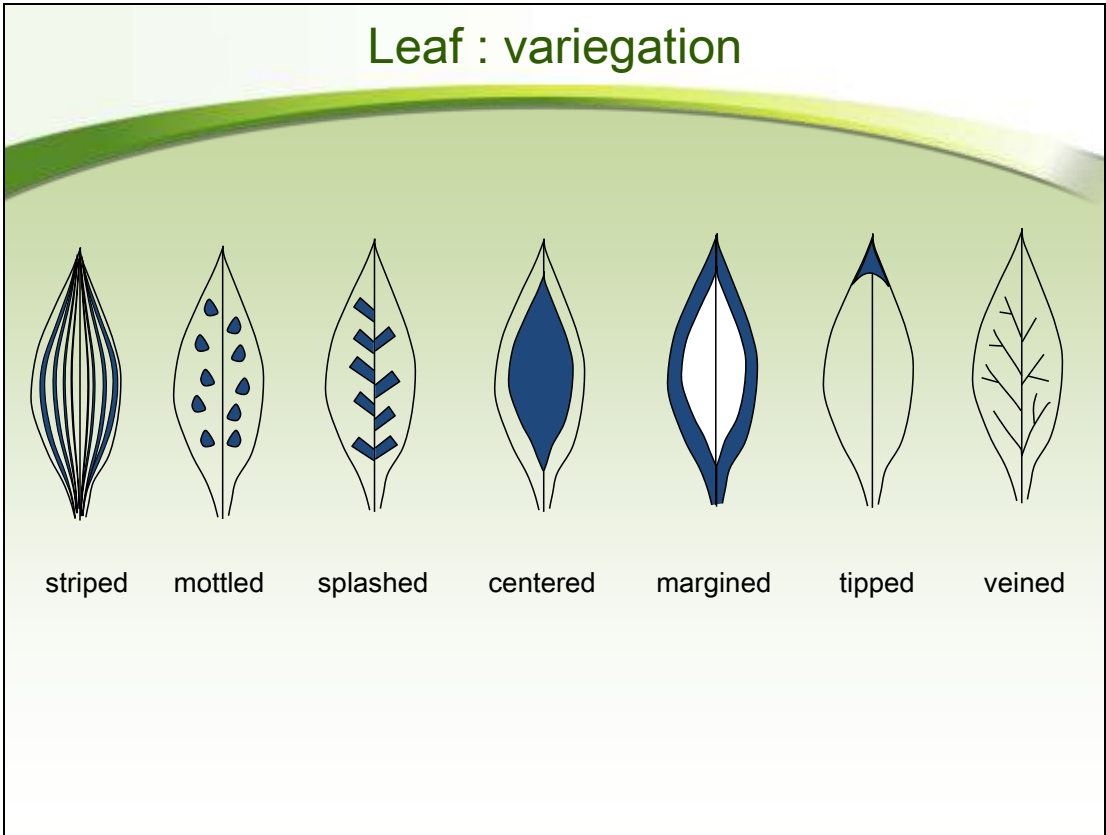
The diagram illustrates six different leaf base shapes. Each shape is shown as a green leaf with a central vein and lateral veins. The bases are: 1. cuneate: a base that tapers to a point at the petiole; 2. acute: a base with a sharp angle at the petiole; 3. obtuse: a base with a blunt angle at the petiole; 4. rotundate: a base that is rounded at the petiole; 5. truncate: a base that is flat or slightly concave at the petiole; 6. cordate: a base that is heart-shaped, with the notch at the petiole.

cuneate      acute      obtuse      rotundate      truncate      cordate

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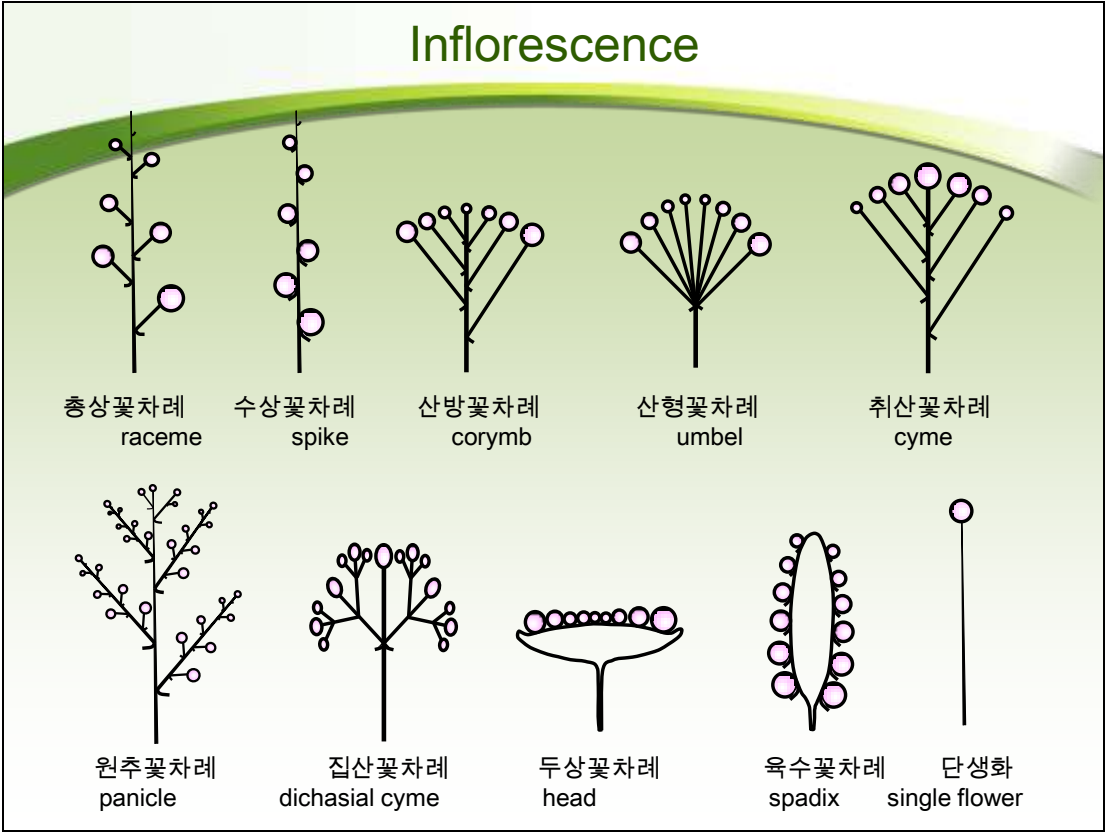


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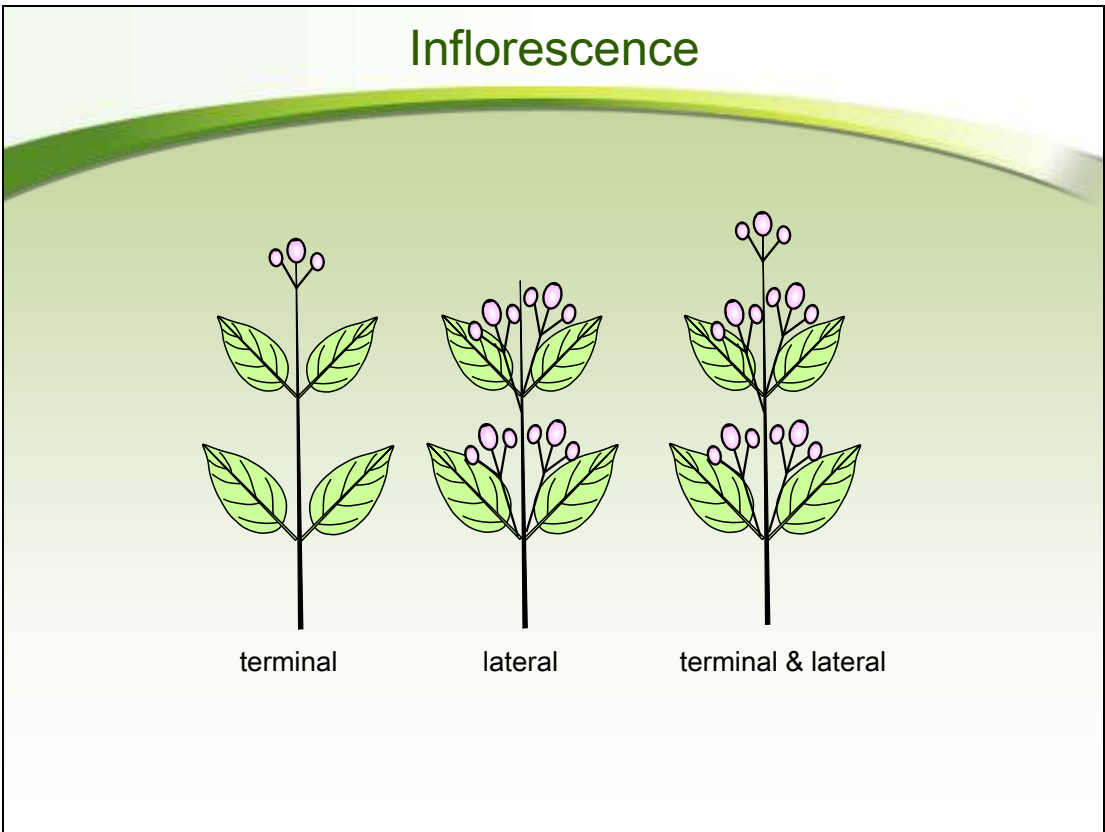




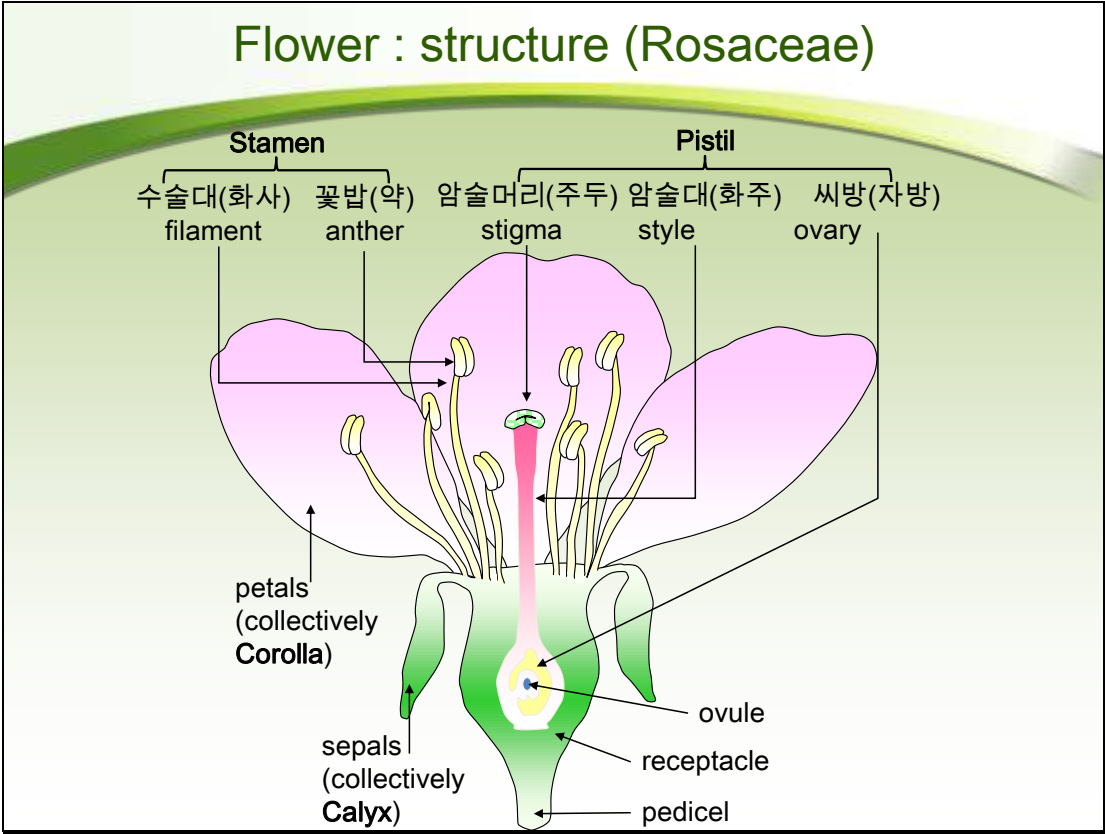
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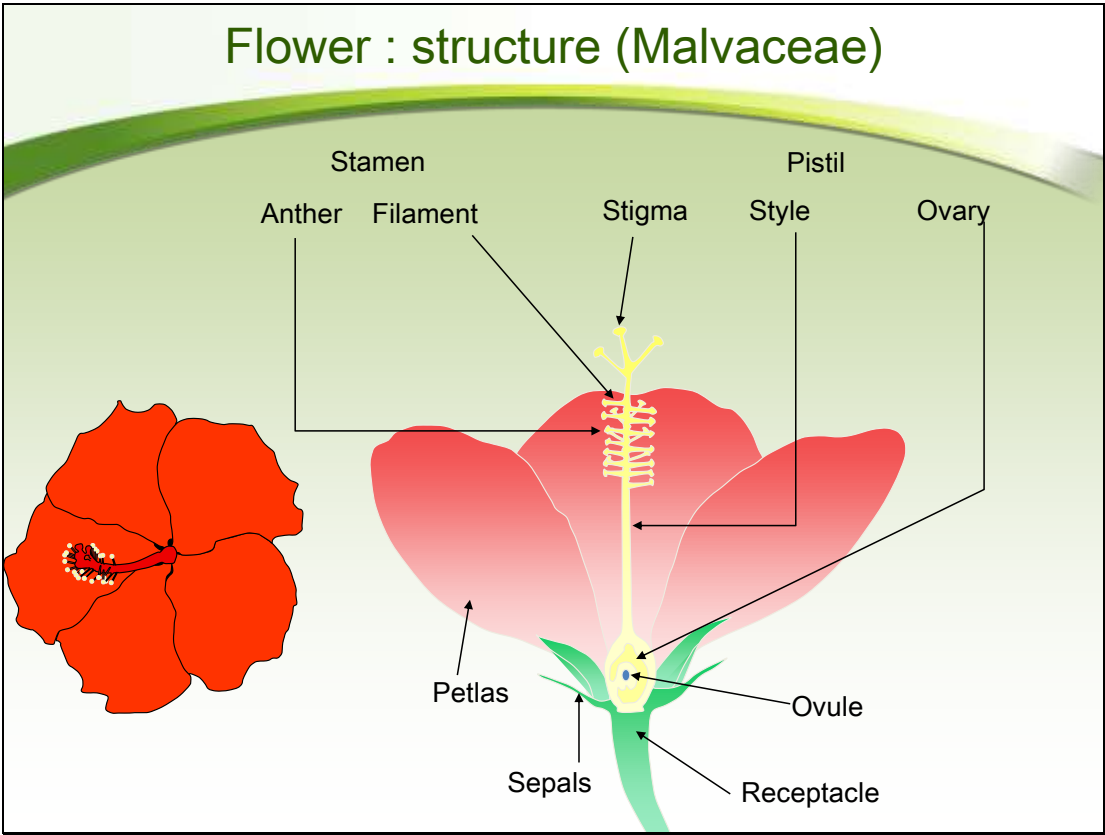
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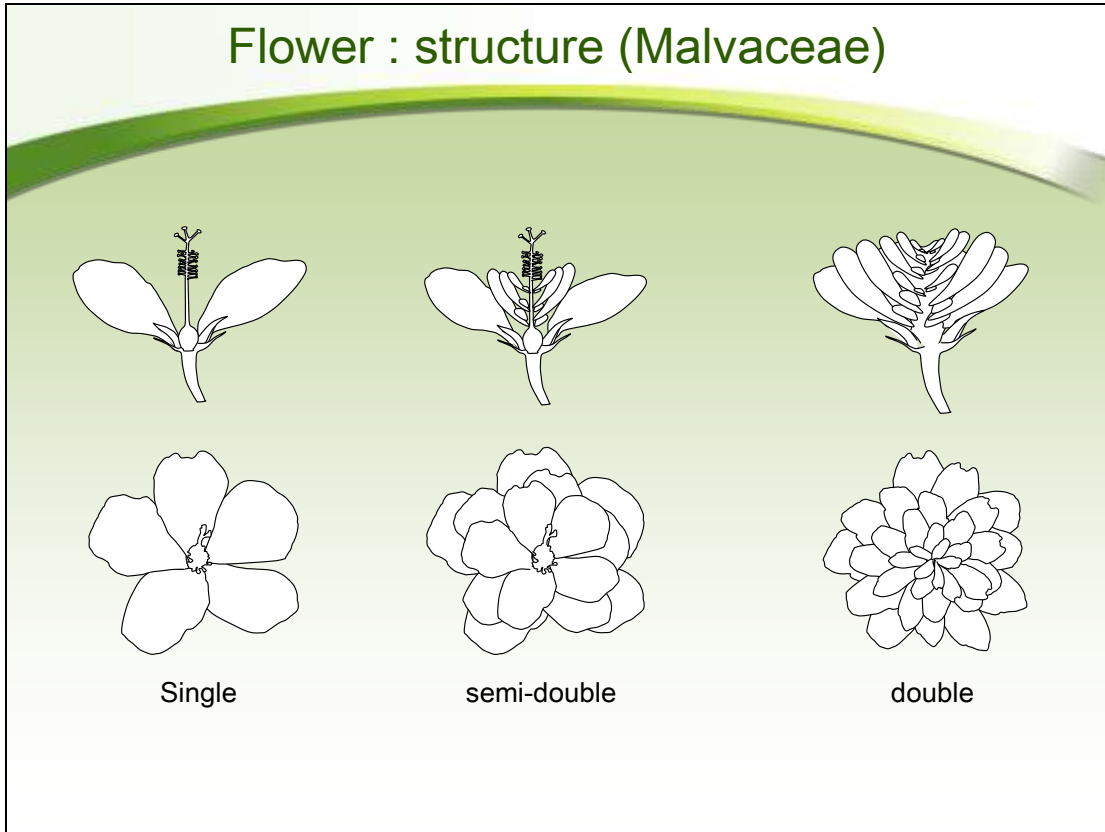
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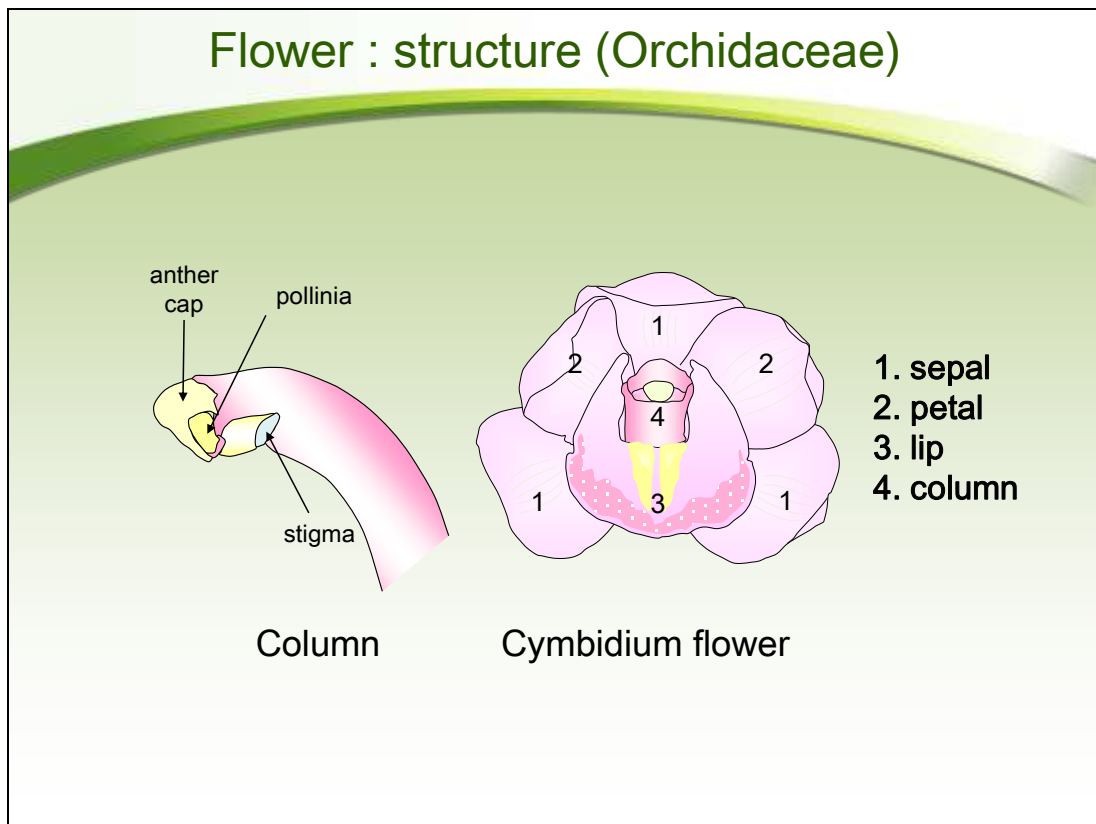
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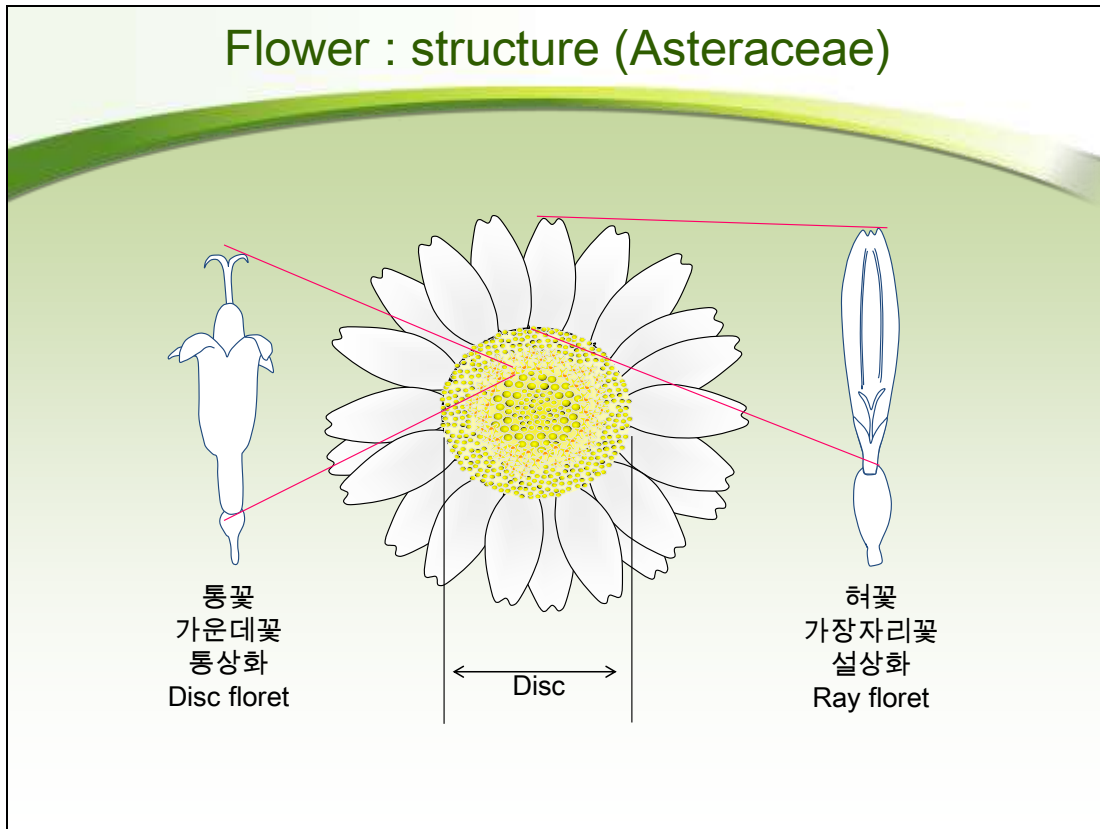
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### Suggestion

- The Republic of Korea willingly provide our drawn illustration with Powerpoint for the convenience of preparing the draft UPOV TG with some modification
- The Republic of Korea suggest the use of Powerpoint illustration with freely accessible form in UPOV TG template



[End of Annex and of document]