

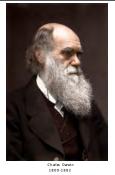
#### Horticulture Defined

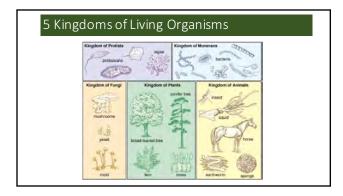
- hortus (garden) + colere (to cultivate)
- Culture of Gardens vs. Fields of Crops
- Fruits, Vegetables, Ornamentals, Herbs, Specialty Crops







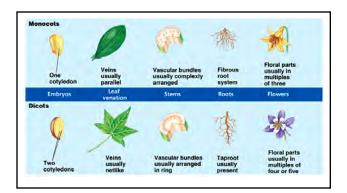


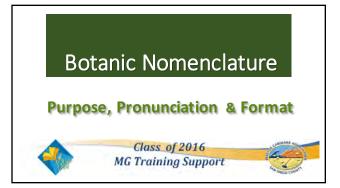


#### What is a Plant?

- Member of the kingdom Plantae
- Living, immobile, no conscious
- Rigid cell walls made of cellulose
- Can regenerate lost tissues and orgar.
- Carry out photosynthesis
- They are able to make their own food (autotrophs)

# The Evolution of Plants Characteristics Discrete Characteristics Characteristics Discrete Characteristics Discrete Characteristics Discrete Characteristics Discrete Characteristics Discrete Di





#### Why use Botanic Names?

- Botanic names use the same language worldwide: Latin
- Botanic names do not have multiple meanings
- Many botanic names have specific meaning



#### What's in a Latin name?

alba – white alpestris - alpine bellus – beautiful broccolo – flowering top caerule – dark blue candicans – hairy or wooly cereus - waxy coccineu – scarlet cordata – heart shaped crassu – fleshy, thick

dulcis – sweet edulis – edible flavens – yellowish
glaber – smooth; without hairs
heli – sun
imbricata – overlapping,like scales
ingens – enomous
obesus – fat
phylla – leaves (pertaining to)
repens – crawling, creeping
ericeus - silky
serpens – creeping, snakelike
vulgaris - common

 $ferox-very\ thorny$ 

| What do these 3 plants |
|------------------------|
| have in common?        |

- Poison Oak
- Silky Oak
- She Oak

# What do these 3 plants have in common?

- California Pepper
- False Pepper
- Peppercorn Tree

| <br> |  |
|------|--|
|      |  |
|      |  |

#### **Pronunciation Facts**

- Horticulturists don't always agree on pronunciation
- Individual botanists rarely are completely consistent in pronunciation
- People tend to pronounce names the way they first learned them regardless of any subsequently encountered info



Can you say:

Chrysanthemum

#### Botanic Name Pronunciation

How do you say: Tomato? Basil? Protea?

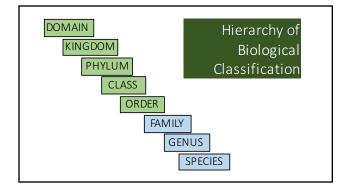
Alyogyne huegelii?

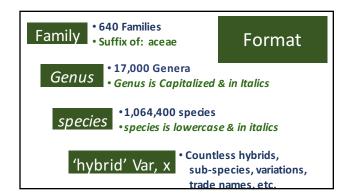
Try this web site: davesgarden.com

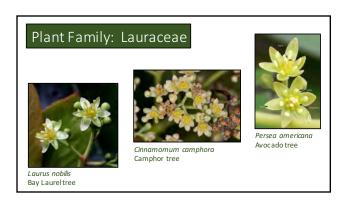
PlantFiles: Blue Hibiscus, Lilac Hibiscus, Purple Hibiscus, California Hibiscus Alyogyne huegelii'Santa Cruz'

Family: Malvaceae (mal-VAY-see-ee) (info) Genus: Alyogyne (al-ly-oh-GY-nee) (info) Species: huegelli (hew-GEL-ee-eye) (info) Cultivar: Santa Cruz









| Lavandula stoechas 'Otto Quast'                                     | Family: Lamiaceae              |  |
|---|--------------------------------|--|
| Laurena durla   | • Mint Family •Flavorful herbs |  |
| Lavandula • Lavender  (Genus) (lav-AN-dew-lah)                      | •Many with square stems        |  |
| stoechas • Spanish lavender   |                                |  |
| (species) (STOW-kass)  'Otto Quast' • Name of person who            | MY XX                          |  |
| 'Otto Quast' ('Hybrid')  'Name of person who discovered this hybrid |                                |  |
|   |                                |  |

#### Common Abbreviations

Lavandula stoechas, Lavandula canariensis, Lavandula dentate or..... Lavandula stoechas, L. canariensis, L. dentate

Lavandula sp. – Used when referring to  $\underline{\text{one}}$  unknown species of Lavandula

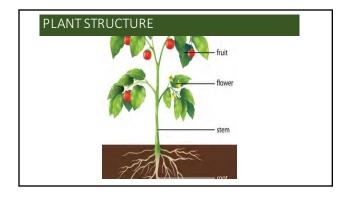
 $\begin{array}{ll} \textit{Lavandula ssp.} & - \text{Used when referring to } \underline{\text{many}} \text{ unknown species} \\ & \text{of } \textit{Lavandula} \end{array}$ 

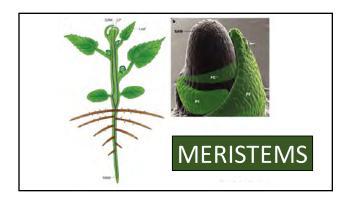
### Another Helpful Web Site

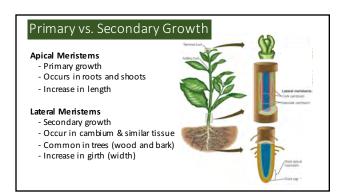
#### **Tropicos.org**

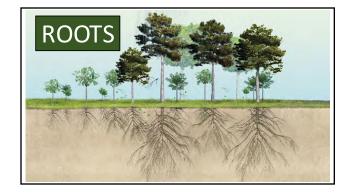
Search for Botanic Names... all Genera within a Family, all Species within a Genus, etc.

A Web Site of Missouri Botanical Garden

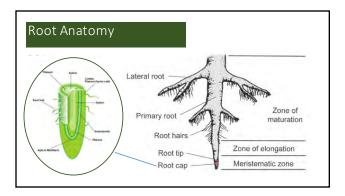








# • Take up water and nutrients • Store excess food • Anchor the plant • Synthesize essential compounds • Reproductive organ

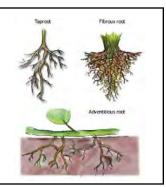


#### Types of Roots

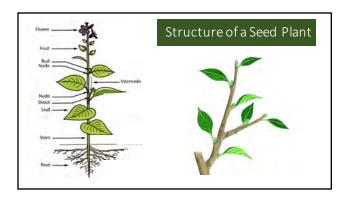
**Taproot** —absorbs water deep in the ground (root vegetables, trees)

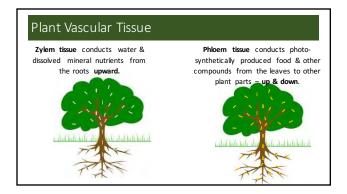
**Fibrous** roots stay close to the top of the soil (bedding plants, tomato)

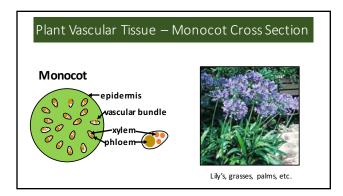
Adventitious roots help anchor plant or help plant climb (strawberries, ivy,some grasses)

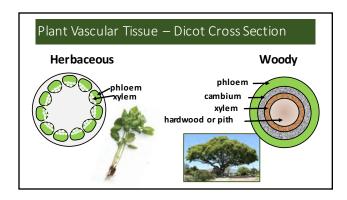


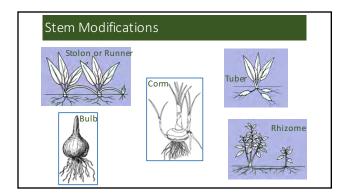






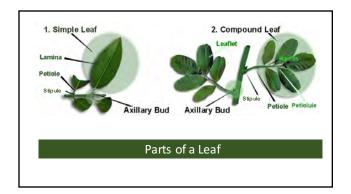


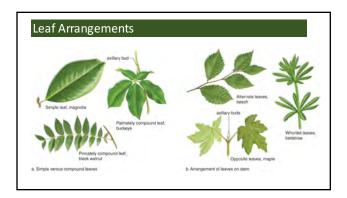


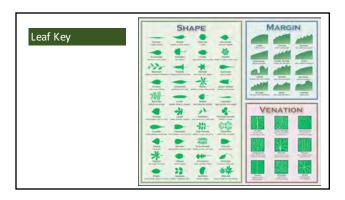


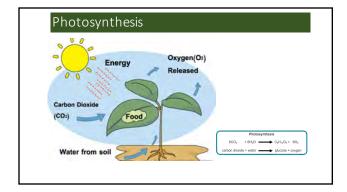


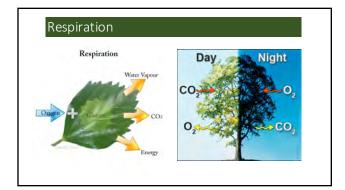


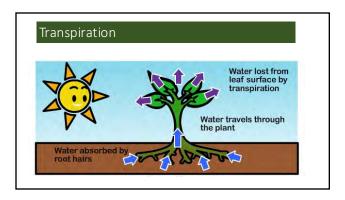




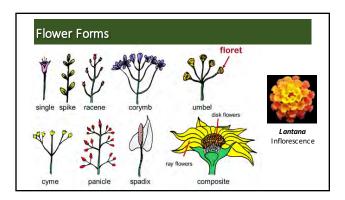




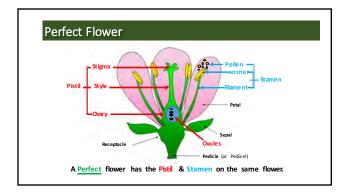


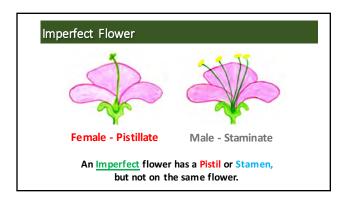


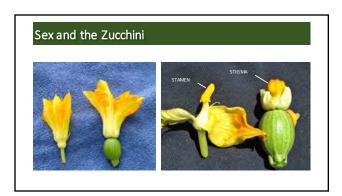


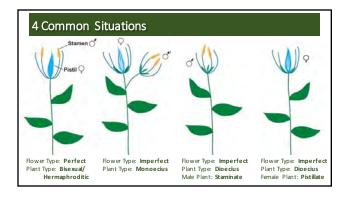


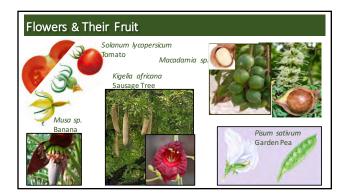




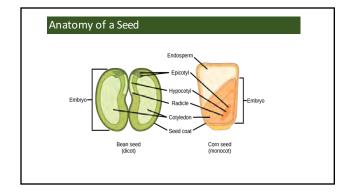


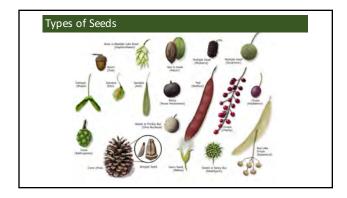


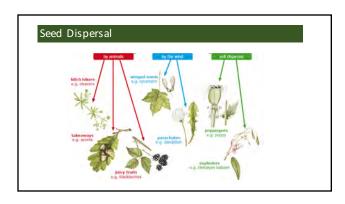












#### Classification of Plants

- Growth Habit annuals, perennials, biennials
- Structure or Form woody, herbaceous, vine, shrub, tree
- Leaf Retention evergreen, deciduous
- Climatic Adaptation tropical, subtropical, temperate
- Use ornamental, edible, native

## What's That Bloomin' Thing?



Class of 2016 MG Training Support



#### Purpose

- Learn to identify common plants in S.D. County
- Increase your knowledge of Plant Families

#### Procedure

- You will be given a presentation schedule
  - Be prepared at least one week ahead to allow time for additional presentations
  - You can swap your plant/date with another trainee's plant/date

Have Fun & Keep it Simple!

#### Procedure

- Oral presentation will be four minutes maximum.
- Report only the distinguishing, significant, unusual, and fascinating aspects of your plant.
- Provide a written 1-2 page report to be uploaded to the Training Website.

Have Fun & Keep it Simple!

#### Procedure

- You can do the following:
  - Bring plant samples
  - Do a PowerPoint
  - Draw your flower

Have Fun & Keep it Simple!

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