



Binomial Nomenclature

The Classification of
Plants

Six kingdoms

- ❖ Plants
- ❖ Animals
- ❖ Protista
- ❖ Fungi
- ❖ Eubacterium
- ❖ Archae



The Six kingdoms-a video

http://www.youtube.com/watch?v=Dxukn2xFKwo&playnext=1&list=PL3C3F82E245DE5064&feature=results_main



Carl von Linne Carl Linnaeus



Portrait of Carl Linnaeus at 32 by J. H. Scheffel. Oil Painting, 1739. Reproduction courtesy Uppsala University Art Collections

Carl Linneaus

<http://www.youtube.com/watch?v=Gb IO-SzLgk>



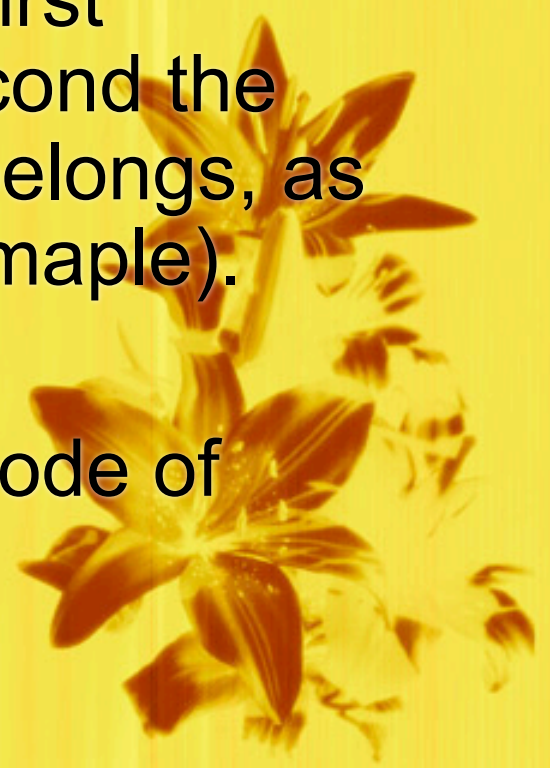
Your Professor: Michael Pascoe



Binomial Nomenclature

A system for naming living organisms by means of two Latin names: the first indicating the genus and the second the species to which the organism belongs, as in ***Acer saccharum*** (the sugar maple).

Governed by the International Code of Botanical Nomenclature (ICBN).



The Classification of Plants

Kingdom

Division

Class

Subclass

Order

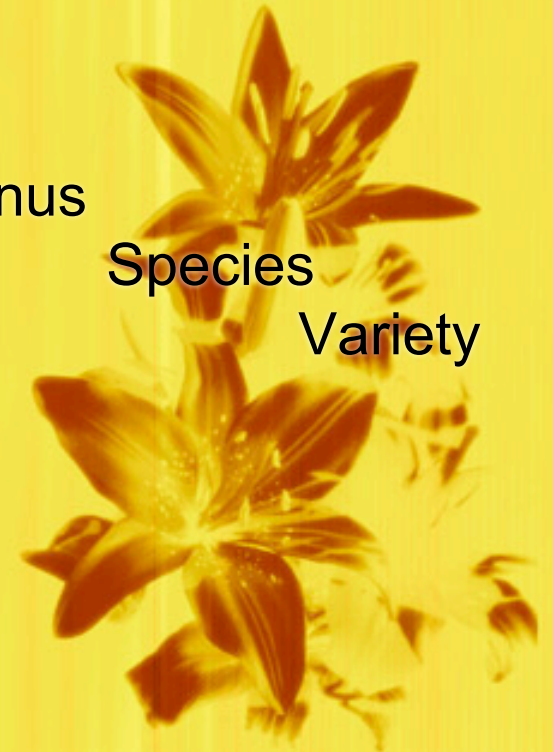
Family

Genus

Species

Variety

(Cultivar)



The Classification of Plants

Kingdom- Plant

Division-**Tracheophyta**

Class-**Angiosperme**

Subclass-**Dicotyledoneae**

Order-**Cornales**

Family-**Cornacea**

Genus-***Cornus***

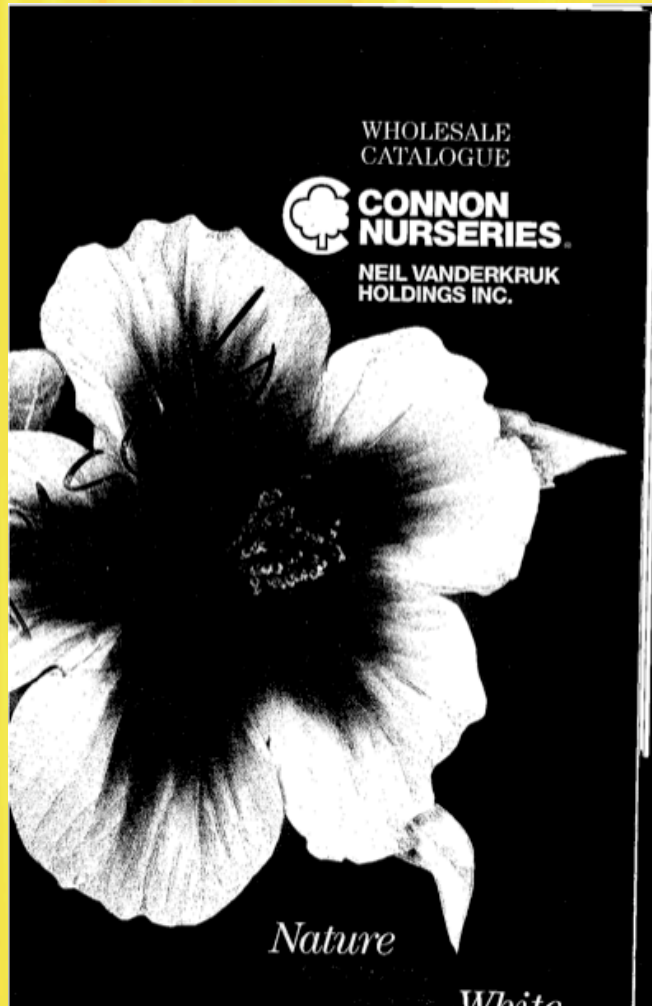
Species- ***C. florida***

Variety- ***C. f. var. rubra***

(Cultivar) 'Comco NO. 1'



Binomial Nomenclature-In the industry



The Nursery
Catalogue



Binomial Nomenclature in the Classroom-Industry

- ❖ Family
 - ❖ Genus
 - ❖ Species
 - ❖ Variety, subspecies
 - ❖ Cultivar



Binomial Nomenclature in the Classroom-Industry

❖ Family

A broad classification that will help us understand distant plant group characteristics.



Binomial Nomenclature in the Classroom-Industry

❖ Genus

A broad classification of plants with slightly similar characteristics.



Binomial Nomenclature in the Classroom-Industry

❖ Species

A group of plants with identical characteristics able to breed and produce similar offspring.



Binomial Nomenclature in the Classroom-Industry

❖ Variety

A group that is distinguished from other groups by a specific characteristic or set of characteristics.



Binomial Nomenclature in the Classroom-Industry

❖ Subspecies

Usually occurs because of isolation within a species.



Binomial Nomenclature in the Classroom-Industry

❖ Cultivar

A plant that has been created or selected intentionally and maintained through cultivation, it usually cannot reproduce if left to its own devices.



The Rules: Writing Plant Names

❖ Family

Capitalize, lower case



The Rules: Writing Plant Names

❖ Genus

Cornus

Capitalize, lower case (if in print media use italics)



The Rules: Writing Plant Names

❖ Species *florida*

Lower case (if in print media use italics)



The Rules: Writing Plant Names

❖ Variety: var. *rubra*

Lower case (if in print media use italics)

Variety is written as var.



The Rules: Writing Plant Names

- ❖ Subspecies: *ssp.*
- ❖ A rare occurrence

Lower case (if in print media use italics)
Subspecies is written as *ssp.*



The Rules: Writing Plant Names

❖ Cultivar 'Columnare'

Capitalized and single quotes



Breaking the Plant Naming Rules

❖ *Viburnum xjuddii*

❖ *Buddleia* x 'Blue Chip' Lo & Behold™

❖ LUCIA® Lavendar Blush *Lobelia erinus*

