

Fire Engine Red, Russet and Bronze



I'm Adam



**BROKEN
ARROW**



NURSERY

I'M A PLANT FANATIC



I'm fascinated by the world of plants



I seek out the rare and new!



These botanical curiosities
are my passion.



I like to grow things.....





PDF of Presentation

brokenarrownursery.com/lecture-slides

Password = rainfall

The Plan

- 1) How does autumn color happen?
- 2) A selection of the best trees and shrubs for fall color interest
- 3) Tips for success including overwintering



How Does Autumn Color Happen?



3 Big Factors

- 1) Leaf color pigments
- 2) Length of night
- 3) weather



Leaf Color Pigments

A) Chlorophyll –

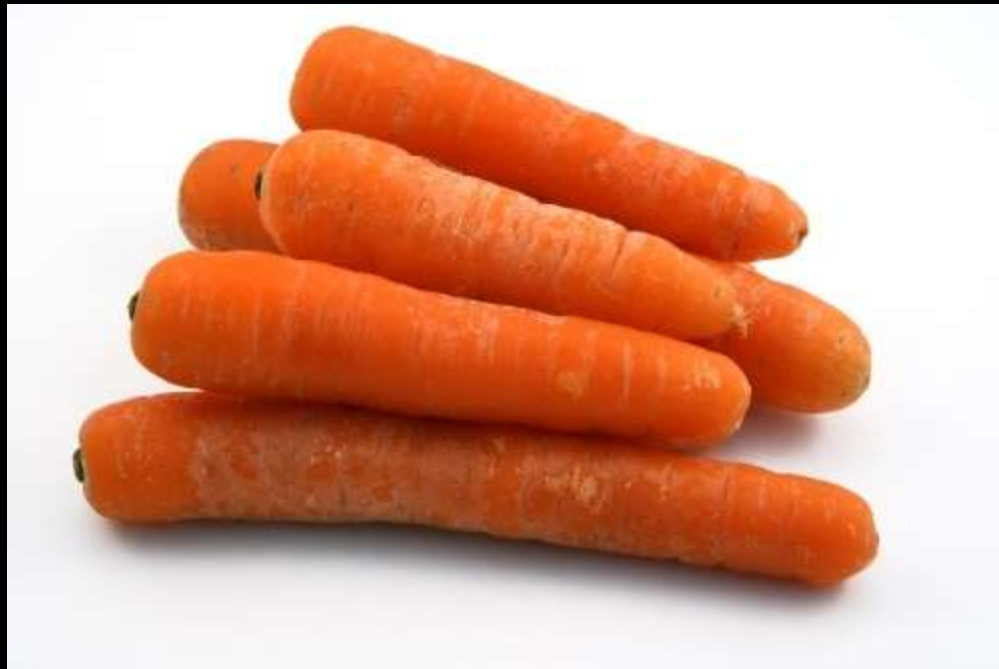
- Gives leaves their basic green color.
- Necessary for photosynthesis.



Leaf Color Pigments

B) Carotenoids –

- produce yellow, orange, and brown colors.
- common in corn, carrots, and daffodils.



Leaf Color Pigments

C) Anthocyanins –

- produce purple and blue color
- Give color to cranberries, red apples, grapes, blueberries, strawberries, and plums.



How Does It Work?

- During the growing season, all three pigments are continually produced in leaves
- Chlorophyll is generally produced in the greatest abundance giving leaves their green color.

- In autumn, chlorophyll production stops.
 - Influenced by reduced daylength
- The carotenoids and anthocyanins that are present in the leaf are then unmasked and show their colors.







The Role of Weather.....

- Temperature and moisture are the main influences
- Cool, crisp (but not freezing nights) bring on most intense colors
- Warm, wet springs and favorable summer conditions promote the best fall colors

A Selection of My Favorite Trees and Shrubs for Fall Color Interest!



Trees

“The best time to plant a tree is twenty years ago. The second best time is now.”

- Proverb



Acer palmatum – Japanese Maple















Acer rubrum – red maple













Acer saccharum – sugar maple

















Franklinia alatamaha – franklin tree













Ginkgo biloba - Ginkgo









‘Variegata’



Larix kaempferi 'Pendula'

















Liquidambar styraciflua - sweetgum











Nyssa sylvatica - blackgum









'Autumn Cascades'





Oxydendrum arboreum - sourwood













Parrotia persica – persian ironwood















Sassafras albidum - sassafras

















Stewartia pseudocamellia - stewartia

















Shrubs

- A weed is a plant that has mastered every survival skill except for learning how to grow in rows.

- Doug Larson



Abelia mosanensis – Hardy Abelia











Cotinus coggygria - smokebush









Disanthus cercidifolius - disanthus













'Ena Nishiki'



Enkianthus campanulatus
redvein enkianthus







'Albiflorus'





‘Showy Lanterns’









Fothergilla x intermedia
'Blue Shadow'













Hydrangea quercifolia
Oakleaf Hydrangea













'Little Honey'





'Snowflake'







Lindera angustifolia











Rhus typhina – staghorn sumac

















'Bailtiger' Tiger Eyes®





Vaccinium corymbosum
highbush blueberry

















Questions?





OTHER TALKS



- A Riot of Color; Outstanding Foliage to Build the Garden
- Fun with Color: Variegated Plants in the Garden
- Weeping, Creeping and Sprawling; Pendulous Plants in the Garden.
- I Like It, I Love It and the Deer Don't Eat It!
- The Magical Witches of Winter; A look at the Genus *Hamamelis*

