



Color of Fall Leaves



(Allegro BT)

Why do leaves change color in the fall? Is the cold a contributing factor? What determines the ultimate color of a leaf? Is the change due to an absence of chlorophyll or the presence of something else? (font: Monotype Corsiva)

This will be a partial answer. called carotenes, the same color of carrots.

There are several and they are present in the leaves them in the fall because the the leaves stops. I think not directly the presence of seems to depend on the plant. experiment to see what events Clearly the amount of water in quality of the color.

The reason that leaves are plant preserve water when the ground available. Stored water is The loss of leaves and consequently plant's ethylene gas and Ethylene causes aging in stimulate growth. Their

The colors are due to chemicals chemicals that give rise to

have different colors. They all of the time. We see chlorophyll production in it is due to the cooling, freezing temperatures, it It would be a good contribute to the changes. the plant contributes to the

shed in the fall is to help the is frozen and water is not readily primarily used in the winter months. the leave's color change is due to auxin balance changes. plants and auxin levels levels apparently

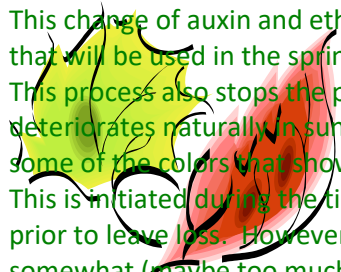
This varies widely between species. Consequently, with most deciduous leaves, when auxin levels decrease and ethylene increases, enzymes begin to digest the cellulose of the abscission layer (the point the leave stem separates from the plant.) This change of balance is related to reduced sunlight periods (photo periods), but apparently, other facts such as moisture available to the roots and amount of tree water storage, drying winds, and yes, cold

stress can be a factor, among other factors as well. (font: Courier New)



This change of auxin and ethylene balance apparent triggers the absorption of nutrients from the leaf that will be used in the spring to grow new leaves.

This process also stops the production of the dark green chlorophyll to replace the chlorophyll that deteriorates naturally in sunlight. Many people do not know that the many plants actually produce some of the colors that show after the green chlorophyll deteriorates at the end of the growing season. This is initiated during the time of the change of balance between auxins and ethylene just prior to leave loss. However, many of the colors were there all along. I have simplified the explanation somewhat (maybe too much), and not all of this is completely understood at this time. (font: Gill Sans)



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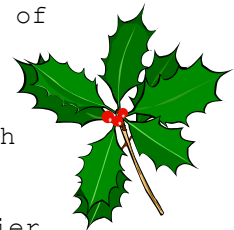
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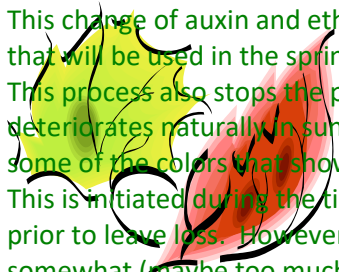
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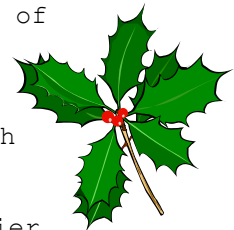
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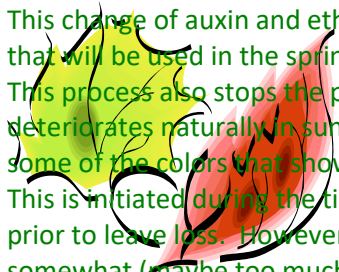
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