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PROPAGATING HOUSEPLANTS

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The best time to propagate houseplants is while the plant is actively growing. The most common methods are stem cuttings, leaf cuttings, division, layering and airlayering.

STEM CUTTINGS: These work effectively on soft-stemmed plants such as Coleus, Syngonium, Hoya, Dieffenbachia and Philodendron. Use a clean, sharp knife or snip. Cut a 3- to 4-inch piece of stem from the tip of the parent plant. Make the cut below any node on the stem.

Take a clean container and add a good potting media up to about an inch below the top of the container. Take off the lower leaves and leave at least two nodes bare for insertion into the planting media. Dip the stem into a rooting powder and plant directly into the media. Water thoroughly after planting. To increase the chance of success, enclose the pot in a clear plastic bag, making a miniature greenhouse for the cutting which increases the humidity. Place the plant in a warm, shady area. The cutting will signal root development by showing signs of growth. Then remove the plastic bag and continue to keep the soil moist to encourage a good root system. Gradually bring it into more light. The variety of the plant will determine how much light it needs.

Rooting in water: Not all plants root in water. Some that do root well in water are Creeping Charlie, Pothos and some Philodendrons. Within ten days the root will begin to appear. Plant the cuttings in small pots when a good-sized root system develops in a good potting media. Cuttings may suffer or go into shock when moved from the water into the soil. Keep water clean and fresh, changing every few days or add horticultural charcoal.

LEAF CUTTINGS: The leaf cutting method of propagation works well with African violets and some succulents. Using a sharp knife or scissors, cut an entire leaf with stem from the parent plant. Cut the stem to about 1-½ inches in length, making a diagonal cut. Allow the cut to callus for an hour. Insert the leaf in water after adding a little horticultural charcoal. You can also place the cutting directly into the potted media after dipping the stem end into rooting powder before planting.

Cover the container with aluminum foil or waxed paper to make the leaf stand up with the stem dangling in water. Secure it with a rubber band. Make a small hole in the top and lower the leaf through the hole. This will allow the stem to dangle freely in the water without wetting the leaf.

After roots appear and are about ½ inch long, you are ready to pot the rooted leaf. Use a small (2 inch) container to pot the newly rooted leaf. Repot into a larger container after the plant has several leaves. In potting media such as peat and perlite or vermiculite, use a ½ inch peat and ½ inch perlite or vermiculite. If placed in this material, insert the leaf at a slight angle and lightly place the mixture around the leaf. Succulents will readily root when placed in part soil, part sand, part perlite or vermiculite mixture.

DIVISION: This method works with plants that have multiple crowns on those growing from more than one main stem. This includes the Aspidistra or Cast Iron Plant, Spider Plant or Spathiphyllum. Carefully remove the plant from the pot and gently pull the clump into desired sections. Use a sharp knife to cut through the root ball for plants with particularly thick and tough roots. Try not to damage the root system. It is best to pull the plant apart as much as possible before using a knife to cut the roots. Pot the new sections after you have divided the plants.

LAYERING: Vining plants can be propagated by winding the stem around so that it makes contact with the soil. Hold the vine to the soil with a hairpin or a paper clip cut in half or a small rock. New roots will form at the nodes. Cut the stem off after the roots have formed. Remove the new plants and pot separately.

AIRLAYERING: For Dracaena, Ficus and other nonvining plants airlayering is accomplished by removing one inch of the bark around the stem, dusting with rooting powder. Then cover above and below the cut area with moist sphagnum moss and wrap with foil or plastic. Depending on the plant and time of year, it will take a few weeks to several months for roots to form. Make sure the sphagnum does not dry out. Once roots form, cut the rooted section off and pot.

HOUSE PLANT NAME	METHODS	COMMENTS
African Violet	Leaf cuttings or division	Easy.* Propagate in water or soil,
Saintpaulia ionantha		using a rooting hormone powder.
Aloe	Stem cuttings and offsets	Easy.*
Aloe spp.	g	
Aluminum Plant	Leaf cuttings or division	Needs good drainage.
Pilea cadierei		The same group are meaninger
Amaryllis	Bulbs, force indoors in fall, plant	Easy.*
Hippeastrum x hybridum	outdoors in spring	·
Arrowhead Vine	Stem cuttings	Very Easy.*
Syngonium podophyllum		
Asparagus Fern	Seeds, division	Divisions are easy.*
Asparagus sprengeri		·
Begonia Wax	Leaf cuttings or division	Use plastic pots. Pinch back straggly
Begonia semperflorens cultorum		growth.
Bird's Nest Fern	Spores	Most ferns are difficult. Best to buy
Asplenium nidus		small plants. Avoid strong sunlight.
Bromeliad	Offshoots, divide clumps, or seeds	Easy* with offshoots that develop at
Bromeliaceae	1	base of plant.
Cactus Cereus types	Seeds, cuttings, and offsets	Seeds take longer. Dry off or callus end
Cereus spp.	, 6,	of stem cutting before planting.
Cast Iron Plant	Division	Easy.*
Aspidistra elatior		•
China Doll	Seeds (cuttings or air layering)	Difficult to propagate.
Radermachera sinica		1 1 8
Chinese Evergreen	Stem cuttings, offsets, layering, and	Cuttings are easier than layering or
Aglaonema modestum	seeds	seeds.
Christmas Cactus	Leaf petiole, cuttings	Easy.*
Schlumbergera X Zygocactus		
Coleus	Tip cuttings, seeds	Easy.* Cuttings root best with rooting
Coleus blumei		powder.
Creeping Charlie	Cuttings	Easy.*
Plectranthus purpuratus		
Croton	Tip cuttings from side shoots, seeds,	Avoid water stress. Use rooting
Codiaeum variegatum	or air layering	powder or root in water. Change water
		once a week or more often.
Crown of Thorns	Stem cuttings	Easy.* Do not overwater to prevent
Euphorbia splendens		stem rot.
Cyclamen	Seeds under glass or bulbs	Difficult to propagate.
Cyclamen persicum		
Dieffenbachia (Dumb Cane)	Stem cuttings, air layering	Easy.* Wash hands after making
Dieffenbachia picta		cuttings. Do not touch eyes and mouth
		before washing hands. Wear gloves.
Dracaena	Air layering	Easy.*
Dracaena deremensis	Tips and stems cuttings	
Dracaena fragrans		
massangeana		
Dracaena marginata		
Echeveria	Root young plants	Easy.*
Echeveria spp.		

HOUSE PLANT NAME	METHODS	COMMENTS
English Ivy	Stem cuttings	Easy.* Use a rooting powder.
Hedera helix		
False Aralia	Seeds, stem cuttings or air layering	Many plants can be rooted in one pot.
Dizygotheca elegantissima		
Fiddleleaf Fig	Air layering and stem cuttings	Air layering is best.
Ficus lyrata		
Geranium	Stem cuttings	Easy.*
Pelargonium spp.		
Gloxinia	Tubers	Easy.*
Sinningia speciosa		
Gold Dust Plant	Stem cuttings, layering	Grows best in partial shade.
Aucuba japonica		
Grape Ivy	Stem cuttings	Allow media to dry between waterings.
Cissus rhombifolia		
Hoya or Wax Plant	Stem cuttings	Difficult, but possible.
Hoya carnosa		
Jade Plant	Stem cuttings and leaf petiole	Sandy soil or light well-drained media.
Crassula argentea		
Kalanchoe	Seeds, stem cuttings, leaf blade	Leaf blade easiest.
Kalanchoe blossfeldiana		
Moses in the Cradle	Tip cuttings	Careless overwatering or
Rhoeo spathacea	Root offsets	underwatering results in dead leaf tips.
Nerve Plant-Fittonias	Root tip cuttings	Avoid poorly drained media.
Fittonia spp.		
Norfolk Island Pine	Seeds, stem cuttings, air layering	Not easy to propagate. Seeds hard to
Araucaria heterophylla		find. Buy small plants.
Palm, Areca	Root divisions or small plants	Leaf tips die back if you let the media
Chrysalidocarpus lutescens		dry out too much between waterings.
Palm, Kentia	Seeds (hard to find) or small plants	Easiest of all palm varieties to grow.
Howeia fosteriana		Use only fresh seeds.
Palm, Parlour Palm or	Seeds or small plants	Suffers in drafts.
Neantha Bella		
Chamaedorea elegans Peperomia	Stem cuttings or division	Easy.*
	Stem cuttings or division	Lasy."
Peperomia spp. Persian Violet	Cuttings from old plant	Keep in cool location.
Exacum affine	Cattings irom our plant	ixcep in coor iocation.
Philodendron	Air layering	Easy.*
Philodendron cordatum		
Philodendron, Heart Leaf	Tip cuttings	Easy.*
Philodendron scandens	1 5	'
oxycardium		
Peperomia	Stem cuttings or division	Easy.*
Peperomia spp.		
Persian Violet	Cuttings from old plant	Keep in cool location.
Exacum affine		
Philodendron	Air layering	Easy.*
Philodendron cordatum		
Philodendron, Heart Leaf	Tip cuttings	Easy.*
Philodendron scandens		
oxycardium		T
Philodendron, Split Leaf	Air layering	Easy.*
Monstera deliciosa		

HOUSE PLANT NAME	METHODS	COMMENTS
Poinsettia	Stem cuttings	Easy.* Avoid getting milky sap on
Euphorbia pulcherrima		skin.
Pothos-Devil's Ivy	Cuttings	Very easy* in water or media.
Scindapsus aureus		
Prayer Plant	Stem cuttings or division	Leaves fold upward at night.
Maranta leuconeura		
Rubber Plant	Air layering or stem cuttings	Easy* either way.
Ficus elastica		
Schefflera, Umbrella tree	Seeds, stem cuttings, air layering	Air layering works best if plant is tall.
Brassaia actinophylla		
Schefflera arboricola		
Snake Plant	Leaf blade or division	Easy.*
Sansevieria trifasciata		
Spatheflower-Peace Lily	Division or seed	Roots are tender and can be burned by
Spathiphyllum spp.		fertilizer.
Spider Plant, Varigated	Divisions, runners, or plantlets	Runners or plantlets are easy to grow.
Chlorophytum spp.		
Succulents	Seeds, stem cuttings, leaf blade	Leaf blade easiest.
Crassula spp.		
(Various varieties)		
Thanksgiving Cactus	Cuttings	Easy.*
Zygocactus X Schlumbegera		
Ti Plant or Cordyline	Stem cuttings and air layering	Air layering is the best method if plants
Cordyline teminalis		are leggy.
Purple Velvet Plant	Cuttings	Yellow flowers have an unpleasant
Gynura aurantiaca		smell.
Wandering Jew	Stem cuttings	Easy.* Root in water or use rooting
Tradescantia spp.		powder for soil methods.
Weeping Fig	Stem cuttings and air layering	Sensitive to changes.
Ficus benjamina		
Yucca	Cane cutting or by removing	Easy.*
Yucca spp.	plantlets as they form	

^{*} Easy means that by following the methods and care, they are not difficult to grow.

Botanical name listed under common name.

For More Information: Master Gardener Help Line 702-257-5555 or 702-222-3130

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