or, if the plant is potted with its full com plement of leaves into a larger pot, the leaves will, in like manner, restore the dam age done to the tender and delicate roots by the operation of shifting into a fresh put and soil. After a healthy root action takes place. forth of the lateral growth.

ripened, has been out down to lay the foan order to its healthy growth it is necessary suffer from injudicious watering. that the whole of the old and exhausted soil tritive soil be substituted. Now, this shak ing out operation is frequently performed im mediately the plant is pruned back and de nuded of every leaf, and, as a consequence, delicate plants die outright. The plant should be allowed to heal its wounds and bud out into leaf before it has its roots en tirely disentangled from the effete soil. The young crop of leaves will keep up their action on the roots and hast in the formation of young and greedy feeders, the shock will soon be recovered, and the whole system brought into full and healthy play. Every active root et or spongiole dies immediately the plant is cut down and denuded of its foliage, and it is not till young shoots and leaves are again formed that they come into activity again.

From the foregoing the inexperienced can scarcely fail to infer that, in potting plants that require any cutting or pruning to keep them shapely or within convenient limits, the two operations should not be performed simultaneously. Generally it is best to prane first, and allow the plant to make fresh growth before potting is performed. Deciduous plants should not be reported fill they burst into leaf. Fuchsias, for instance, which can be so conveniently dried off in winter, should not be shaken out and repotted till they have expanded a few leaves, and all pruning required in their case should be performed before the roots are disturbed. Evergreen plants, such as camellias, oranges. azaleas and myrtles, have a particular season at which their roots clongate or increase with more rapidity than is usual at other stages of their growth, and under ordinary circumstances that period is immediately they have pushed out their season's growth, and is the best time.

But to throw the consideration of topping and pruning aside, it often occurs that shifting a plant into a larger pot becomes neces sary when pruning is not called for. In potting should be attended to as soon as the roots have coiled themselves among and around the soil sufficiently to perform the potting with a whole ball, but the soil should

vigorous, to a state of inaction and prema- and ill-conditioned. ture decline. Such soil is destitute to a they are most difficult to be kept alive, if escape with freedom. that be at all possible under such circumand no tender plant can thrive in it.

quires more pot-room and nourishment is should be chopped up or teased with the when the roots announce themselves at the hand without removing the fibre. Sifting opening at the bottom of the pot. It is, howeshold never be had recourse to, except ever, much preferable at the near approach when it is to be used for potting young things of winter to have plants a little cramped at into very small pots; and even then, instead the roots, than to shift at the beginning of a of separating the fibre from the finer soil, it and the system of the young plant is in full comparatively dormant season. Under such should be all passed through the sieve. and vigorous play, the removal of the top, c remustances it is much better to defer re- samply for the purpose of breaking it up will soon be compensated by the bursting potting until early spring. All plants, such and making it fit for going into small nots is azaleas and New Holland plants gene- without taking the fibre out of it Soil of Take, on the other hand, a geranium that rally, that are dependent on a well ripened this fibry description-fresh and openhas done blooming, and that, after being well growth for their crop of bloom the following should form the chief of mixtures for potting season, are much better under than over- with, and is in itself very nutritious. Manudation for another season's dowering. In potted, and are likewise much less likely to rial substances, such as leaf mould and · rotten dung, can be added to such a staple In continuing our remarks on potting with safety in the case of grosser-feeding be shaken from its roots, and that fresh nu | plants, we have to observe that the next im. plants. The amount of sand added to it portant consideration is the character of the must be decided by the character of the soil most suitable for plants under circum- roots which various plants make. Heaths. stances so artificial. One of the most com- azaleas, and the generality of New Holland mon and fatal errors into which the inex-, plants, which make fine hair-like roots, reperienced fall is that of making choice of quire a more sandy soil than others; while inert and finely pulverized soil for potting such as oranges and camellias, which make with. This and insufficient drainage are strong crowquill-like roots, demand a very more disastrous to pot plants than any other moderate admixture of sand. The former two points of culture that can be named. plants, too, require more of a peaty than a l'o pot plants into common garden soil, which | loamy or calcareous soil ; but in all cases is generally destitute of fibry and organic there should be a large amount of fibrous matter, and at the same time to neglect material. In using such soil, it should thorough drainage, is the shortest and surest, always be inclined to the dry side, as, when way of reducing a plant, however hardy and used wet, it is apt to become compressed

> Drainage is another point of great imporgreat extent of what forms the food of plants. So im-Were this its only fault, it might be remedied by the application of stimulants in a may be, if the pot is not well drained it is liquid form; but the principal want or error impossible for plants to thrive. Broken pots lies in its mechanical condition being at va- or tiles form the very best material for drainriance with the requirements of a healthy ing pots with, inasmuch as such material is pot plant. What is required is organic or light and porous. A six-inch pot should turfy matter, which in its gradual decomposition affords food to the plant, and at the same time forms a root medium, which freely over the crock which covers the hole in the admits the wholesome influence of the at- bottom of the pot. And tender rooting mosphere, and has the power of absorbing plants, particularly those that are intended therefrom the essential gases so necessary to to remain several years it may be in the same the well-being of plant life. A plant potted i pot, should have extra care bestowed on the in finely pulverized soil, or rather dust, en- drainage, which should in itself be ample, tirely destitute of fibre particles, forms, and have a layer of sphagnum moss or other especially after frequent waterings, a close fibry substance placed over the crocks. hardened medium, impervious to the chemi to keep the finer particles of the soil from cal action of the air; and if young roots are mixing with the crocks and choking up the ever formed in a healthy condition at all, cavities, through which the water should

As soon as a plant becomes, in gardening stances. Such a body of soil, especially if phrase, waterlogged at the root, it is most watered with water in which there is a sedi-ment com becomes as solid as a millstone, death, unless immediate remedial action is resorted to. How often does it occur that a The soil most suitable for the growth of tiny worm finds its way into the pot, and plants in pots should contain a large pro. works the most disastrous results by wrigsuch cases, when it becomes desirable to portion of decomposing fibry matter, such as gling the finer particles of the soil down merely increase the size of a plant, the re- the roots and herbage which are common to among the drainage, choking it up and pregling the finer particles of the soil down the surface of old pasture. The fibry matter | venting the escape of water. Under such which such soil contains not only presents in circumstances the depredator must be desits gradual decomposition the constituent ele- troyed, and the drainage renewed as soon as ments which form the chief food of plants, the mischief is discovered, or a sickly plant never be over "me ted" with roots. Gene- but prevents at the same time the soil from will be the immediate consequence. The rally a sure criterion as to when a plant re- | becoming compressed and soured. Such soil | effect of stagnant moisture about the roots of