The root

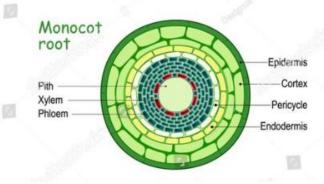
Function: The root system anchors the plant in the soil , absorbs water and minerals from the soil , and stores the products of photosynthesis received from the leaves .

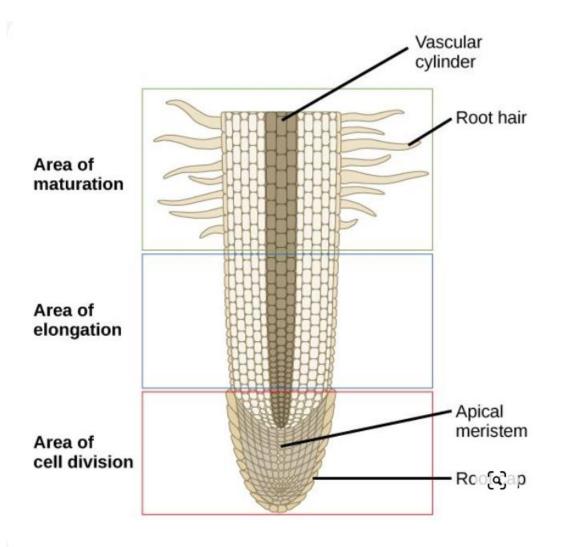
Difference between monocot and dicot root

| Monocot root | Dicot root |
|---------------------|-------------------|
| -Xylem is polyarchy | -Xylem is usually |
| | tetrarch |
| -Pith is usually at | -Pith is usually |
| the center | absent |
| -Found casparian | -Non |
| strip | |
| -Fibrous roots | -Tap roots |

Root structure







Types of roots

There are essentially two types of roots:.

(tap root and fibrous root)

1- Tap root system :. (carrot root)

Consisting of a simple long conical root with side branches often develop from the main root (most dicots have a tap root system).

2- Fibrous root system :. (grasses plants)

Consisting of a mass of similarly sized roots and complex form network . (most monocots have a fibrous root system).

- -In addition to their primary root system, many plant have (adventitious) root which (root that development from any parts except the root).
- -Food storage root :. Roots are often sites of storge (carrot root).