

### INTRODUCTION TO PLANT DEVELOPMENT

#### Development

- is the progression from earlier to later stages in maturation. It is the process whereby tissues, organs, and whole plants are produced.

-It involves: growth, morphogenesis (the acquisition of form and structure), and differentiation.

#### Growth

-Growth refers to an irreversible increase in mass.

#### Differentiation

-The process in which the cells of the apical meristems mature to perform specific functions.

#### Morphogenesis

-Morphogenesis is the acquisition of form, how a plant or organ acquires its distinctive shape or form.

### Plant development is highly plastic

#### Plasticity

- is the ability to change form or shape in response to a change in environment; no genetic change is involved.

#### Heterophylly

-the phenomenon where a plant species produces leaves of different shapes or forms on the same plant, depending on the environmental conditions.

- is thought to be an adaptation that allows plants to optimize their photosynthesis and water-use efficiency in different environmental conditions, thus increasing their fitness and survival.



By [nadjjj\\_06](#)

[cheatography.com/nadjjj-06/](https://cheatography.com/nadjjj-06/)

Not published yet.

Last updated 25th March, 2023.

Page 1 of 1.

Sponsored by [CrosswordCheats.com](https://CrosswordCheats.com)

Learn to solve cryptic crosswords!

<http://crosswordcheats.com>