



SNS COLLEGE OF TECHNOLOGY

**An Autonomous Institution
Coimbatore - 35**

Accredited by NBA – AICTE and Accredited by NACC – UGC with 'A+ Grade
Approved by AICTE , New Delhi and Affiliated to Anna University , Chennai.

DEPARTMENT OF AGRICULTURE ENGINEERING

19AGT201 – SURVEYING AND LEVELING

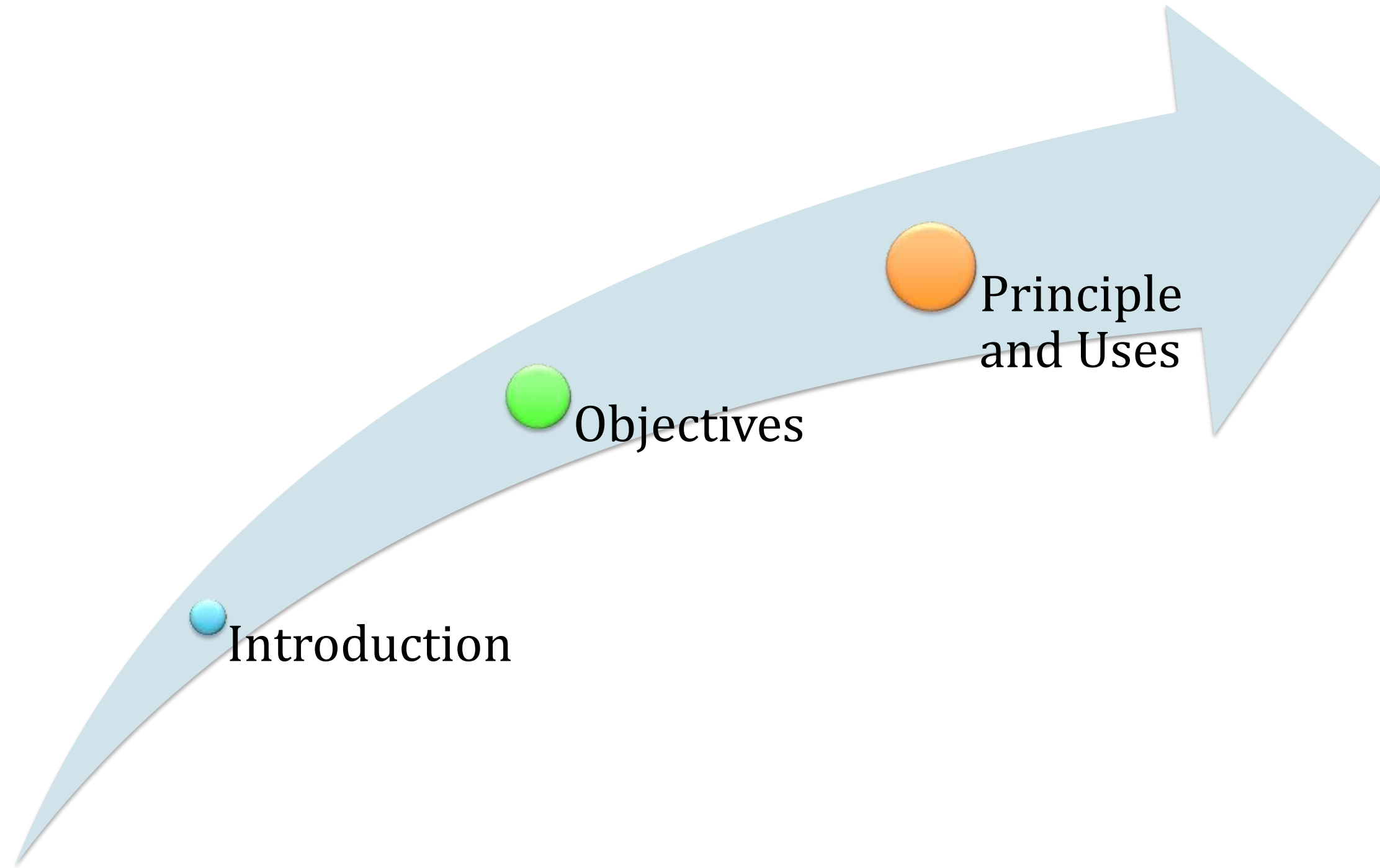
II – YEAR III SEMESTER

UNIT 1 – PRINCIPLES OF SURVEYING

TOPIC 3 – CLASSIFICATION AND BASIC METHODS OF SURVEYING



Last Class Review



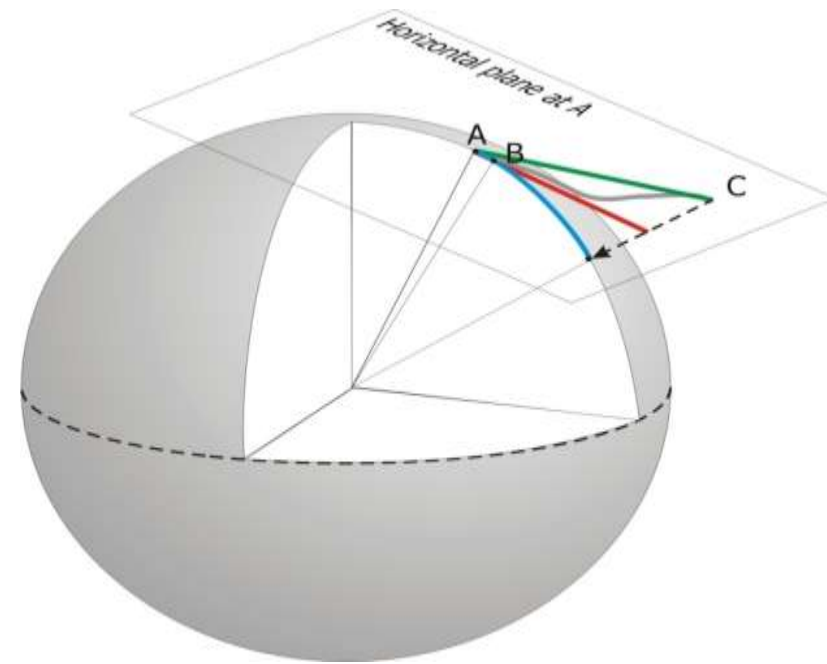


Types of Surveying

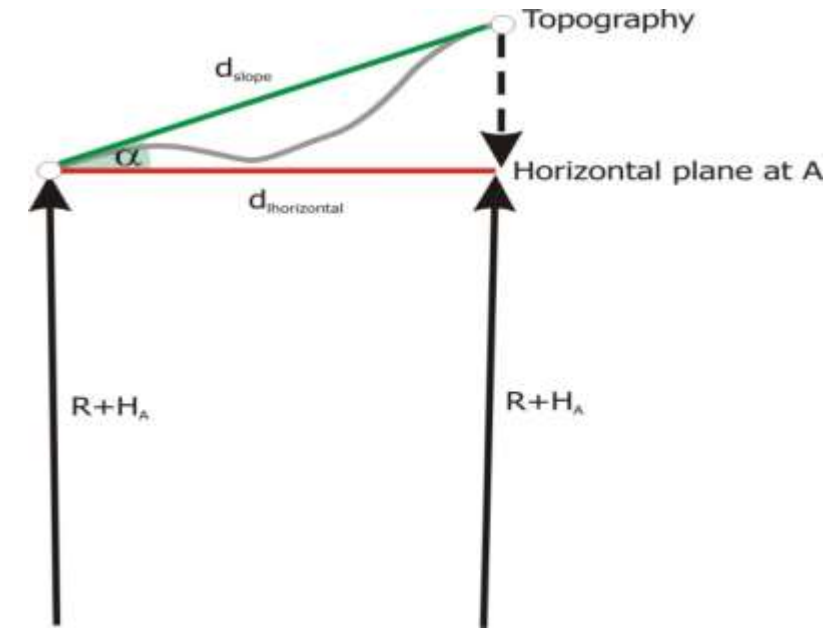


According to the space involved:

Plane Surveying



- relatively small areas
- surface of earth can supposed to be flat
- measurements plotted represent a horizontal projection of the actual field measurements

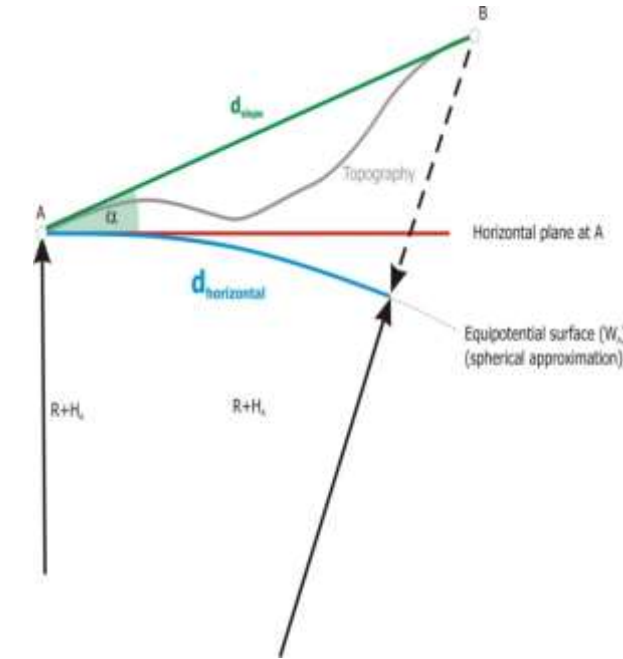
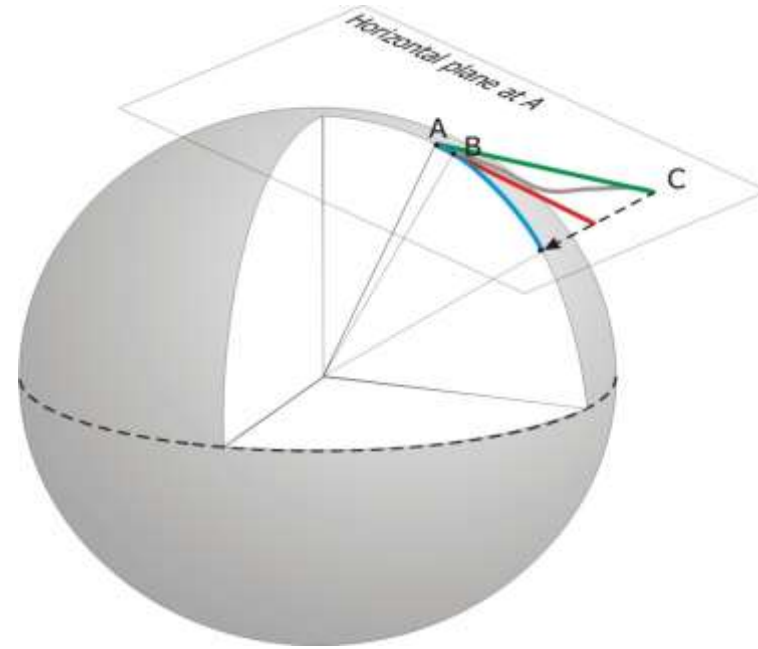


Note: The two radii can supposed to be parallel, when the $l(A,B)$ is small.



Working from whole to part

Geodetic Surveying



- large areas
- surface of the Earth can not supposed to be flat
- the curvature of the Earth is taken into account

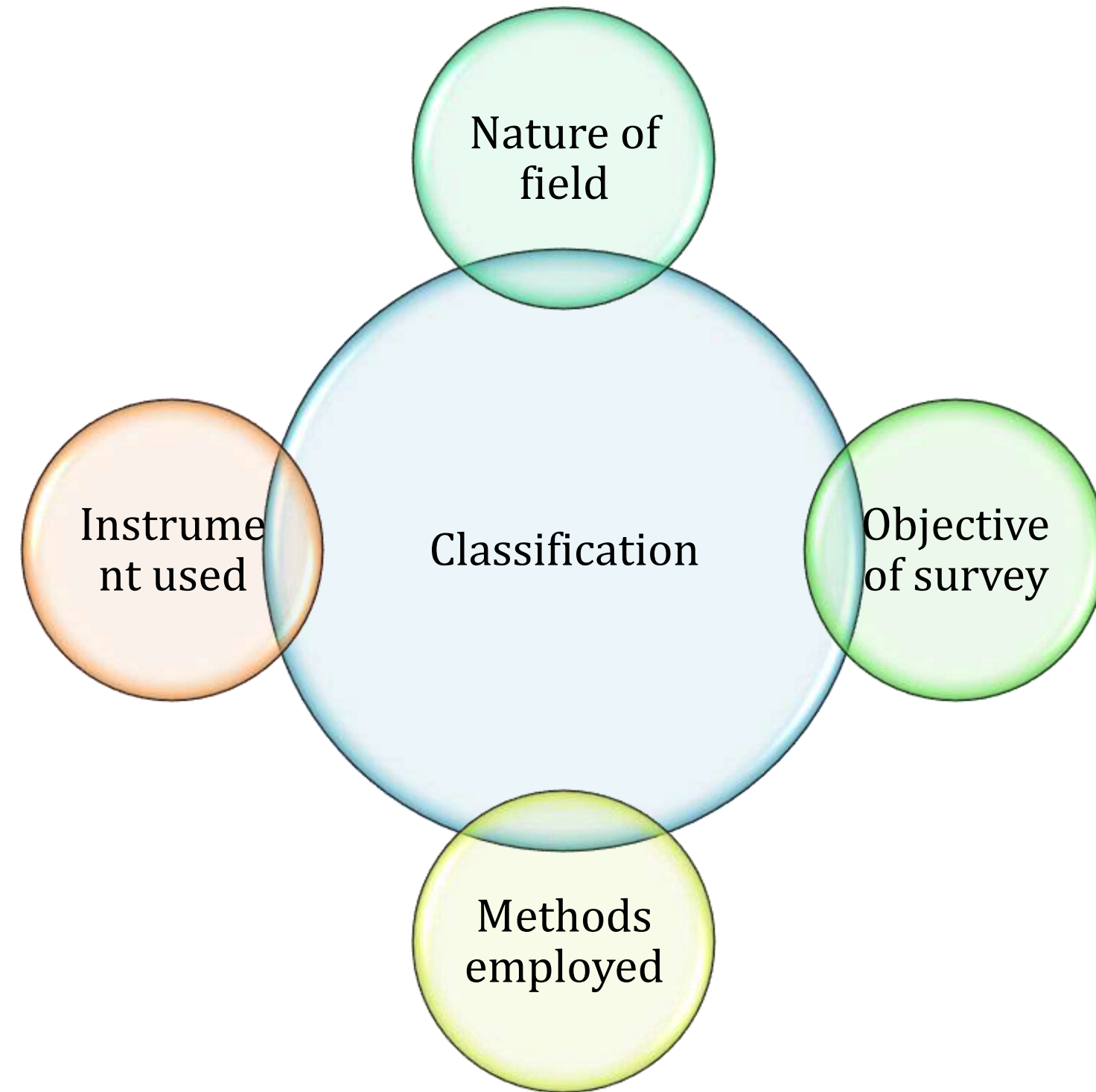
Mostly used for establishing control networks, determining the size and shape of the Earth and determining the gravity field of the Earth.



Don't forget! Size does matter

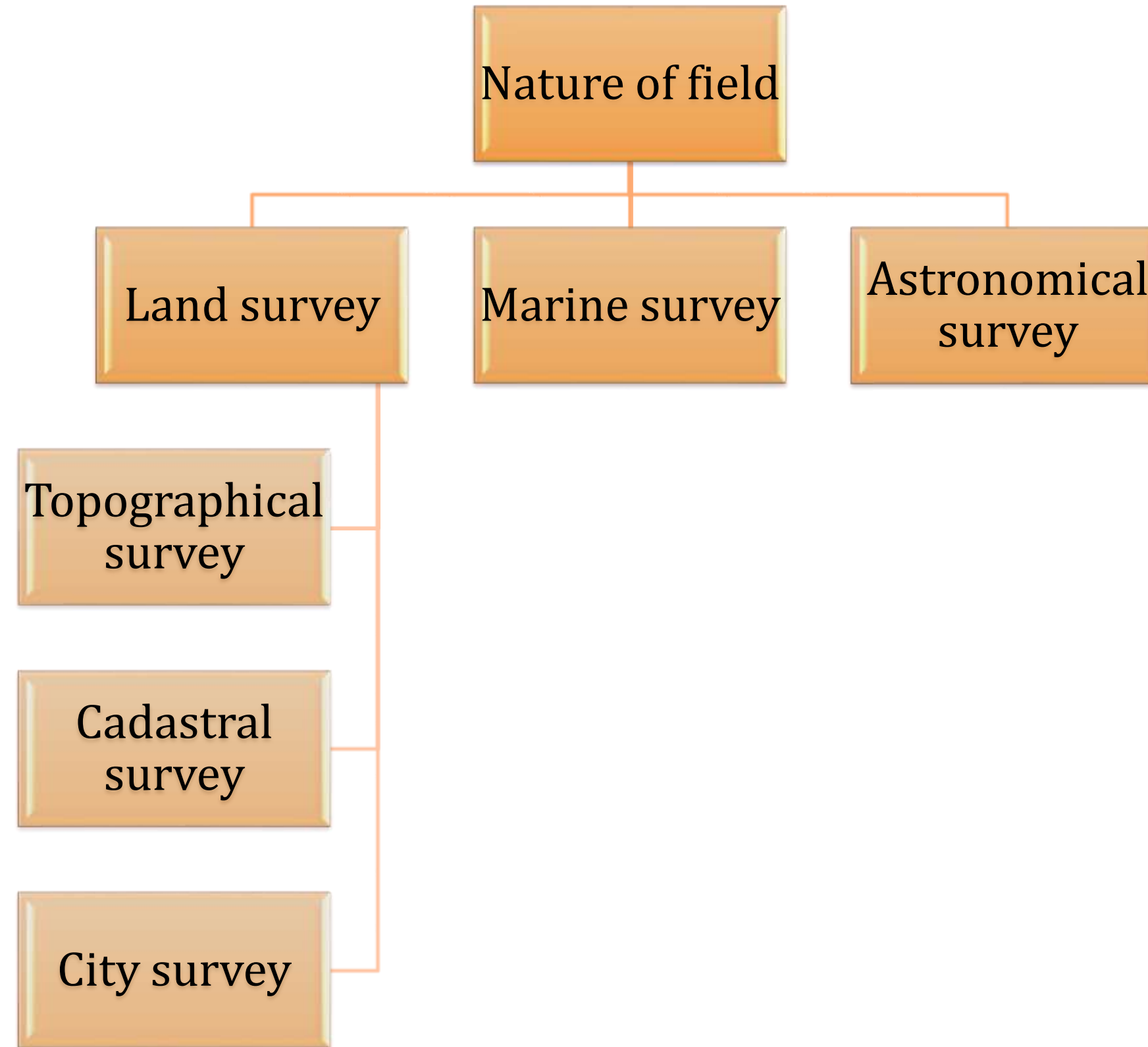


Classification of surveying





Based upon nature of field





Assessment

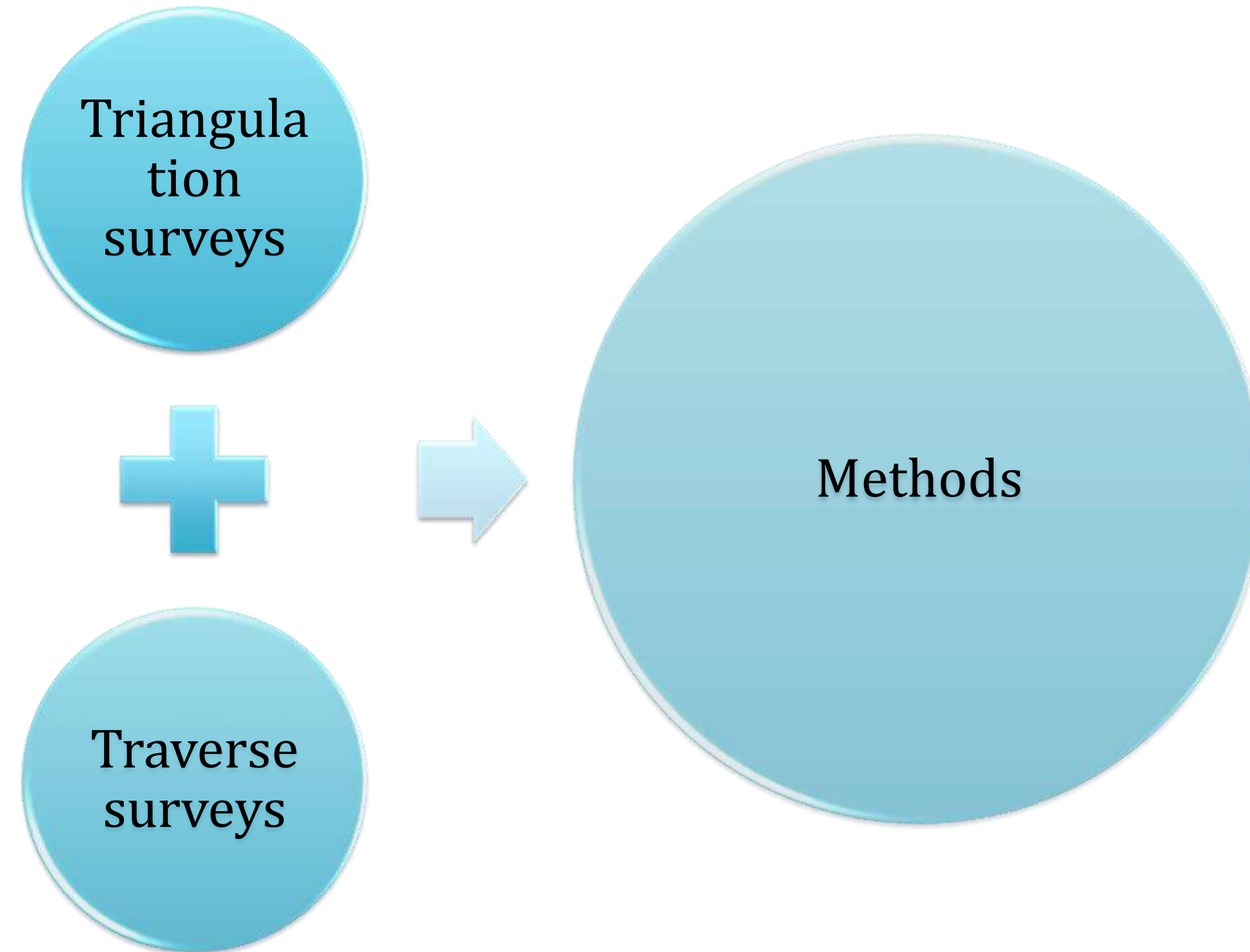


- **Which type of surveying is used now**
- **Define surveying**





Based upon methods employed





Based upon instruments used!!!

Chain surveying

Compass surveying

Plane table surveying

Theodolite Surveying

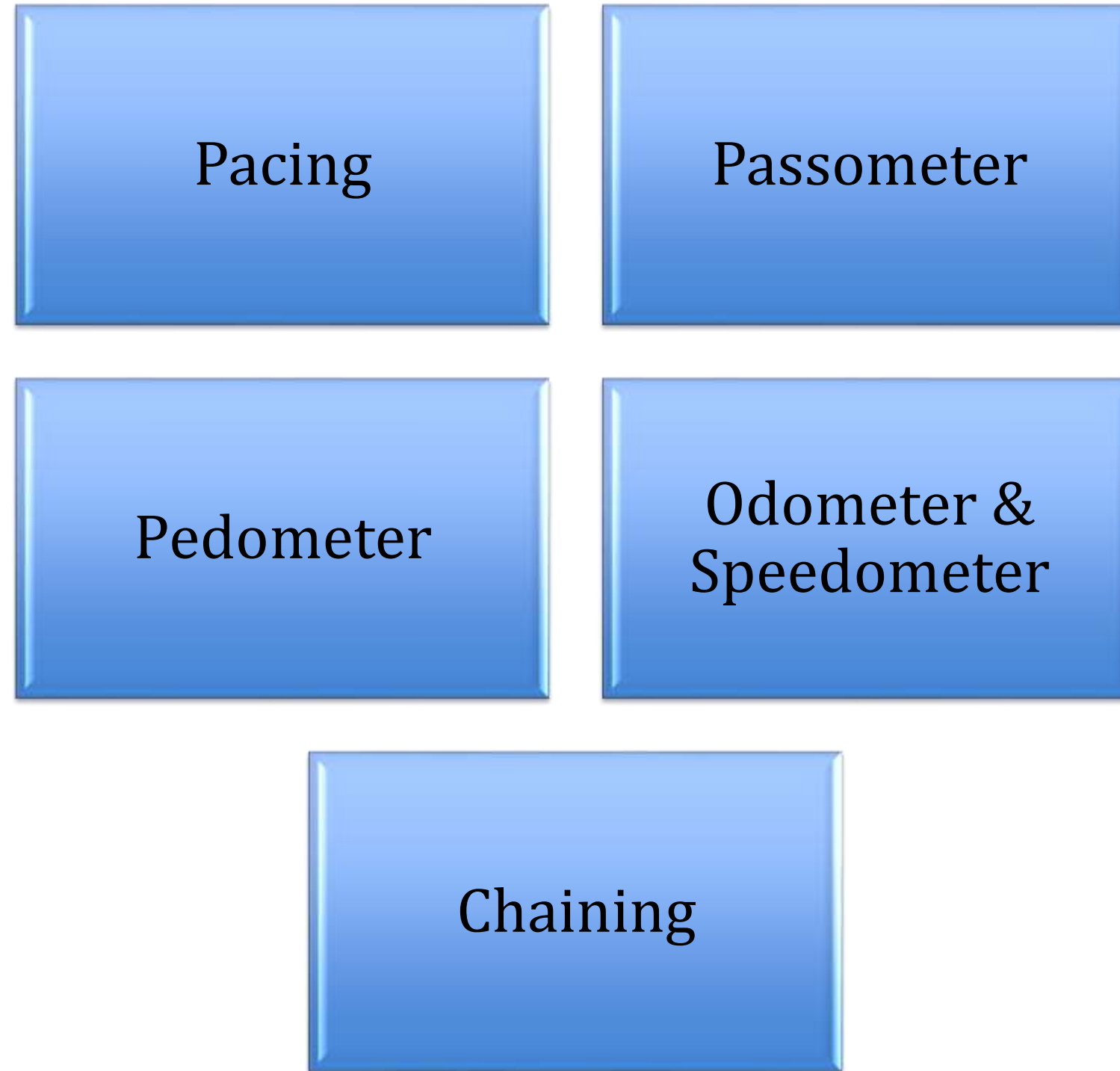
Tacheometric surveying

Aerial surveying

Photographic surveying

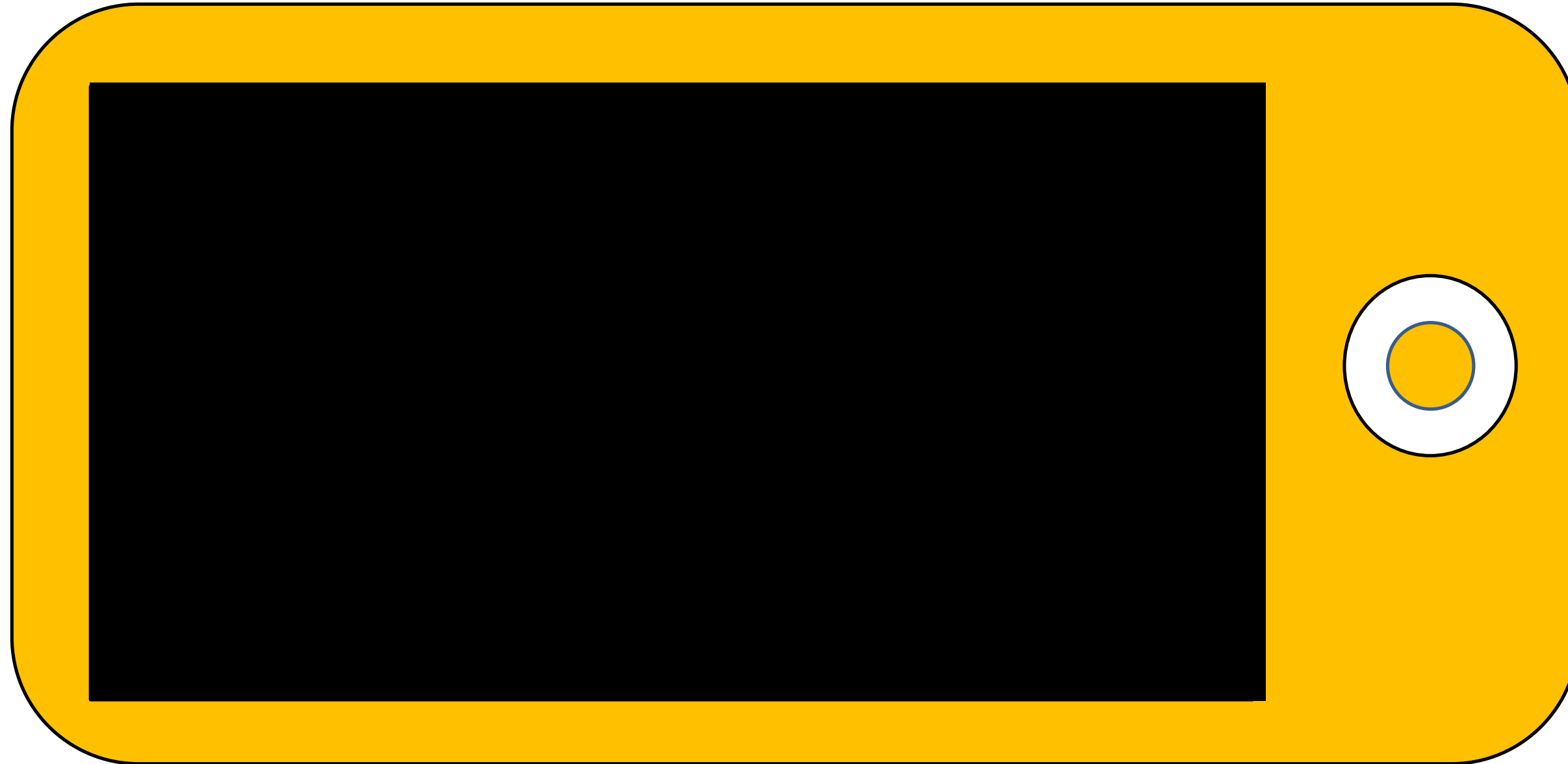


Direct Methods





Reference Videos





See You at Next Class!!!!