

# Joints

according of the type in space between the bones

Fibrous

synovial

Cartilaginous

no movement



sutures Gomphosis syndesmosis

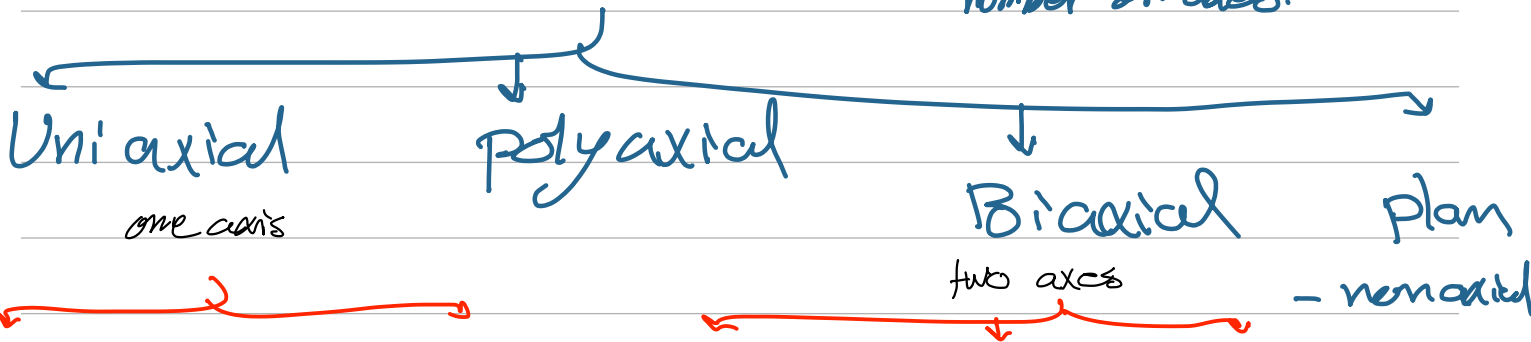
primary

secondary

- skull
- old age
- sutural ligament
- minimal amount of fibrous
- periodontal ligament
- root of teeth
- alveolar margin of maxilla
- "peg and socket"
- moderate amount
- inferior tibio-fibular joint
- bones; rough
- interosseous ligament
- big amount
- inferior tibio-fibular joint
- Temporary joint, disappears
- epiphyseal cartilage
- ends of long bone
- hyaline cartilage
- "Synchondroses" cartilage, separated by white fibrocartilaginous disc.
- "Symphyses"
- premanent
- midline: intervertebral discs + symphysis pubis.
- and fixed joint.
- limited movement
- thin layer of hyaline

# joints

according to the movement/action and number of axes.



- hinge joint
- pivot joint
- Ellipsoid joint
- saddle joint
- condyloid joint

- horizontal axis.
- rod and ring.
- oval convex
- Concave-convex
- convex surface with
- 2 movements
- along the bone elliptical concavity
- wide range of concave surface.

- Elbow joint. "longitudinal" - Wrist joint movement.
- ① metacarpophalangeal joints - knuckle joint
- Flexion
- extension
- Superior radio-ulnar joint
- Flexion extension
- abduction adduction
- ① trapezium
- ② metacarpal bones in thumb.
- ③ sternoclavicular joint
- Flexion
- extension
- abduction
- adduction
- Circumduction
- more restricted, but possible

- polyaxial

- plan

- the most freely mobile joint.

- flat, gliding without any axis art movement.

- hip
- shoulder joints

- Intercarpal
- Intertarsal joints

- movement in sagittal plane greater than in the other one.

\* all of the joints are not ossified except

✓ sutures ✓ syndesmosis ✓ Gomphosis  
secondary cartilages ✓

\* bone is involved in wrist → Radius ✓  
↳ Ulna ✓

\* Extension ✓ Flexion ✓  
↘ ↗  
↘ ↗

\* the thumb moved adduction toward the = Axial

\* Complex joint = knee.

- Raghad Mohammad