• **Pulmonary circulation**: short loop that runs from heart to lungs and back to heart

• **Systemic circulation**: long loop to all parts of body and back to heart

  o L ventricle ➔
    - Ascending aorta
      - L&R coronary arteries

  o Ascending aorta ➔
    - Brachiocephalic (R)
    - L common carotid (L)
    - L subclavian (L)

  o Brachiocephalic becomes ➔
    - R subclavian, becomes ➔
      - R axillary ➔ arteries of R upper limb
      - R vertebral (branch off R subclavian)
    - R common carotid (branch off brachiocephalic) ➔
      - R external carotid
      - R internal carotid

  o L common carotid ➔
    - L external carotid
    - L internal carotid

  o L subclavian becomes ➔
    - L axillary ➔ arteries of L upper limb
    - L vertebral (branch off L subclavian)

  o External carotid arteries branch (inferior to superior) ➔