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Microscopy

- Light microscopes (living specimens)
  - Brightfield
    - background bright
    - poor contrast
    - staining
      - ↑ contrast
      - killing them dead
  - darkfield
    - background dark
    - ↑ contrast w/o stains
    - living cells
    - small + colorless causitive syphilis
  - phase contrast
    - background grey
    - ↑ contrast w/o stain
    - living cells
    - internal/external structure cilia, flagella nucleus

2000 X magnification

- electron microscopes
  - IEM
    - internal structure
    - NO 3D
  - SEM
    - external structure
    - 3D

dead organisms

organelles - ribosome
viruses, atoms

10,000 X - 100,000 X
dead specimens ↑ resolution