

Silt



Clay



Soil particle Mineral, negative charge Decrease in grain size and pore size

Larger air spaces; but less total pore volume



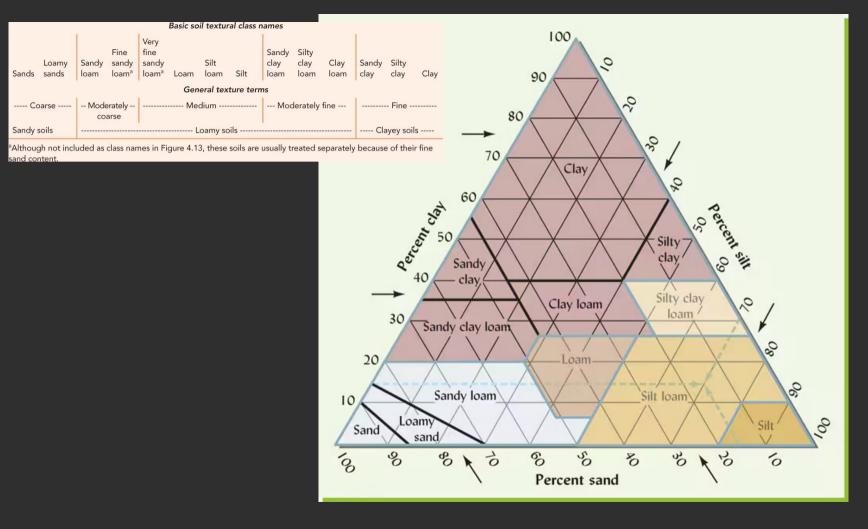
Film of water bonded to particle

Weathering is on going!

Micro-orgnaisms can grow on particle surfaces!

All particles sizes can exist in a mixture in soils simultanesouly

Loam = A mixture of about equal proportions of each particle size

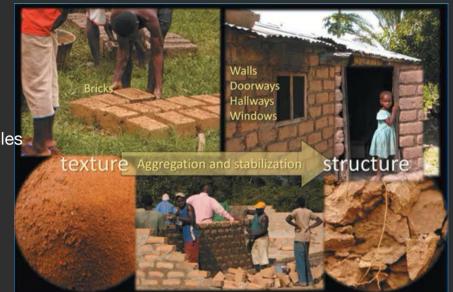


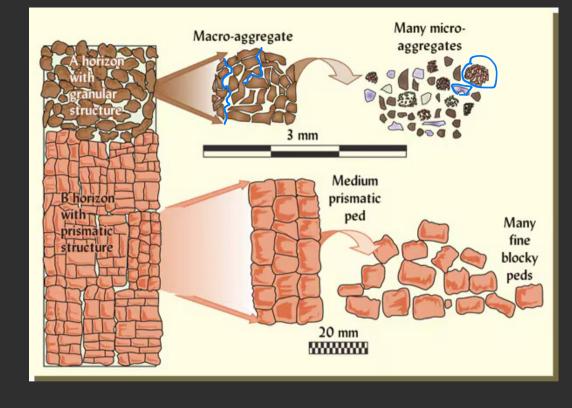
Soil structure The spatial arrangement of particles to form complex aggregates, pore, and channels

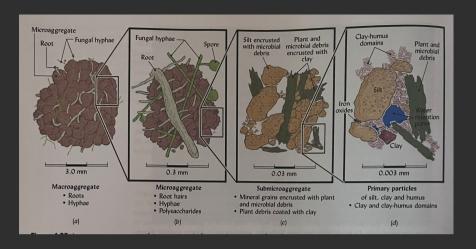
Peds or aggreagates = a mixture of multiple particles

-- THESE ARE NOT CLODS (wet mud)

Single-grained to massive (many many grained)







Spheroidal

Characteristic of surface (A) horizons. Subject to wide and rapid changes.





Crumb (very porous)

(very por

Plate-like

Common in E horizons, may occur in any part of the profile. Often inherited from parent material of soil, or caused by compaction.







Block-like

Common in B horizons, particularly in humid regions. May occur in A horizons.







Subangular blocky





Prism-like

Usually found in B horizons. Most common in soils of arid and semi-arid regions.

Columnar (rounded tops)





Prismatic (flat, angular tops)



