Sedimentary Rocks

Sedimentary Rock Types

<u>Clastic</u>

- Breccia and Conglomerates
- Sandstone
- Shale

Chemical

- Limestone
- Dolostone
- Evaporites
- Chert

Clastic

- Breccia and Conglomerates
- You Breccia!

Conglomerates

- Coarse-grained
- Cemented
- Assemblage of particles (Rounded!!)
- Contained within matrix (fine-material)



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Breccia

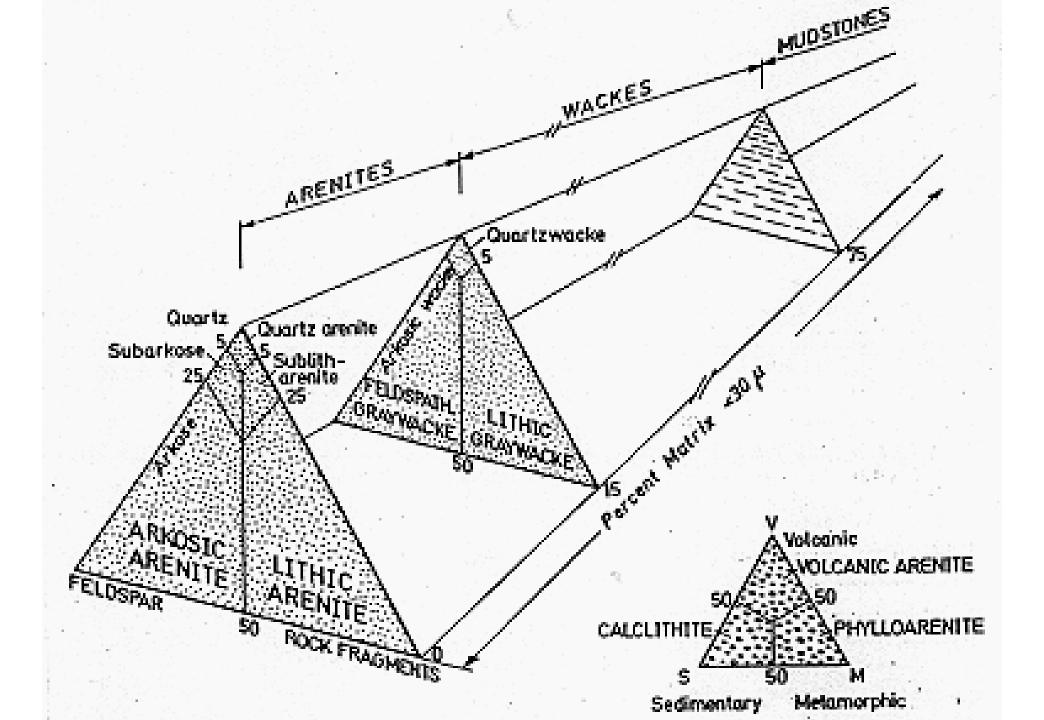
- Coarse-grained
- Cemented
- Assemblage of particles (Angular!!!)
- Contained within matrix (fine-material)



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Sandstone

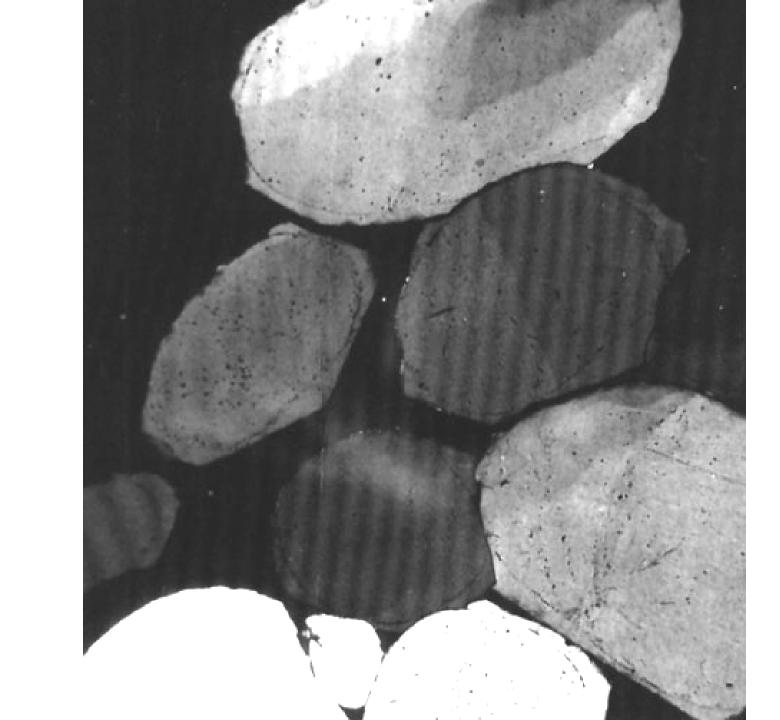
- Quartz
 - Silica-rich
- Arkosic
 - Feldspar-rich
- Wacke
 - Mud-rich



Quartz Sandstone

- X > 90% quartz
- Resistant to weathering
- EOD
 - Beach
 - Desert





Arkose Sandstone

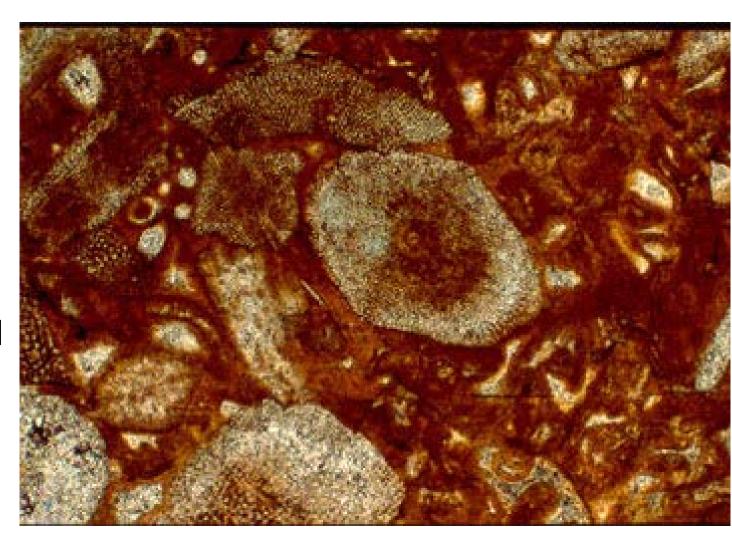
- X > 25% Feldspar
- Coarse angular grains
- Reddish / Pinkish
- EOD
 - New an igneous source





Wacke Sandstone

- Greywacke
- X > 15% clay/mud
- Dark to greenish
- EOD
 - Turbidity currents
- Also may contain feldspar and abundant quartz particles



Shale

- Fine-grained
- Fissile to massive
- Splitting
- EOD
 - Energy?







Chemical Sedimentary Rocks

- Limestone
- Dolostone
- Evaporites
- Chert

Limestone

- Biochemical processes
 - Weathered biologic material (shells, coral, algae)
 - CaCO3, broken down and deposited on the sea-floor
 - Compaction
 - Presto, a Varity of Limestone

Coquina



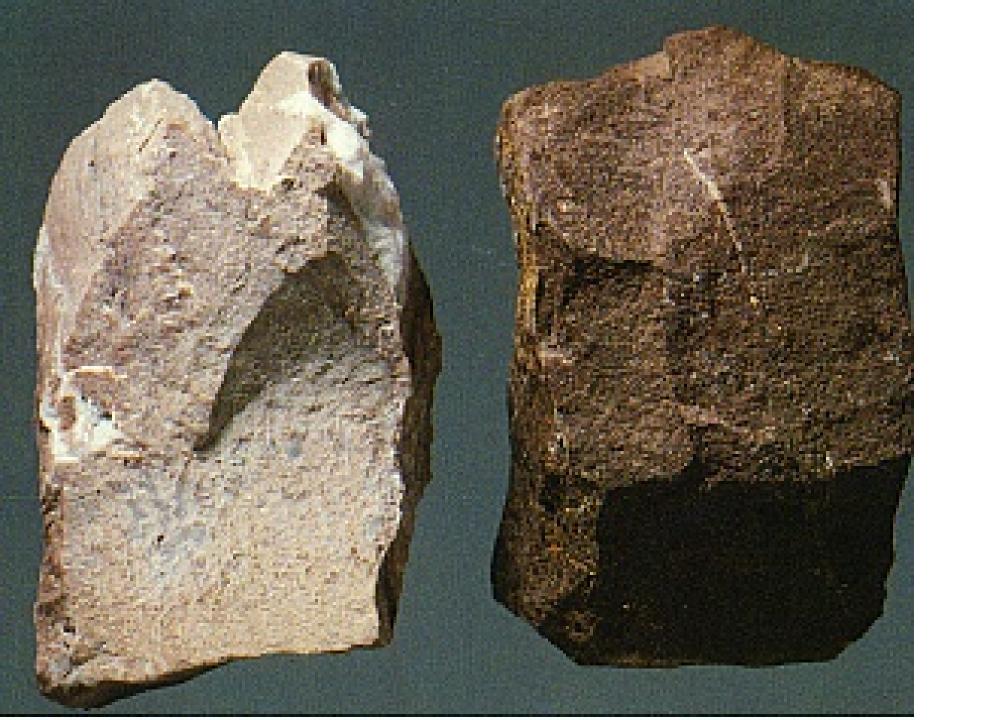






Dolostone

- Chemically altered limestone
- Calcium is partially replaced by Magnesium
 - CaMg(CO3)2
- Form by
 - Magnesium-rich brine
 - Reactions between fresh and sea water environments.



Chert

- Silica
- Types
 - Layers
 - Nodules
- Occur often within limestone
- No one has explained how it is precisely formed, Yet!
- Flint

Evaporites

- Rock salt
- Rock gypsum
- Crystalline structure

