FIGURE 1.1 Classification of sandstones. Modified from Dott, Jr. (1964). Reproduced by permission of the Society of Economic Paleontologists and Mineralogists.
GY 402 Sedimentary Petrology
Lecture 3: Sandstone Classification Schemes

Arenites

Gilbert, 1955

Pettijohn, 1957

McBride, 1963

Folk, 1968
GY 402 Sedimentary Petrology

Lecture 3: Sedimentary Rock Classification (QFL) Ternary Plot
(Folk, 1968)

Field Index:
1 – Quartz Arenite
2 – Subfeldsarenite
3 – Sublitharenite
4 – Feldsarenite (Arkose)
5 – Lithic Arkose
6 – Feldspathic Litharenite
7 – Litharenite
GY 402 Sedimentary Petrology
Lecture 3: Carbonate Classification Schemes

![Table and Diagram]

Fig. 13-22 Folk's classification of carbonate rocks.

<table>
<thead>
<tr>
<th>Allochthonous Limestone</th>
<th>Autochthonous Limestone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Original components not organically bound during deposition</td>
<td>Original components organically bound during deposition</td>
</tr>
<tr>
<td>Less than 10% &gt;2 mm components</td>
<td>Greater than 10% &gt;2 mm components</td>
</tr>
<tr>
<td>Contains lime mud (&lt;0.03 mm)</td>
<td>No lime mud</td>
</tr>
<tr>
<td>Mud-supported</td>
<td>Grain-supported</td>
</tr>
<tr>
<td>Less than 10% grains (&gt;0.03 mm &lt;2 mm)</td>
<td>Greater than 10% grains</td>
</tr>
<tr>
<td>Mudstone</td>
<td>Wackestone</td>
</tr>
<tr>
<td>Framestone</td>
<td>Bindstone</td>
</tr>
</tbody>
</table>

By organisms that build a rigid framework | By organisms that encrust and bind | By organisms that act as baffles |