

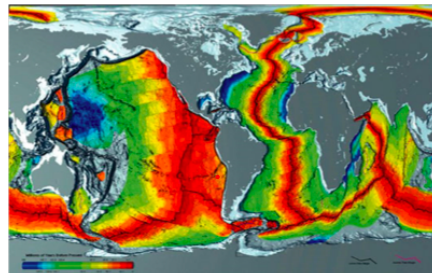
Tues 5-24-11 Day 1 IS 2

- 1) Complete notes on History of Plate Tectonics
- 2) Begin to color and cut out Pangaea

HW: Take care of any missing work  
Final on Friday 6-3

Seismology Quizzes in IC! :D

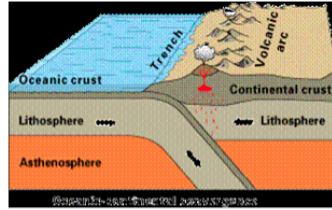
library.thinkquest.org/17457/plate\_tectonics/3.php  
**Rate of movement** – 2 – 20 cm/year  
Average of 5 cm/year = 2 inches/year



www.physicalgeography.net/fundamentals/10\_1.html  
\*\*Plates carry ocean basins as well as continents!

**Oceanic Crust**

- thinner (less than 10 km)
- basaltic, higher density (3.0 g/cc)
- younger (no older than 200 m.y.a.)

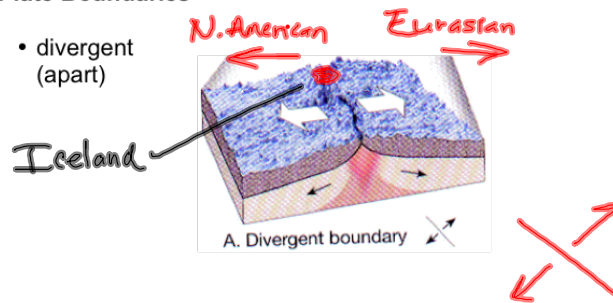


**Continental crust**

- thicker (up to 70 km thick under mountains)
- granitic, lower density (2.7 g/cc)
- older (as old as 3.8 b.y.a.)

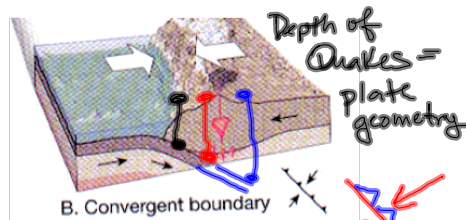
**Plate Boundaries**

- divergent (apart)

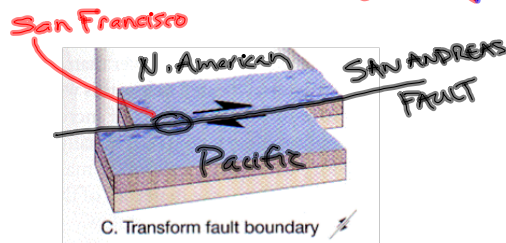


- convergent (together)

*With Subduction*



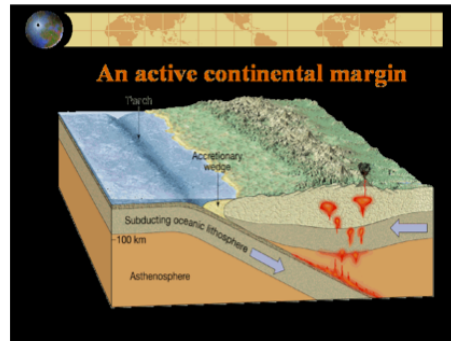
- transform (side-side)



### Continental Margins

- **active** – edge of continent = plate boundary  
Ex: West Coast of USA

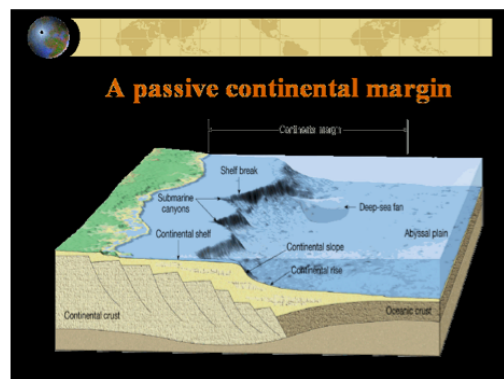
volcanism, earthquakes, steep edge to continental margin



[geoweb.tamu.edu/](http://geoweb.tamu.edu/)

- **passive** – edge of continent is NOT a plate boundary  
Ex: East Coast of USA

no volcanism, no major earthquakes, gently sloping continental margin



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