

## Chapter 3 : Plate Tectonics

There are many plate boundaries and they have unique characteristics

### Fossil Data and Continental Drift

- similar animals at boundaries between continents
- continents were all together at one time
- WW2 changed our perspective
- map where all the earthquakes happen, where all of the volcanoes were
- mountains in the belts

### Three Types of Relative Plate Motions

#### Moving apart: divergent boundary (Atlantic ocean)

- magma is coming up from the bottom to fill the gap
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#### Moving toward each other : Convergent Boundary

- same density
- the plate begins to melt at some depth and forms a chain of islands
  - move horizontally past one another: transform boundary (san andres fault)
    - zig-zag pattern and is not a linear path for the fault

### What moves the Plates

We are not sure what the root cause of the movement is