Where are earthquakes?
Ring of Fire!
Earthquake Faults

Strike-Slip Fault
Earthquake Faults in Los Angeles

We are here
Earthquake Fault Breaking a Road
Earthquake Fault in Idaho
The San Andreas Fault near Los Angeles
M7.0 Earthquake on a Strike-Slip Fault
Deformation on Ground Surface

Observer

Brad Aagaard
U.S. Geological Survey
Buildings Falling Over in Japan
Earthquake Effects - Ground Shaking

Kobe, Japan 1995
Earthquake Effects - Ground Shaking

Northridge, CA 1994
People Working on Earthquake Problems

- **Scientists**
  - Where are faults
  - When was the last earthquake?
  - How big is the next earthquake?

Photo by K. Kendrick

Hector Mine
People Working on Earthquake Problems

- **Engineers**
  - Design buildings
  - Design bridges
  - Designing slopes and foundations
  - Make you safer!
Earthquake engineers do lots of testing!
Pit Camera View
UCLA Earthquake Engineers

Dr. Bob
Dr. Alberto
Steve
Erica
Is a giant turtle or a giant catfish making earthquakes???
Will California eventually fall into the ocean???

No!
Is there such a thing as “Earthquake Weather”???

NO!
Can we predict when earthquakes will happen???

NO!
Can Engineers make buildings safe for earthquakes???

Yes!
DROP
COVER
HOLD ON!