



Leaning Tower of.... Spaghetti?!

Expanding Your Horizons

2007

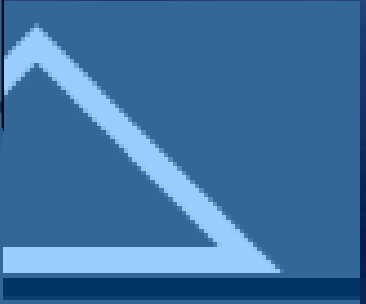
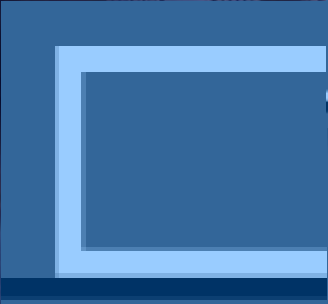
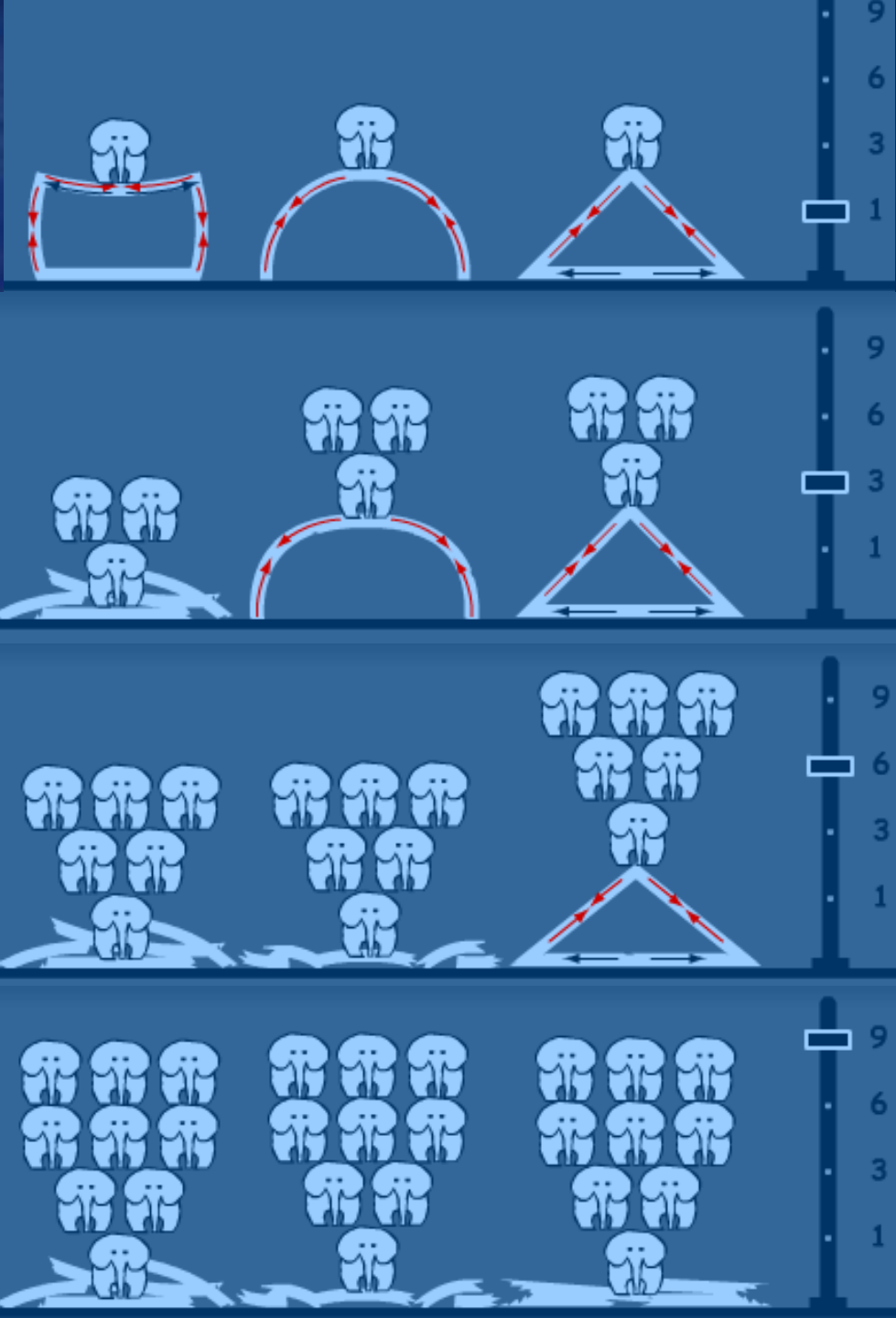
Why is height such a big challenge?

GRAVITY



So which type of structure can hold the
MOST weight?





How high could we build without steel?

1046 ft



1928

986 ft



1889

515 ft



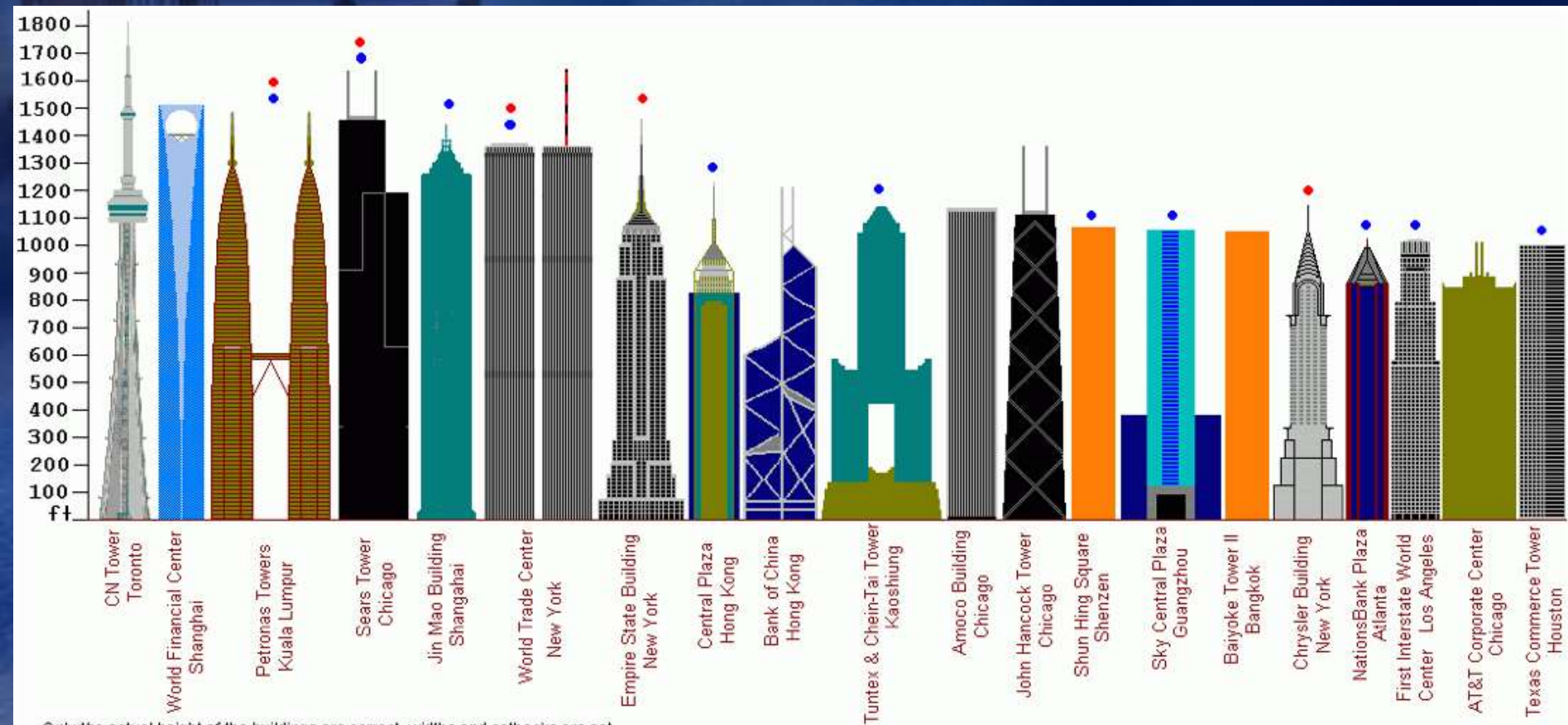
1248

481 ft



2570 BC

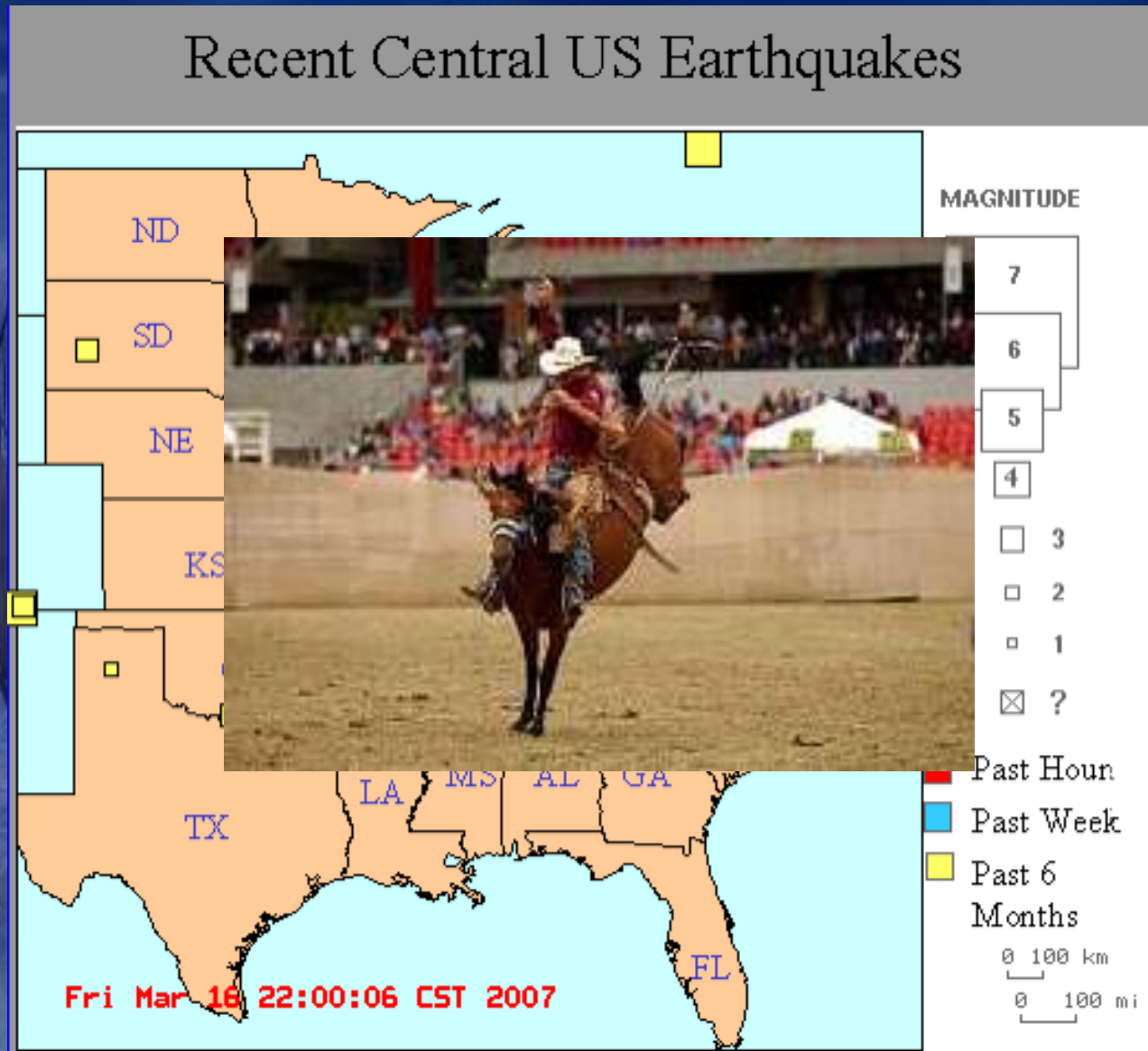
What's the TALLEST building in the world?



Only the actual height of the buildings are correct, widths and setbacks are not. Red dots indicate that the building was at one time the tallest in the world, blue dots indicate that it is the tallest in the city it is in.

Image Courtesys of Nalyd's Skyscraper Page:
<http://webs.ii.ca/nalyd/skyscrapers/tallones.htm>

Why are earthquakes so destructive?



Is it better to build on soft or hard ground?



A photograph of the Golden Gate Bridge at night, with the bridge's towers and suspension cables illuminated against a dark blue sky and water. The bridge spans across the water, and the lights create a shimmering effect on the surface.

3 Main Tips for building OUR towers:

- 1) If you're going to build UP, don't forget to build OUT
- 2) Pick STURDY ground
- 3) Stay flexible (psst, try using marshmallows!)

A photograph of the Golden Gate Bridge at night, illuminated against a dark blue sky and water. The bridge's towers and suspension cables are visible, extending from the left side of the frame towards the right.

Material Costs

SPAGHETTI \$ 0.10

MINI MARSHMALLOWS \$ 0.50

LARGE MARSHMALLOWS \$ 2.00