Curvature, Roughly Christopher A. Stover cstover@math.fsu.edu

## WHAT IS CURVATURE?

Roughly speaking, curvature is a mathematical device which quantifies how "not flat" something is:



# QUANTIFYING CURVATURE

In particular, there are different kinds of "not flat":



Not Flat + Convex (it pokes out)

This can be made mathematically precise:

Roughly speaking, flat things are said to have *zero curvature* while things which are not-flat and convex are *positively curved* and those which are non-flat and concave are *negatively curved*:







