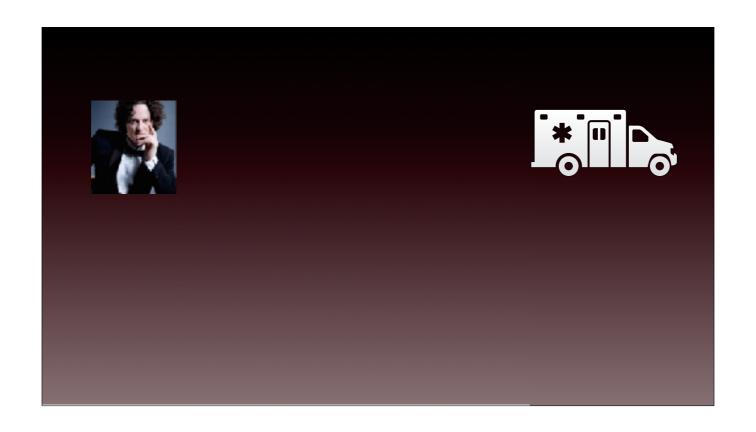
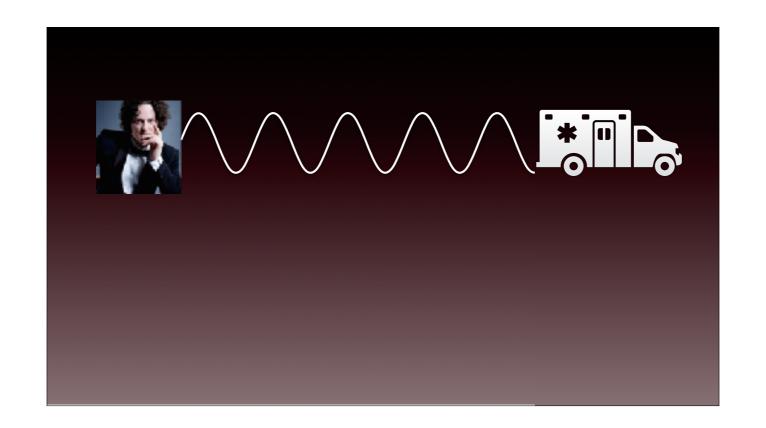
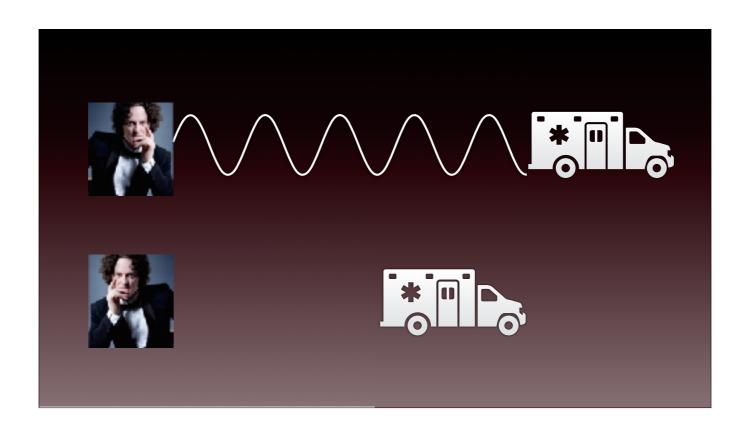
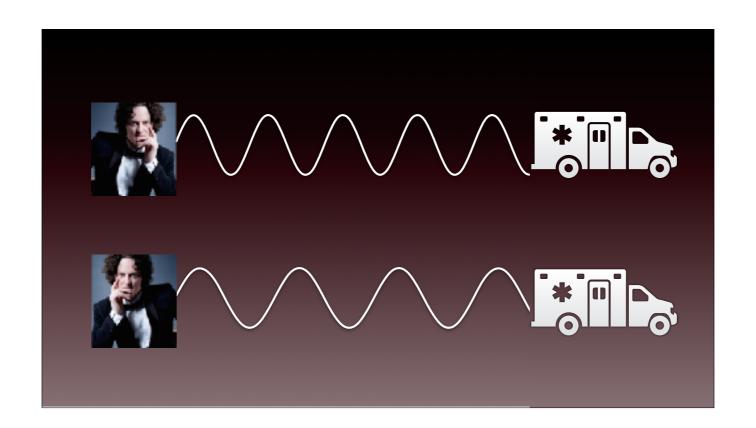


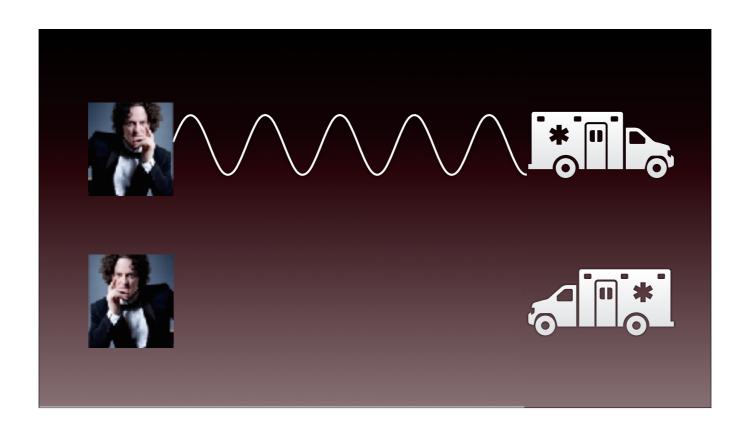
Doppler Effect

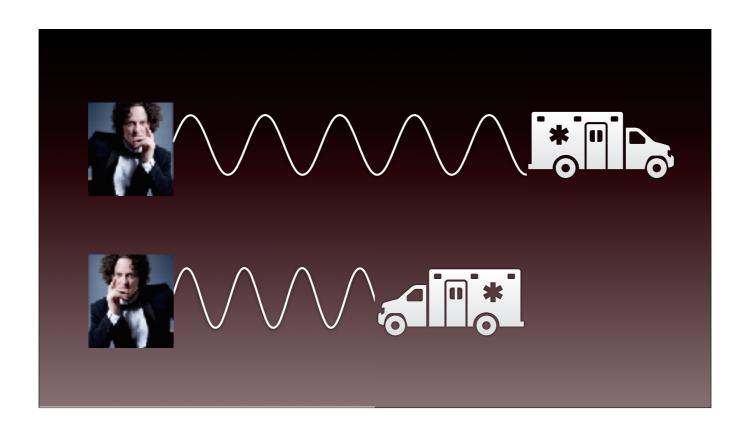


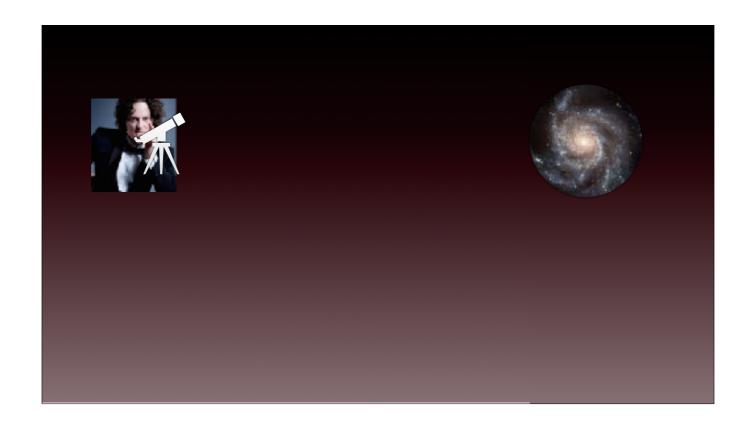


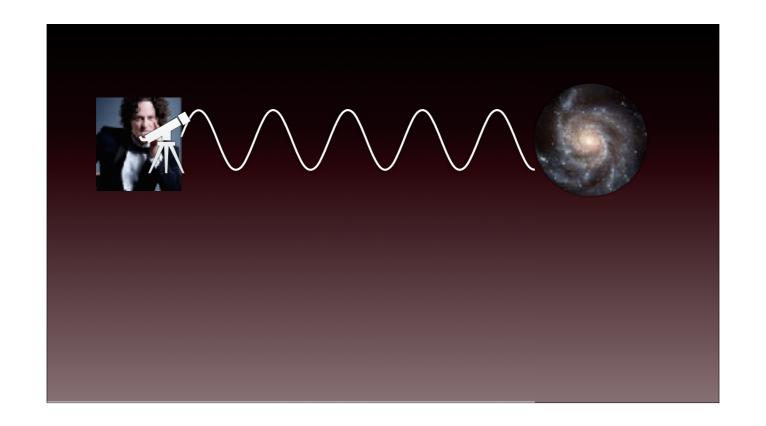


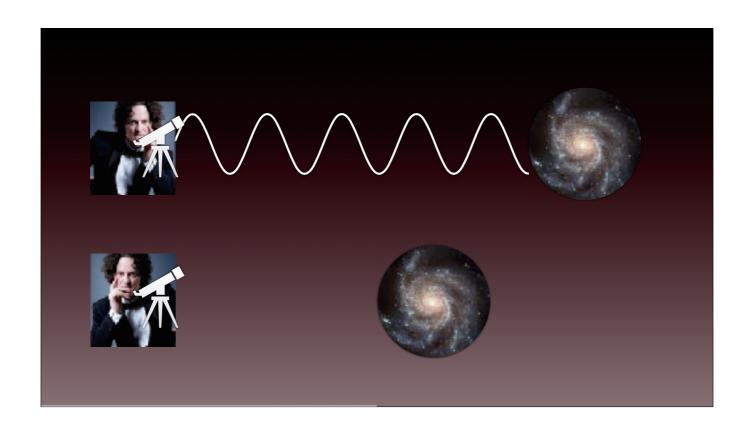


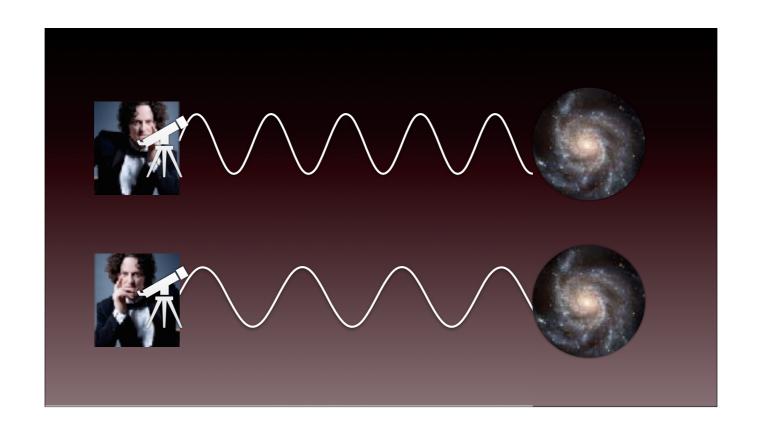


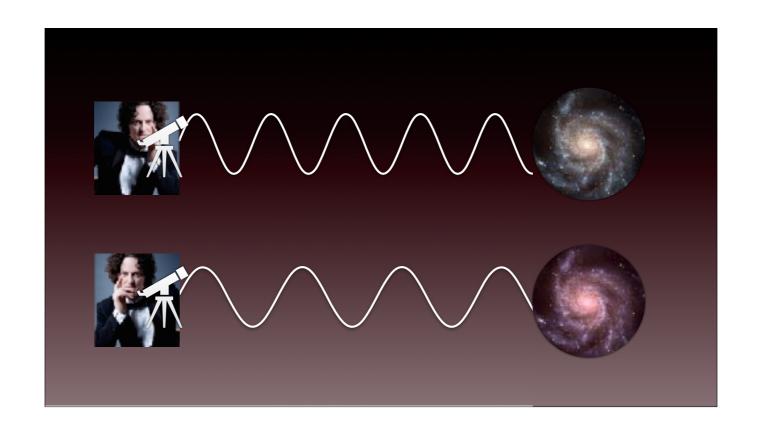


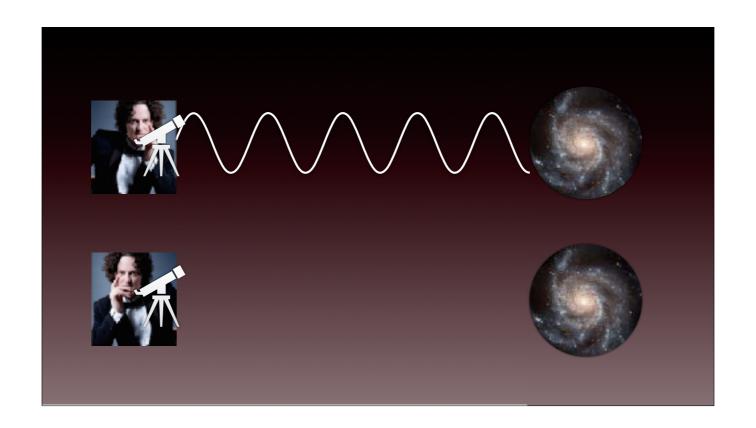


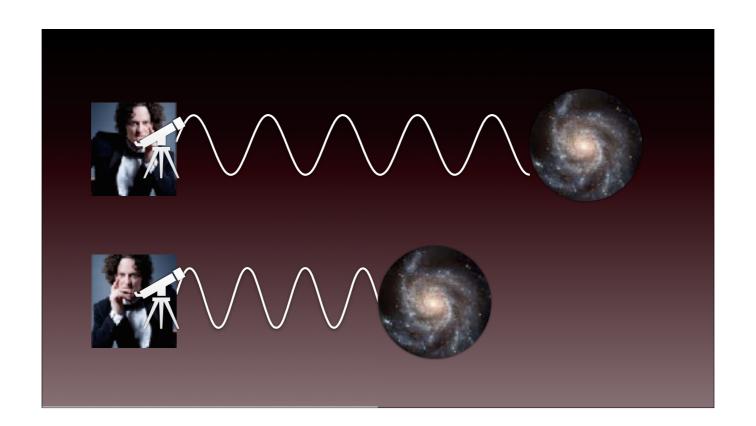


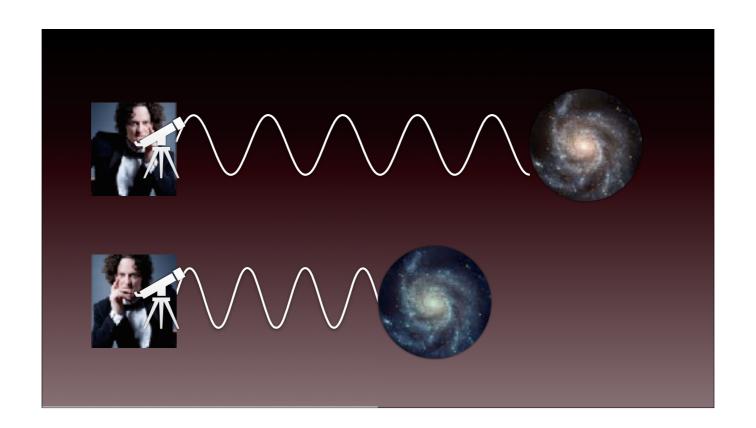








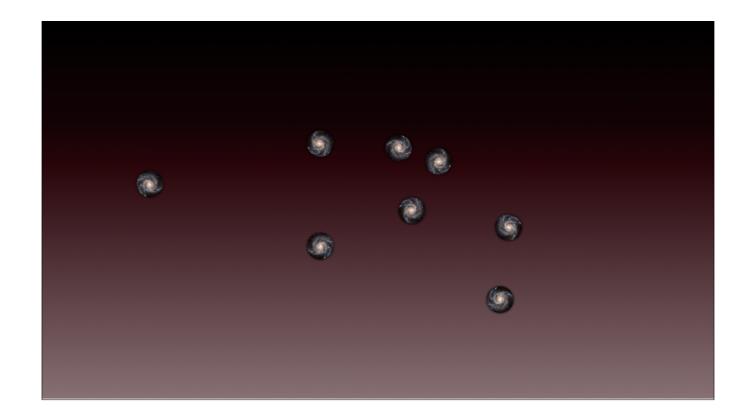


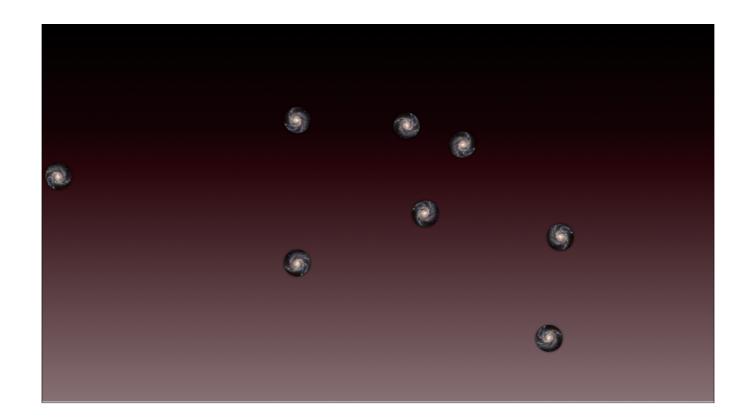


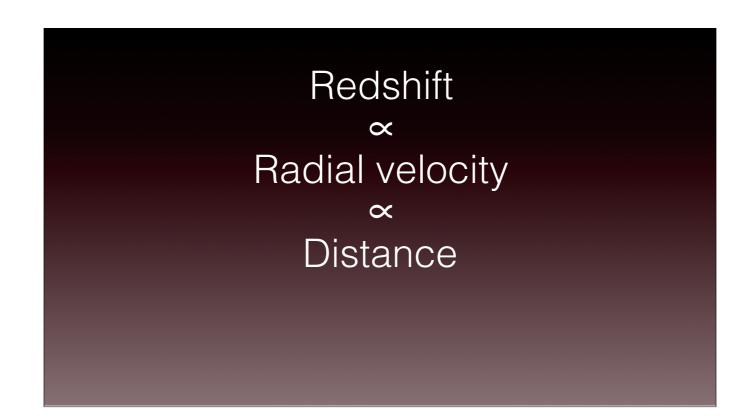


Most galaxies are moving away from us, but not Andromeda. Collision in 4B years.

Redshift ∝ Radial velocity





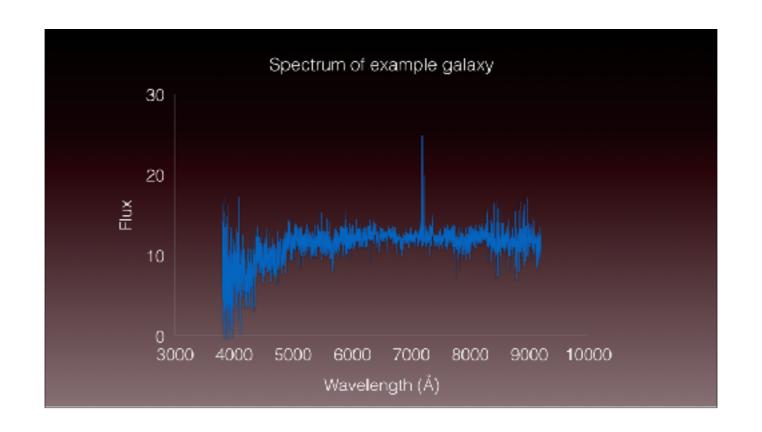


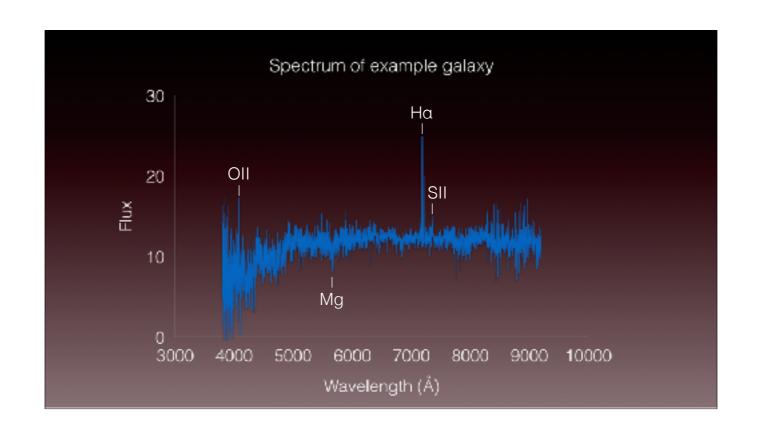
Not truly \propto to distance b/c of acceleration of universe expansion. This is why redshift is called z.

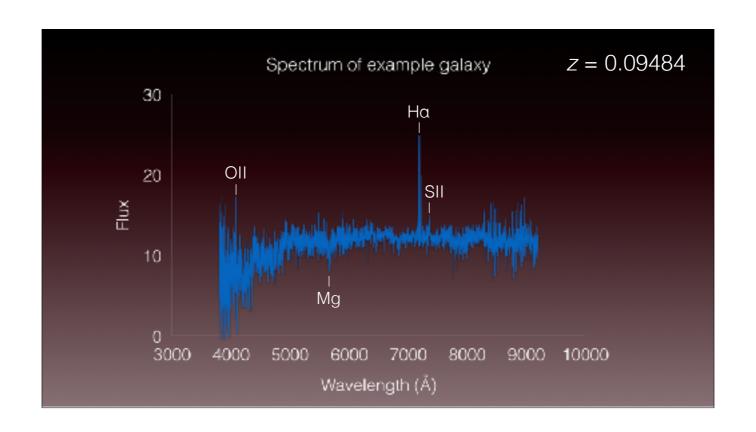
Redshift

Radial velocity

Compared to the second s

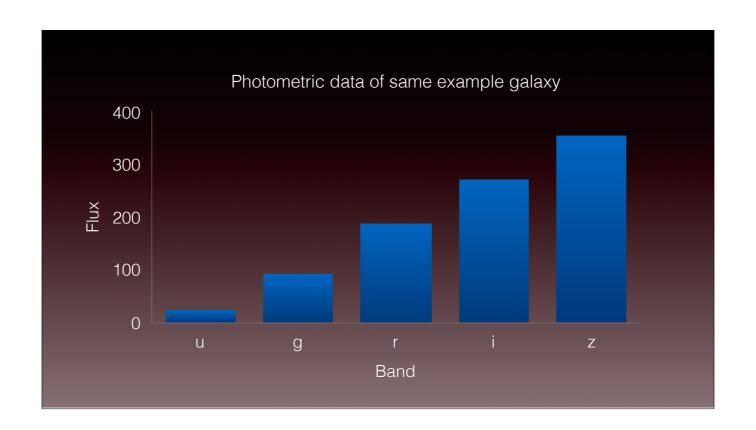




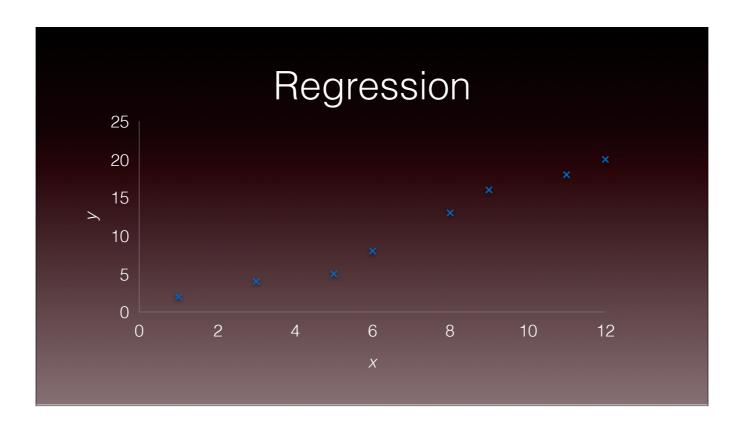


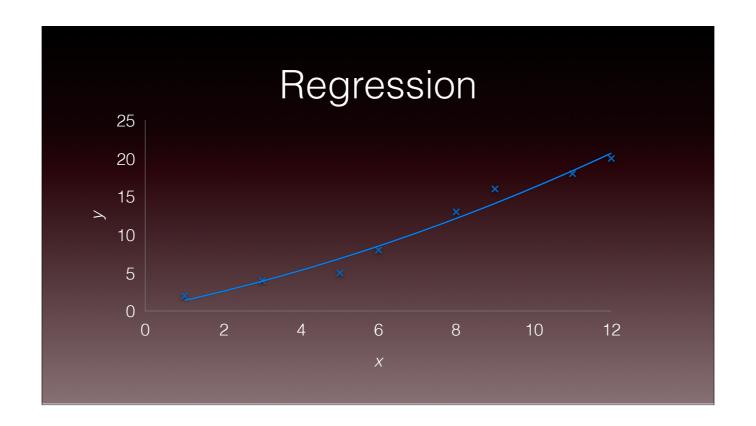
750 Million

galaxies in the AllWISE survey, $z \le 0.5$



Regression





This approach only takes you so far. Mention inaccuracy and limited range.

Active learning

