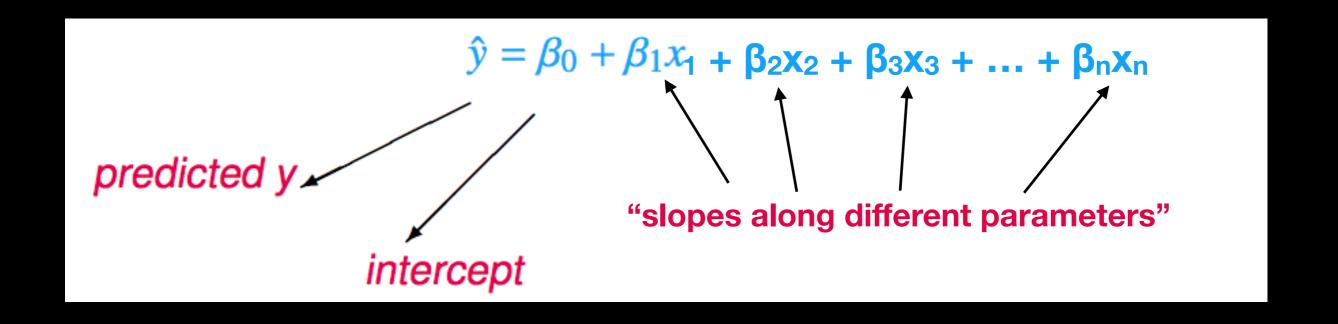
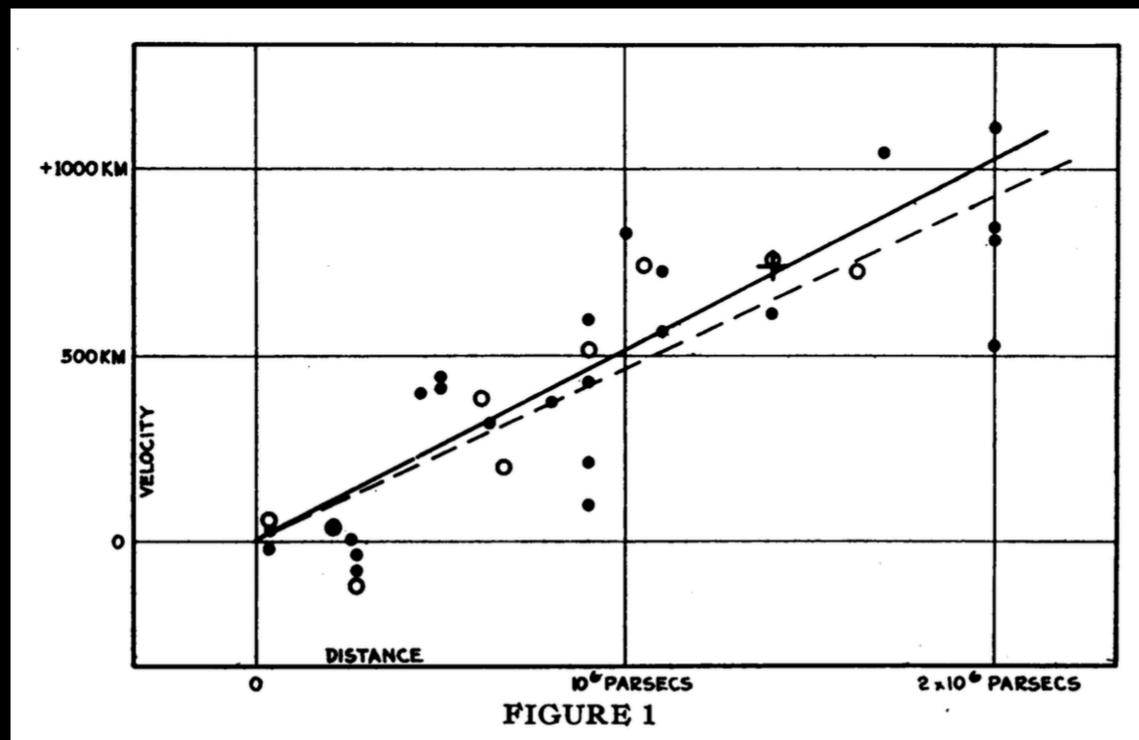
### Some "non-linear" linear models



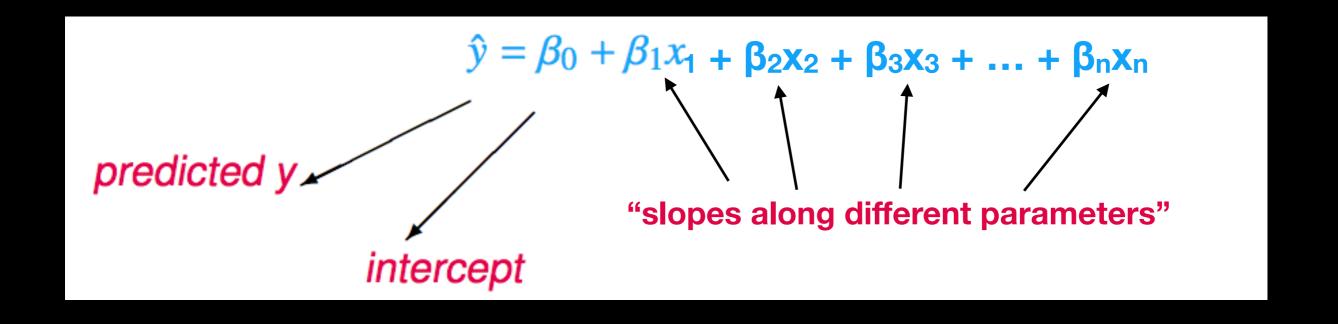
what can  $x_n$  be here? For example, I can say  $x_4 = x_3^2$ ?

# Put it all together with an example: Hubble's Law



Velocity-Distance Relation among Extra-Galactic Nebulae.

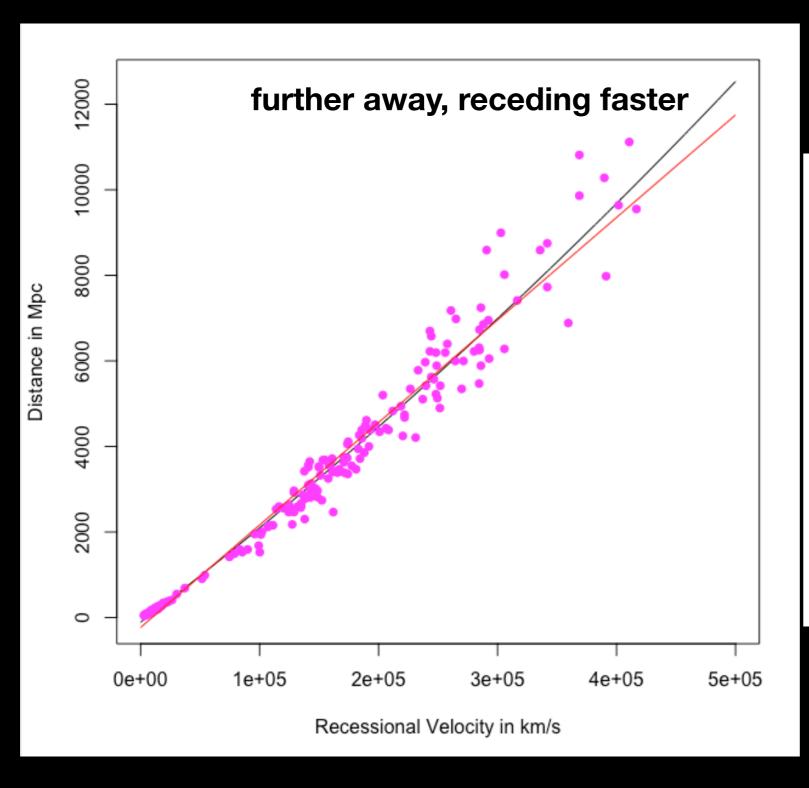
#### Some "non-linear" linear models

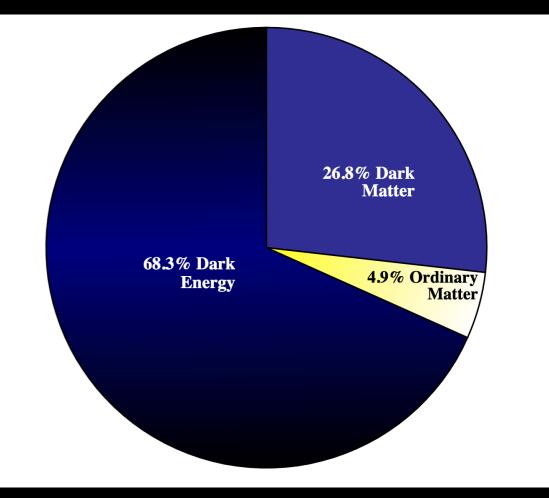


what can  $x_n$  be here? For example, I can say  $x_4 = x_3^2$ ?

Yes!

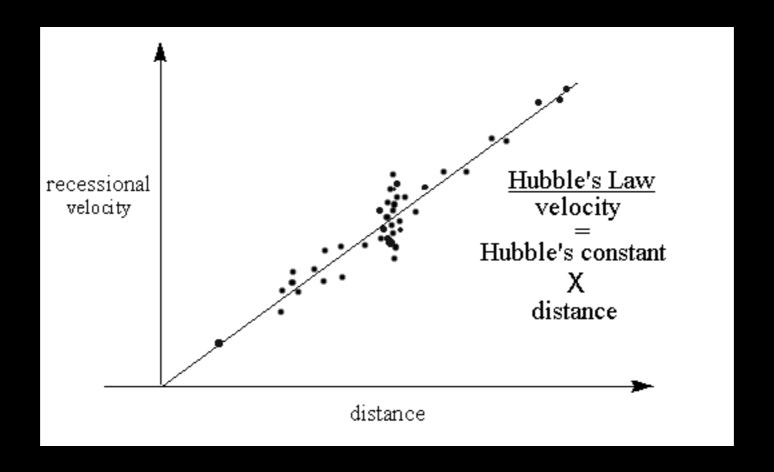
## Let's do this in R for the Hubble data







## Hubble's Law



In essence: galaxies that are further away from us look like they are moving away from us faster than those near by