

Cats and Stats



Cats and Stats



Why stats with cats

Cats are savvy computer users

On



Why stats with cats

Cats are independent thinkers.

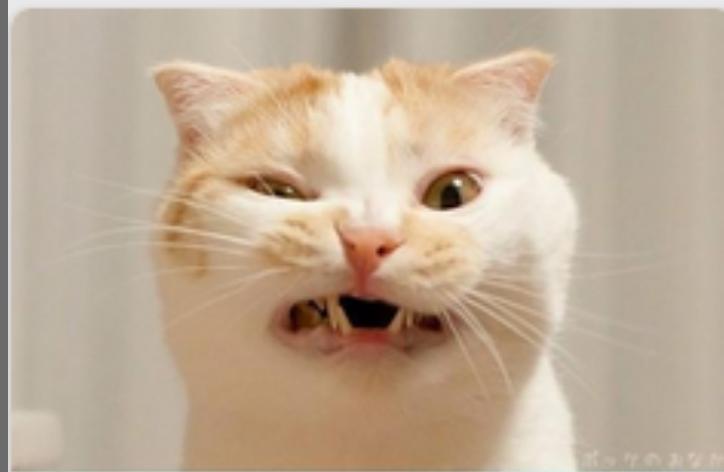
On



Why stats with cats

Cats can examine things critically.

On



The data ladder



←continuous

←CATegorical

Dichotomous variables

1

On

0

Off



CATegorical variables



Gray



White



Orange

CATegorical variables



Male



Femal
e

Observed versus expected values



Male



Female

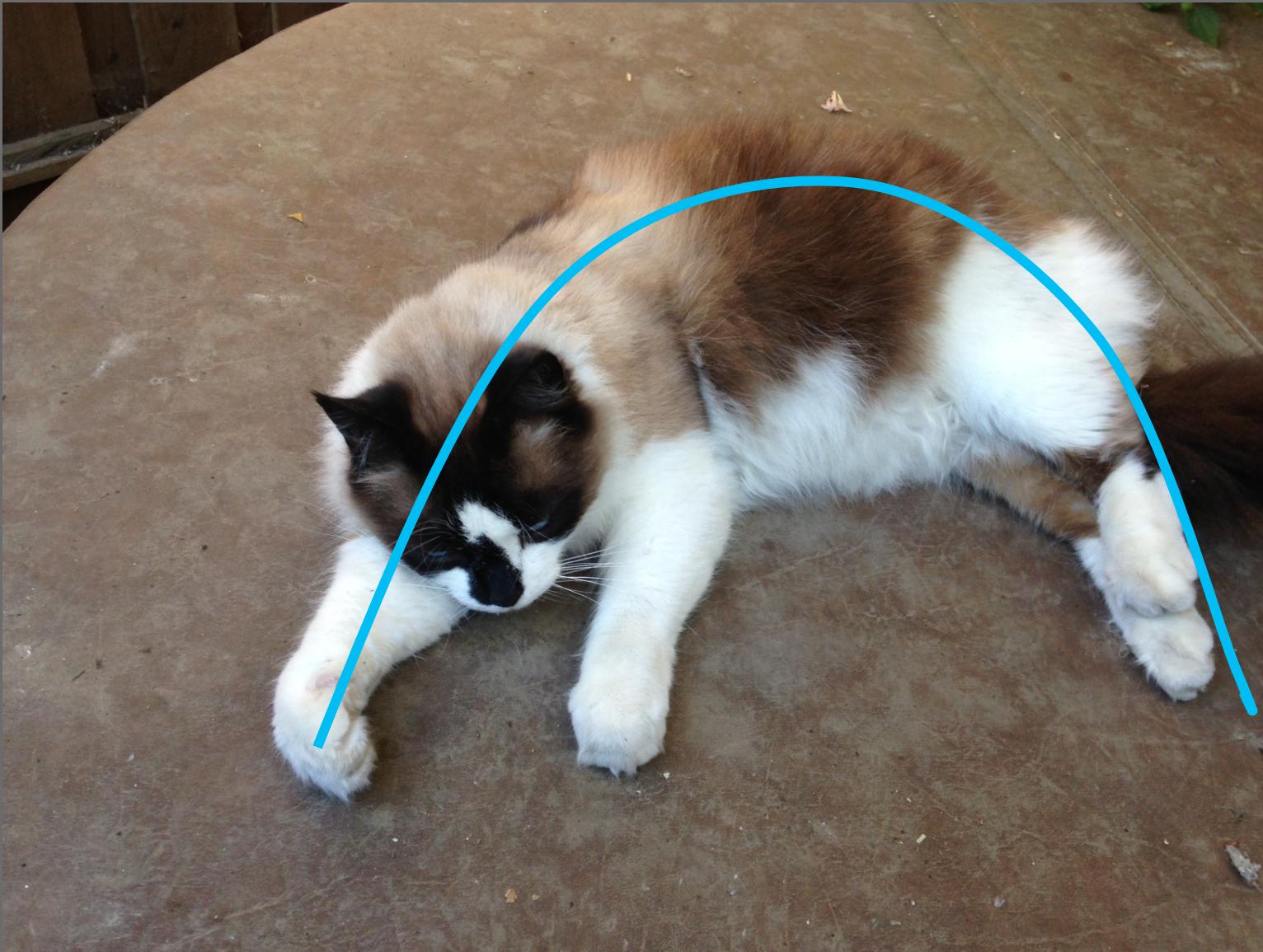
	Male	Female
Mixed	25	25
Exotic	25	25

	Male	Female
Mixed	10	40
Exotic	30	20

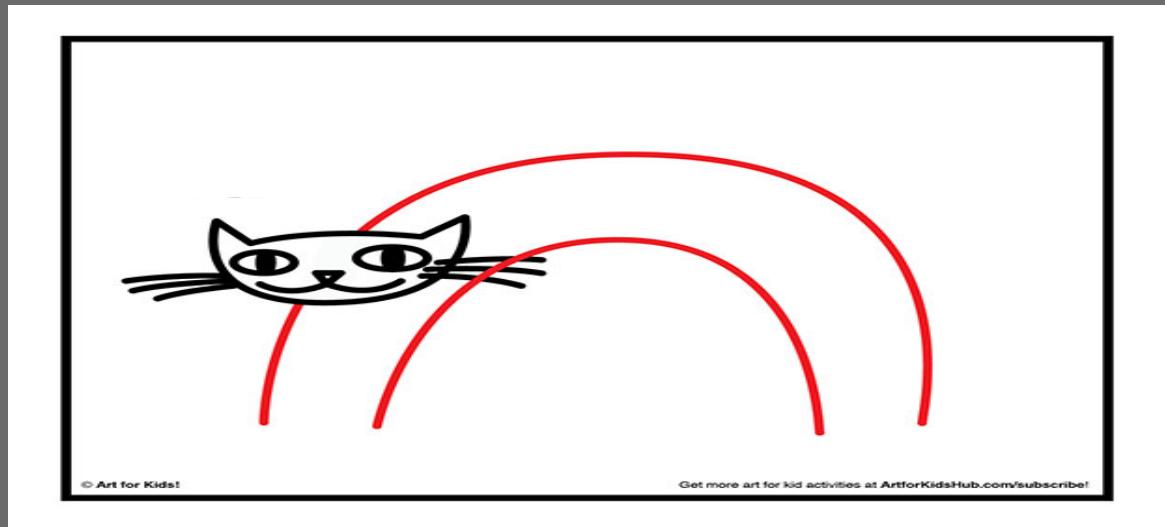
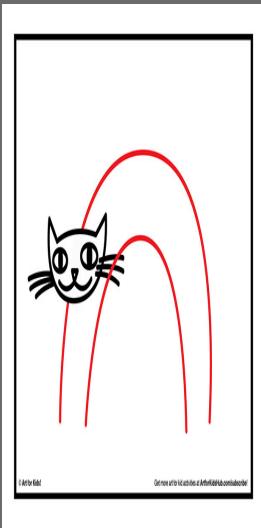
Continuous



Distribution

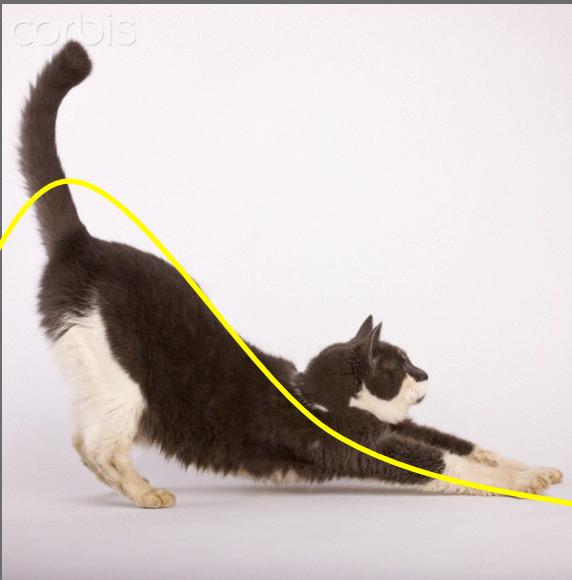


Distribution



Skewness

Negative skew



Positive skew

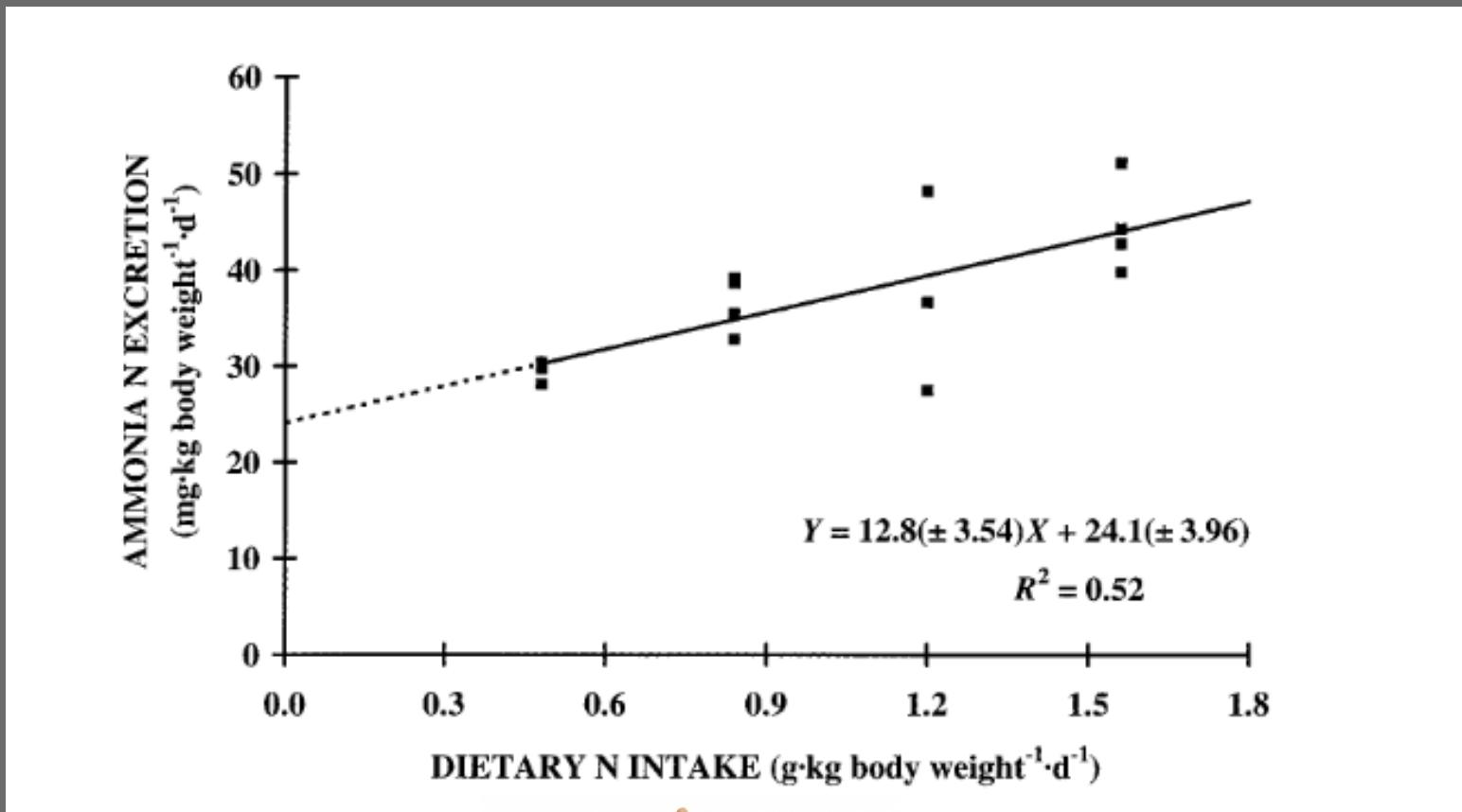
Paired tests



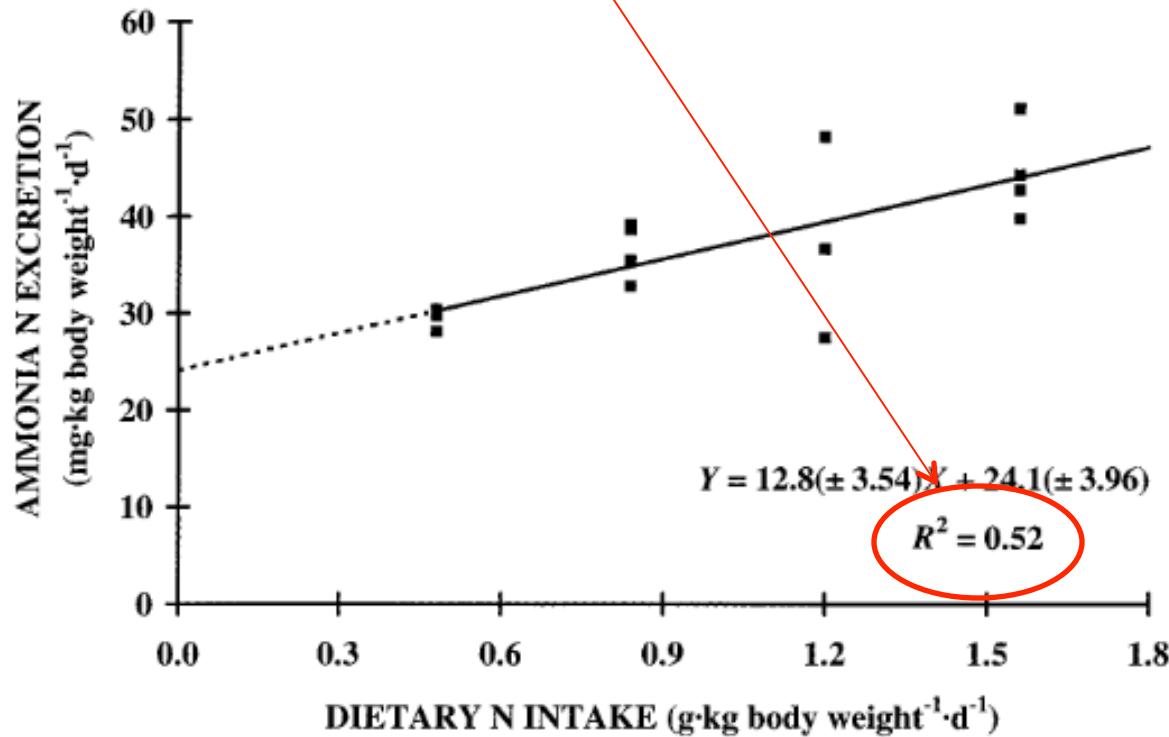
Correlation



Regression: Dietary intake versus ammonia excretion



52 percent of change in
“output” can be explained by
input



Sampling

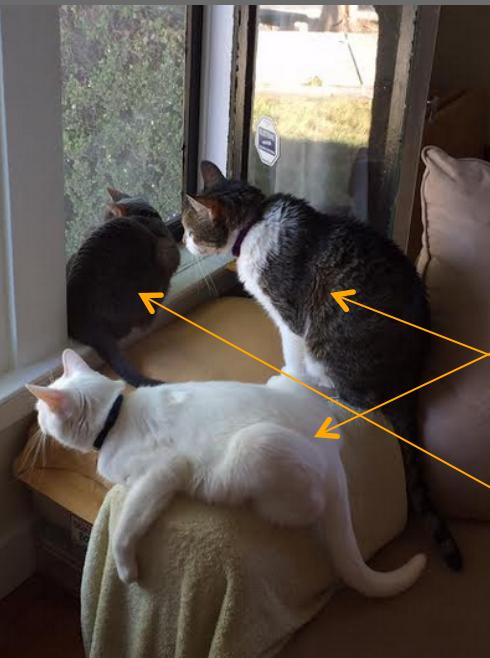
When you can't get an entire database or when you want to test your data – use a statistical sample



Sampling error

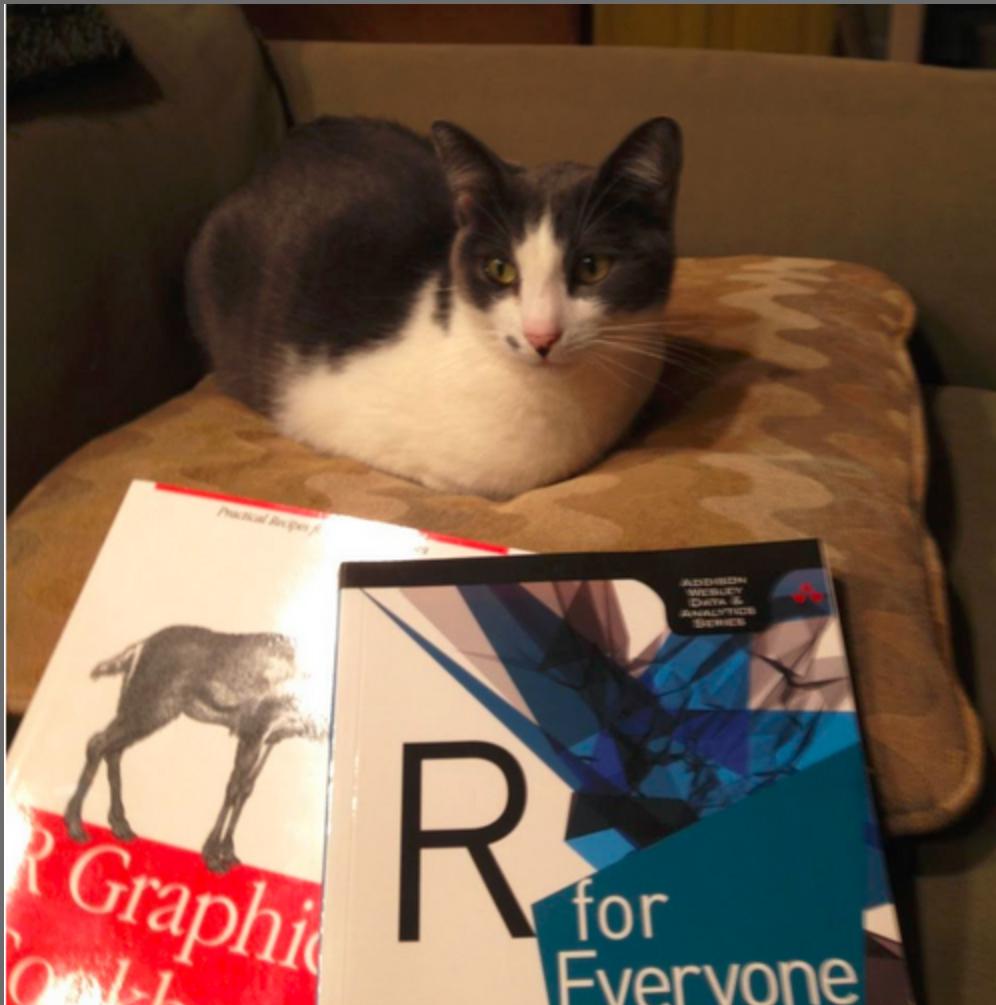
Index

Combines several factors into one number for comparisons

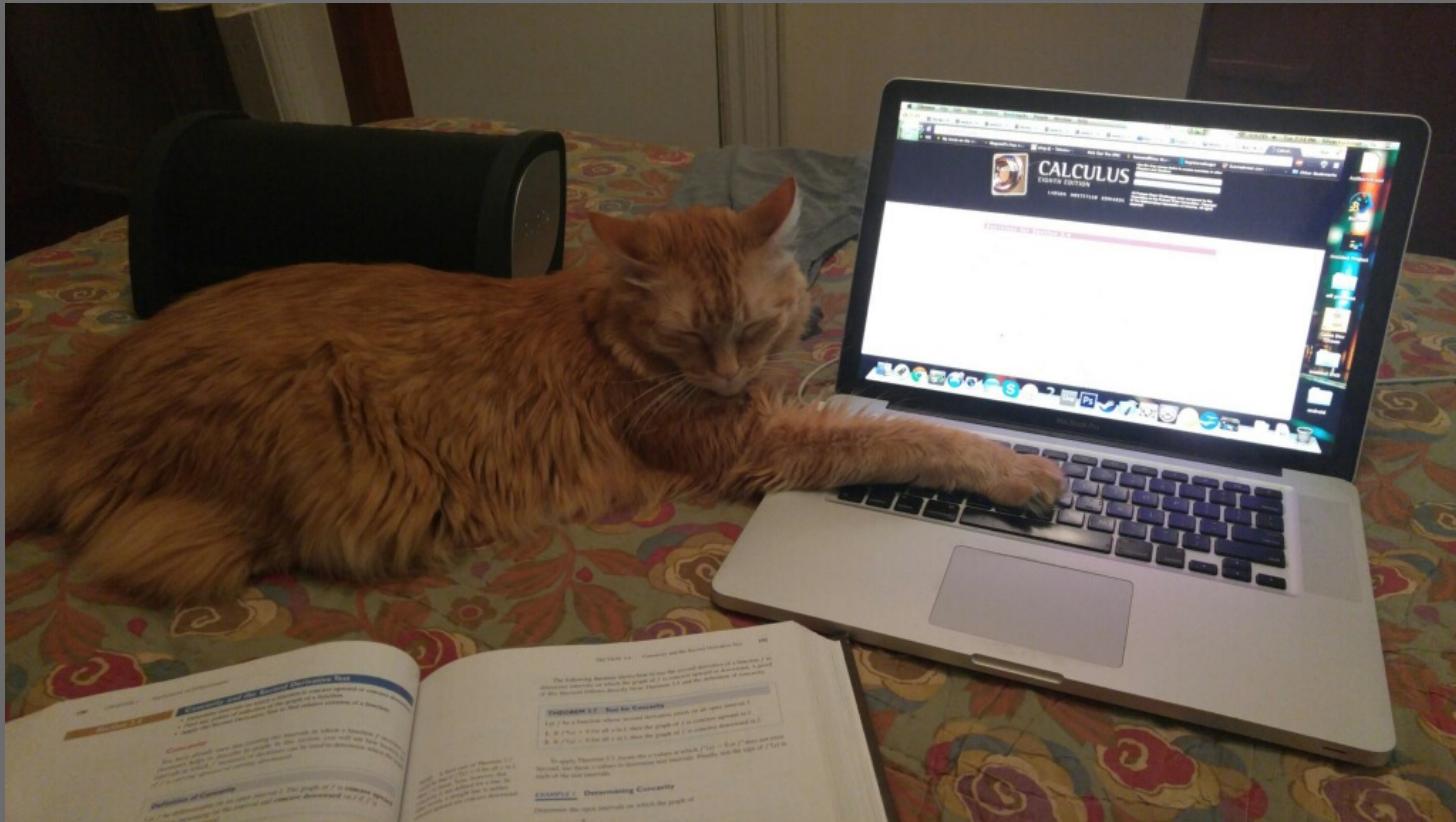


	A	B	C	D	E	F	G
1		Shedding	Vocalness	Friendliness	Energy level	SCORE	
2	Stanley	1	3	2	3	2.25	
3	Gordon	1	1	3	2	1.75	
4	Elsah	3	2	1	1	1.75	

Tips: Study



Tips: Do your homework



Tips: Examine your work closely



Tips: Talk to experts



Tips: Get plenty of food and rest



Tips: Repeat your work



But remember: You can do it



Meow!



Basie



Gordon



Boris



Harley



Ben



Luna



Elsah



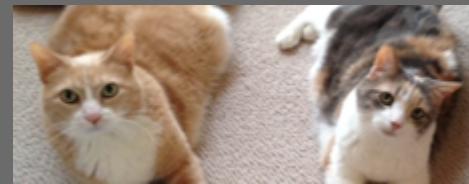
Mocha



Roux & Jazzy



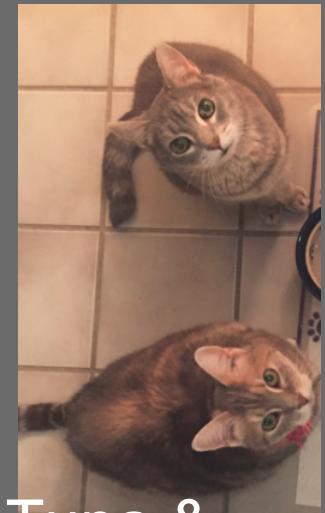
Stanley



Simon & Simone



Tia & Belle



Tuna & Pearl