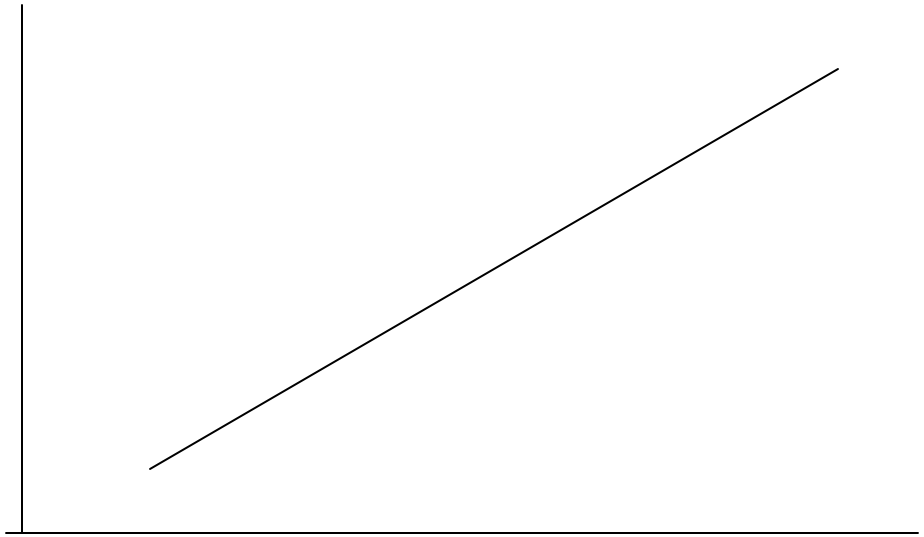
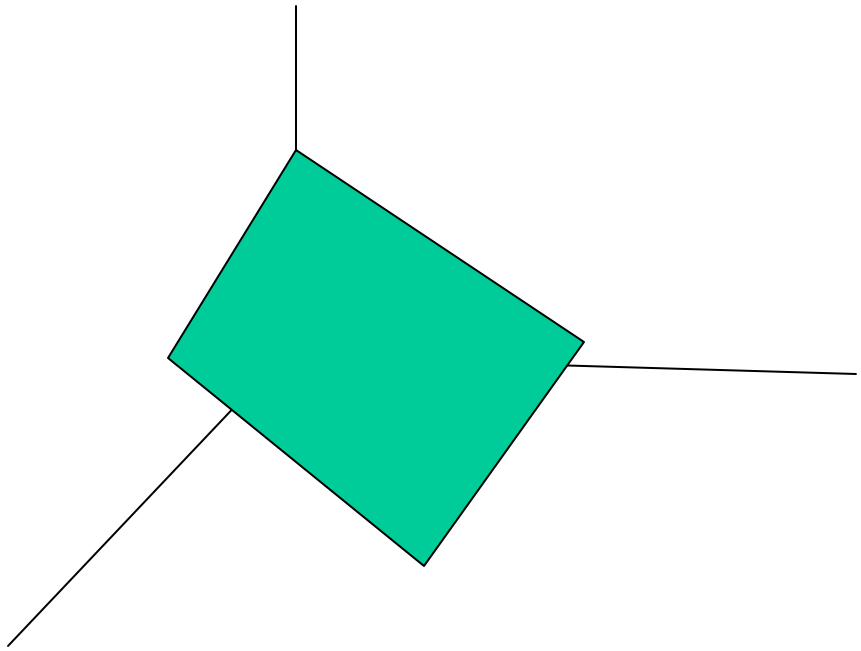
Akaike Breaky Chart

Lyrics by Terrence Lee, MPH, PhD Epidemiology Candidate

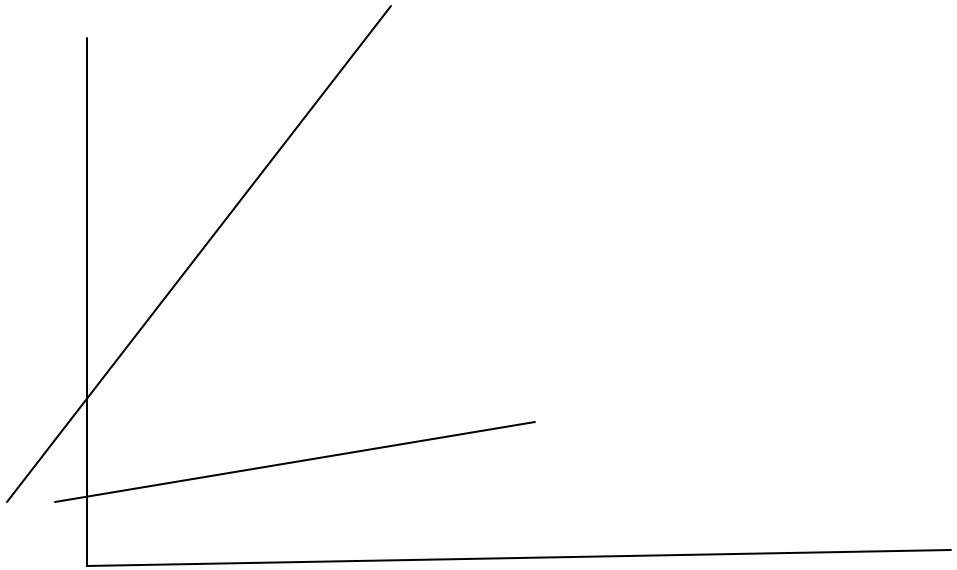
Sung to the Tune of Achy Breaky Heart by Billy Ray Cyrus



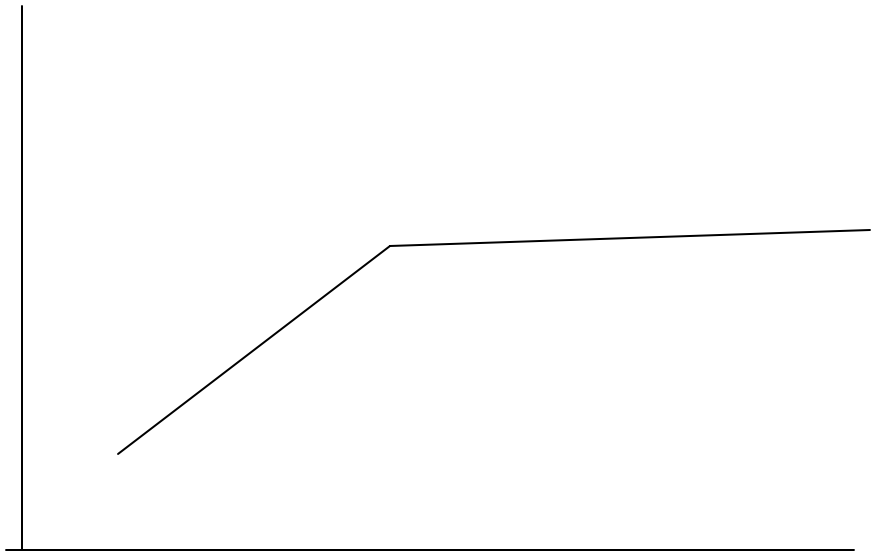
If there is a line, one variable is fine
The regression won’t be very hard



And you needn’t have to roar
if you think you got a board
Just go and do MLR



If one slope is steeper
Let ANCOVA be your creeper
If you think you have some interaction

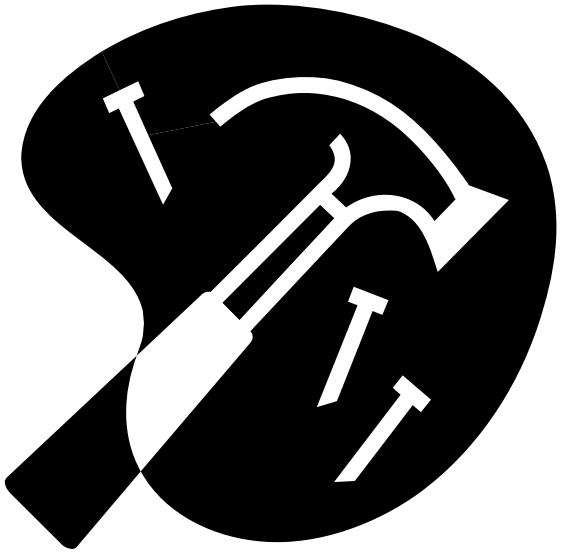


And if a broken line
just whip out bamboo spline
Oh yes we’re really havin fun

Model	Degrees of freedom	Residual sum of squares (RSS)	Residual mean square (MSE)	AIC = RSS + 2*(model df)
Linear	1	1083.205	1.2089	1084.205
Monthly means	12	922.606	1.0422	946.606
Linear spline	4	938.261	1.051	946.261
Cubic spline	4	934.220	1.046	942.220

Just put it in your chart
your Akaike breaky chart
if you want to see which one is best

R square don’t cut the mustard
Unless it is adjusted
In a pinch use something like F test



Tho’ we call regressin’

We’re a building and a dressin’

When we add a spline and other term

Not too many, not a fuss

Let’s be parsimonious

Too much it makes the teacher squirm

If Dichotomous

Do a little fuss

If you want so see the data fit

Take out the good ol’ odds

And put it in a log

And type command logit

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