WWS 508b Precept 5

John Palmer

March 23, 2010

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transforming variables in Stata

difference between values and labels

Let's say we want to work with the rincom98 variable in the GSS data. We codebook it and get this:

rincom98 respondents income type: numeric (byte) label: rincom98 range: [1,98] units: 1 unique values: 25 missing .: 963/2812 examples: 13 \$20000 to 22499 18 \$40000 to 49999 23 \$110 000 over

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What should we type to create a new dummy variable indicating incomes of \$20,000 and over?

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What should we type to create a new dummy variable indicating incomes of \$20,000 and over?

```
gen dummy = 1 if rincom98 >= 13 & rincom98 <= 98
replace dummy = 0 if rincom98 < 13</pre>
```

regression through the origin (slide revised 4/30/2010)

Let's say you want to fit the model

$$\hat{y} = \hat{\beta}_0 + \hat{\beta}_1 x$$

but you want your intercept term $(\hat{\beta}_0)$ to be equal to zero. In other words, you want your regression line to run through the origin. How can you do this?

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In Stata, just add the option **nocontant** to the regression command. E.g.:

reg y x, noconstant

Can Question 1 be done using the conditional probability rules from the "Introduction/Review" handout?

Yes. You can use Bayes' Rule if you know it and want to, but you should be able to figure out the answer based on the handout. If you're curious, Bayes' Rule is:

$$\Pr\{A|B\} = \frac{\Pr\{B|A\}\Pr\{A\}}{\Pr\{B\}}$$

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Questions about testing proportions

Review solution to Question C9 in Problem set 1



Questions about graphing

Review do file for Problem Set 3

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