Interactive graphics in the browser using Stata2D3 & Stata SVG graphs

Robert Grant
BayesCamp
robert@bayescamp.com

Tim P. Morris
tim.morris@ucl.ac.uk
MRC Clinical Trials Unit,
University College London
deja vu

- Yes, this appeared at 2014 Stata Users Group.
- But now we can use Stata's SVG graph export.
what does it do?

- Take a standard graph command, plus interaction
- Make the graph and export to SVG
- Edit the SVG to identify objects such as markers as axes
- Wrap the SVG code inside HTML, and add JavaScript to do basic interaction
sysuse auto, clear
gen hoverfacts = strofreal(mpg) + " MPG, $" + strofreal(price)
d3, htmlfile("d3_html_test.html") clickright(make) ///
    hovertip(hoverfacts) mgroups(foreign) replace: ///
    scatter price mpg, scheme(s1mono)
example

Renault Le Car

Price

Mileage (mpg)
example
example
principles

• Keep the styling simple, so you can elaborate in CSS.
• Keep interaction simple, so you can elaborate in JavaScript
• "It's educational"
work in progress

- circles now, paths next
- click -> text below or right
- hover -> text below or right
- hover -> tooltip
- buttons to highlight groups of markers
- you can contribute at github.com/robertgrant/stata2d3