

econodistplot: Distribution box plots, *Economist* style

Alex Gamma

Swiss Stata User Group meeting

Online

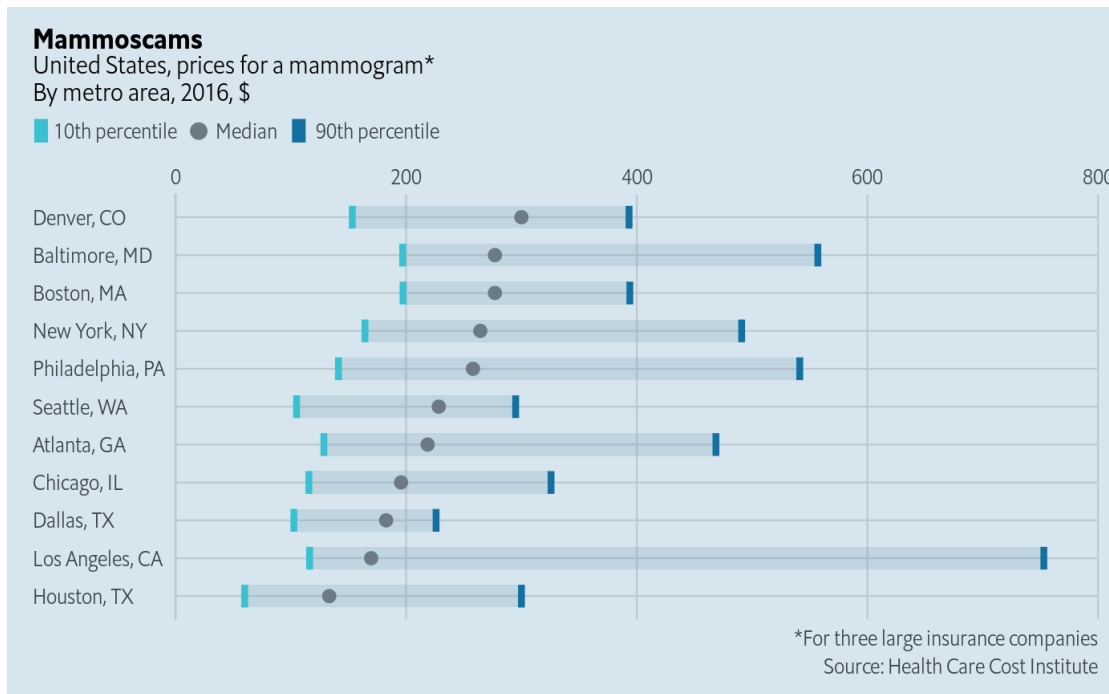
19.11.2020

Content

- **Inspiration**
- `econodistplot` in action
- `econodistplot` syntax options
- **Issues**

Inspiration

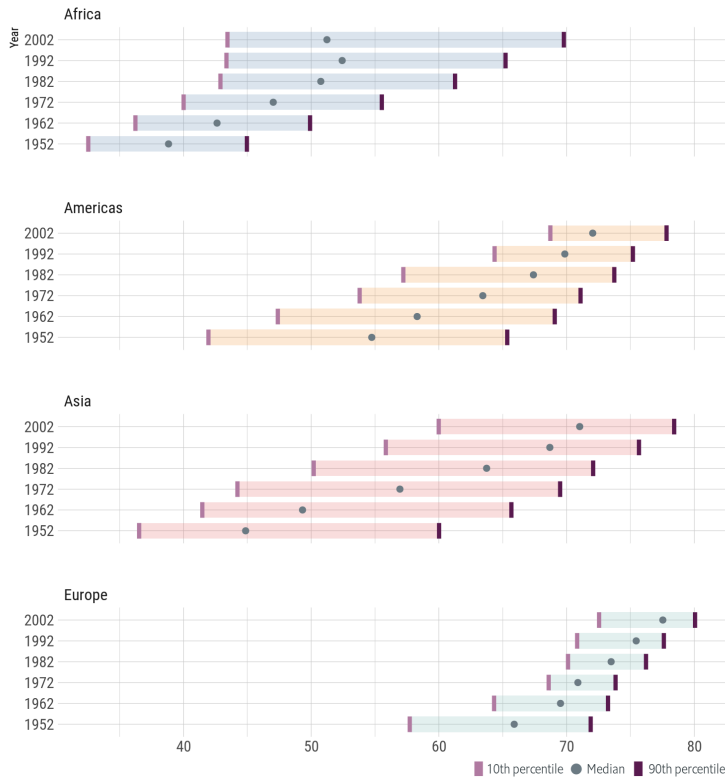
○ The Economist (29. 06. 2019)



Source: <https://www.economist.com/united-states/2019/06/29/will-transparent-pricing-make-americas-health-care-cheaper>

Inspiration

Life Expectancy



Example borrowed from @cmdline_tips

- Bob Rudis
- ggeconodist

Source: <https://cinc.rud.is/web/packages/ggeconodist/>

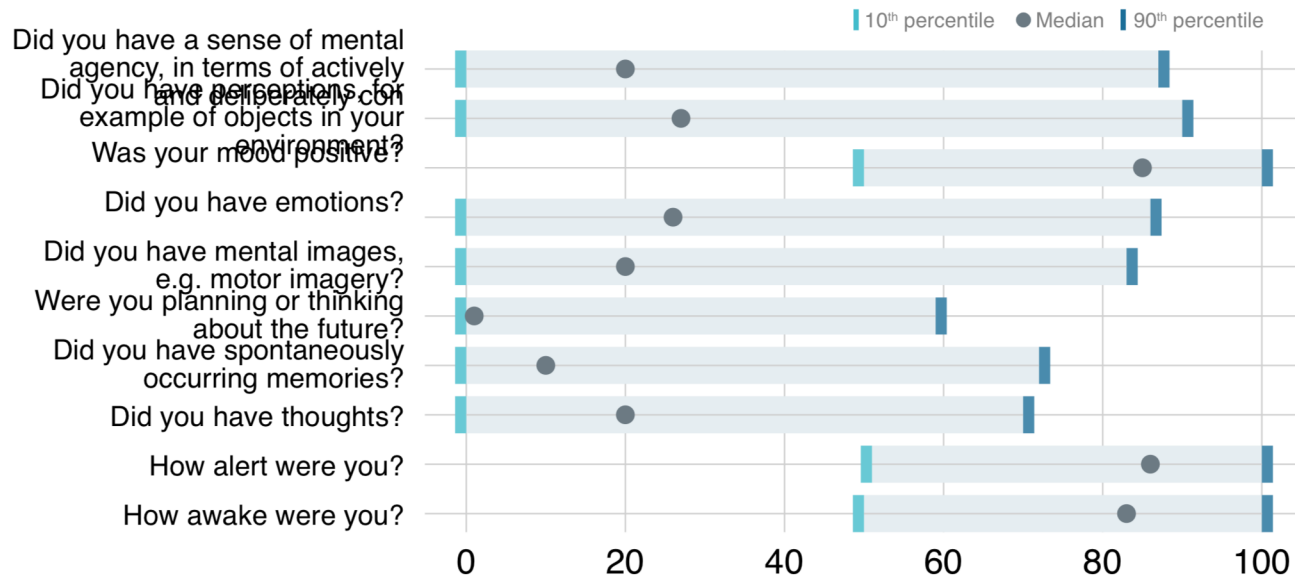
econodistplot **in action**

- Data:
 - Online questionnaire ("MPE-92M")
 - Phenomenology of conscious states during meditation
 - 92 items, VAS, 0-100
 - N=1403

econodistplot in action

MPE-92M

The MPE project, N=1403

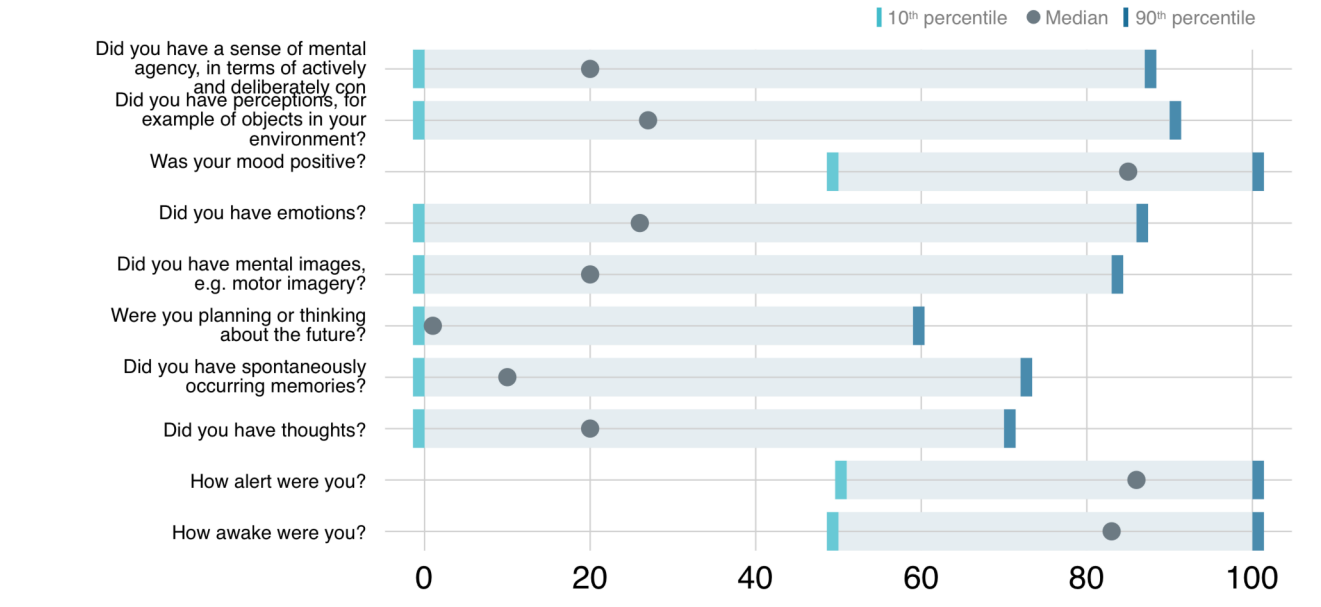


```
econodistplot mpe0* mpe34
```

econodistplot in action

MPE-92M

The MPE project, N=1403

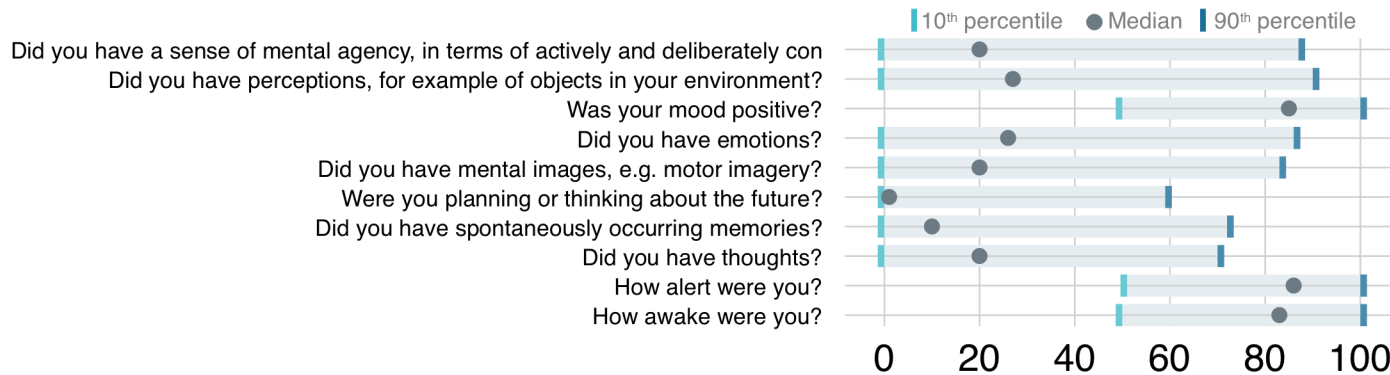


```
econodistplot mpe0* mpe34, ylabs(vsmall)
```

econodistplot in action

MPE-92M

The MPE project, N=1403

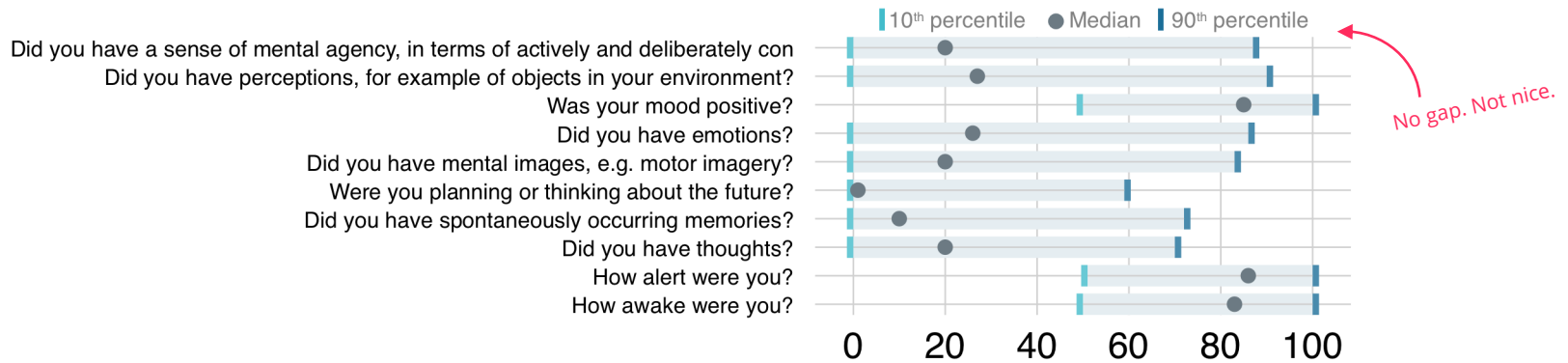


```
econodistplot mpe0* mpe34, ylabs(vsmall) wrap(100)
```


econodistplot in action

MPE-92M

The MPE project, N=1403

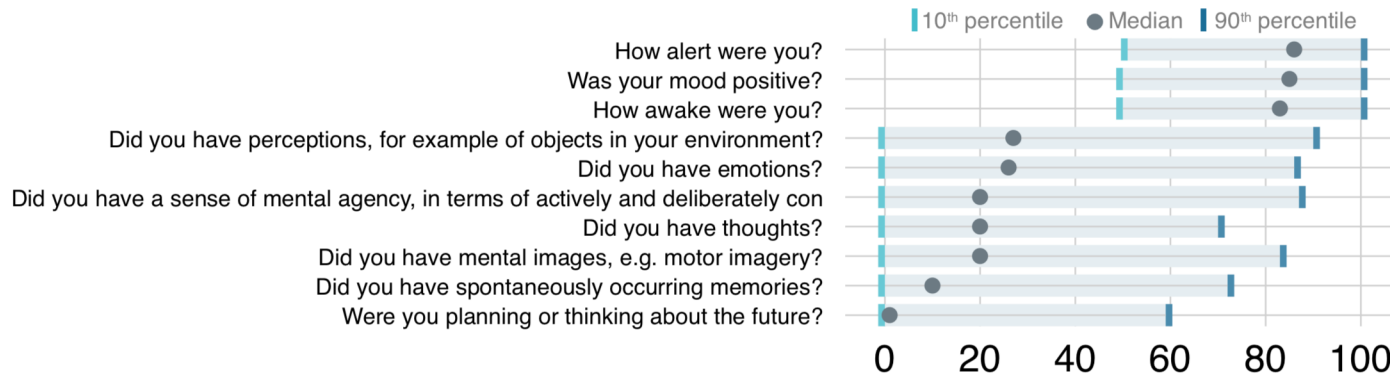


```
econodistplot mpe0* mpe34, ylabs(vsmall) wrap(100)
```

econodistplot in action

MPE-92M

The MPE project, N=1403

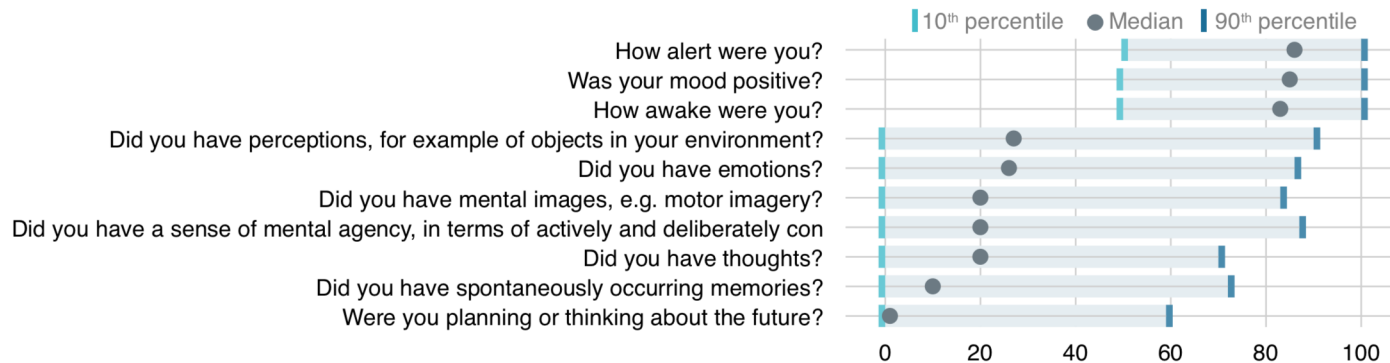


```
econodistplot mpe0* mpe34, ylabs(vsmall) wrap(100) s(+)
```

econodistplot in action

MPE-92M

The MPE project, N=1403

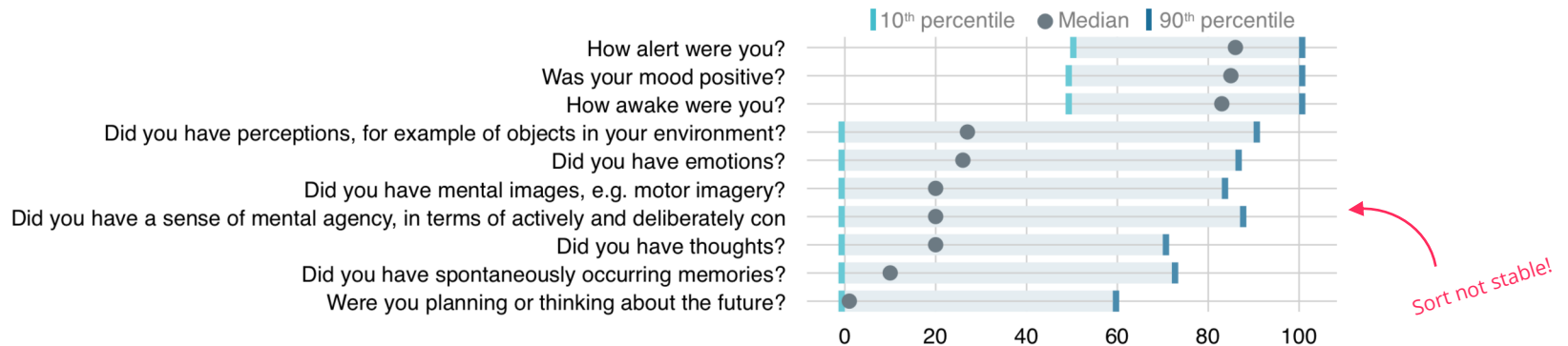


```
econodistplot mpe0* mpe34, ylabs(vsmall) wrap(100) s(+)  
xlab(vsmall)
```

econodistplot in action

MPE-92M

The MPE project, N=1403

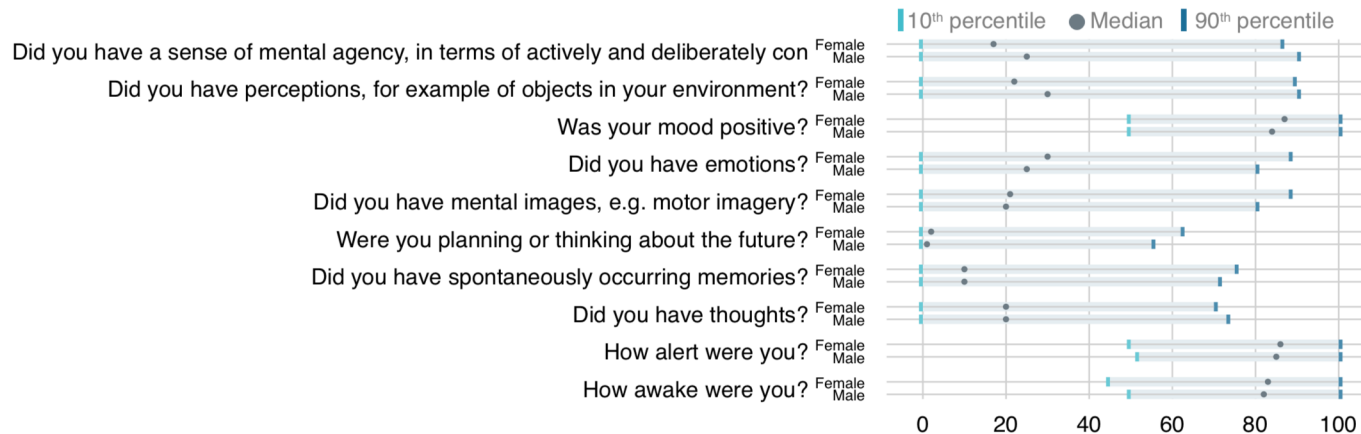


```
econodistplot mpe0* mpe34, ylabs(vsmall) wrap(100) s(+)  
xlab(vsmall)
```

econodistplot in action

MPE-92M

The MPE project, N=1403

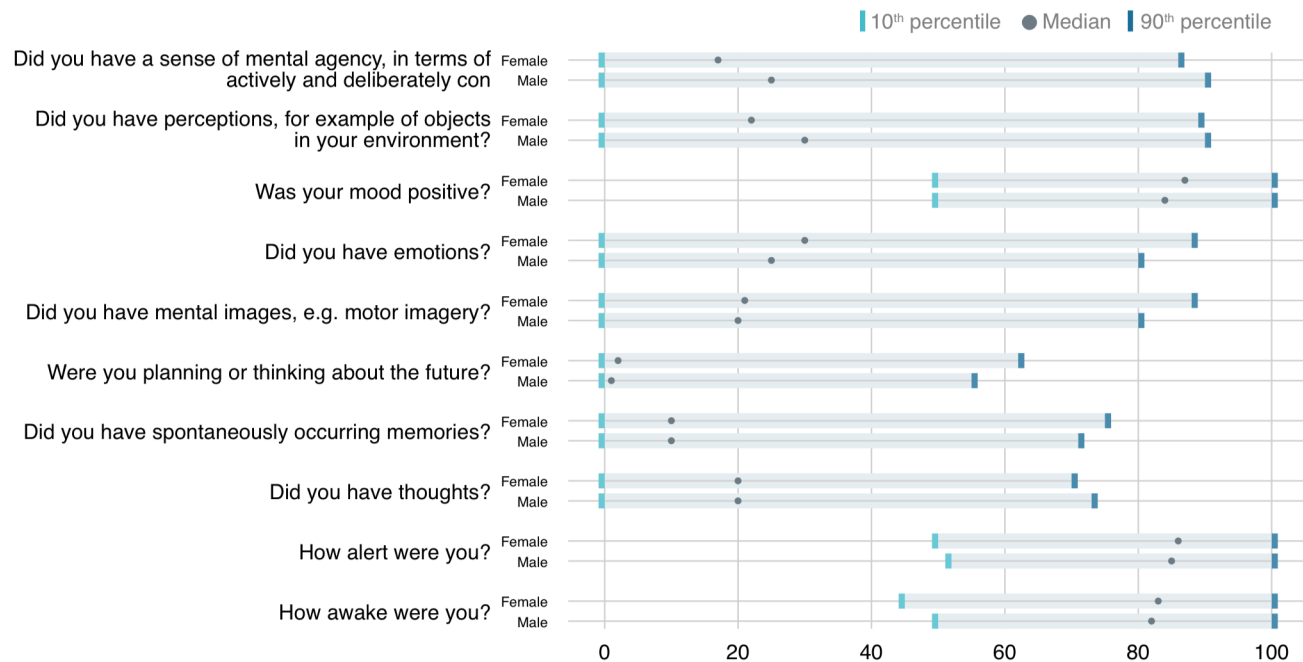


```
econodistplot mpe0* mpe34, ylabs(vsmall) wrap(100) s(+)  
xlab(vsmall) over(male)
```

econodistplot in action

MPE-92M

The MPE project, N=1403

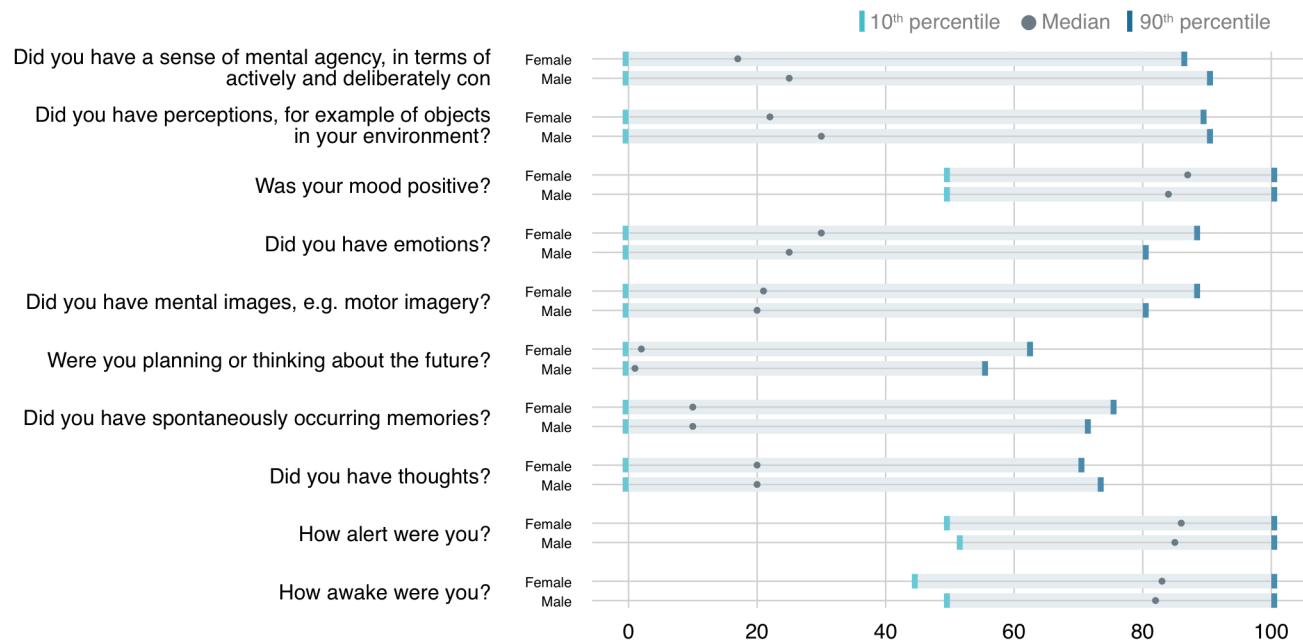


```
econodistplot mpe0* mpe34, ylabs(vsmall) wrap(50) s(+)  
xlab(vsmall) over(male)
```

econodistplot in action

MPE-92M

The MPE project, N=1403



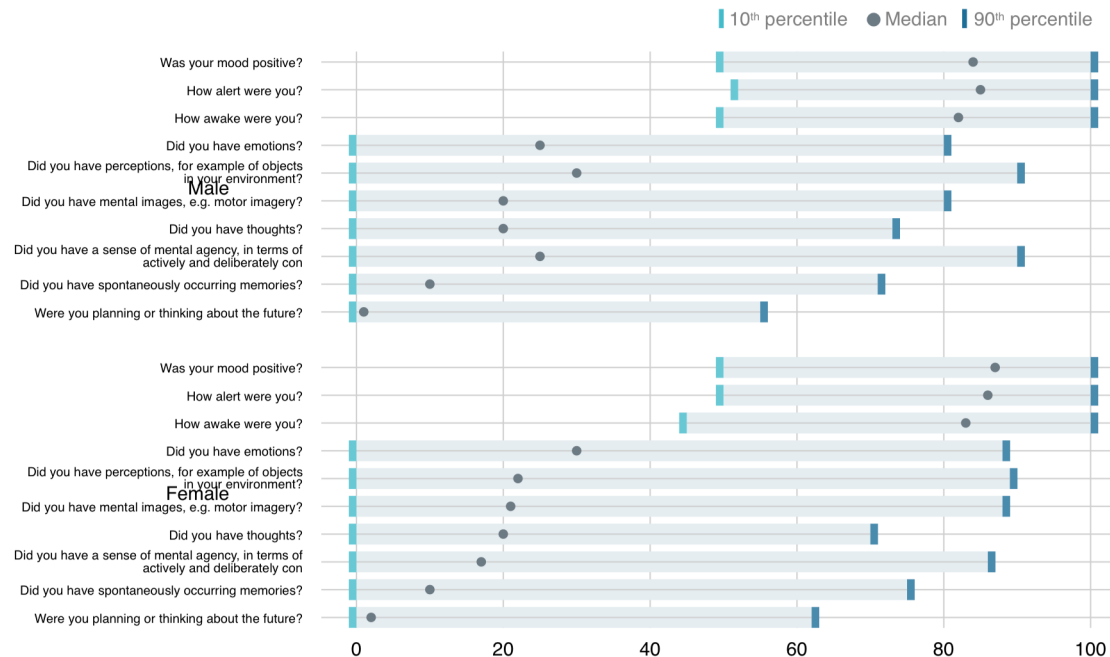
```
econodistplot mpe0* mpe34, ylabs(vsmall) wrap(50) s(+)  
xlabs(vsmall) over(male) labgap(10)
```

Econodistplot
outputs values of
graph parameters

econodistplot in action

MPE-92M

The MPE project, N=1403



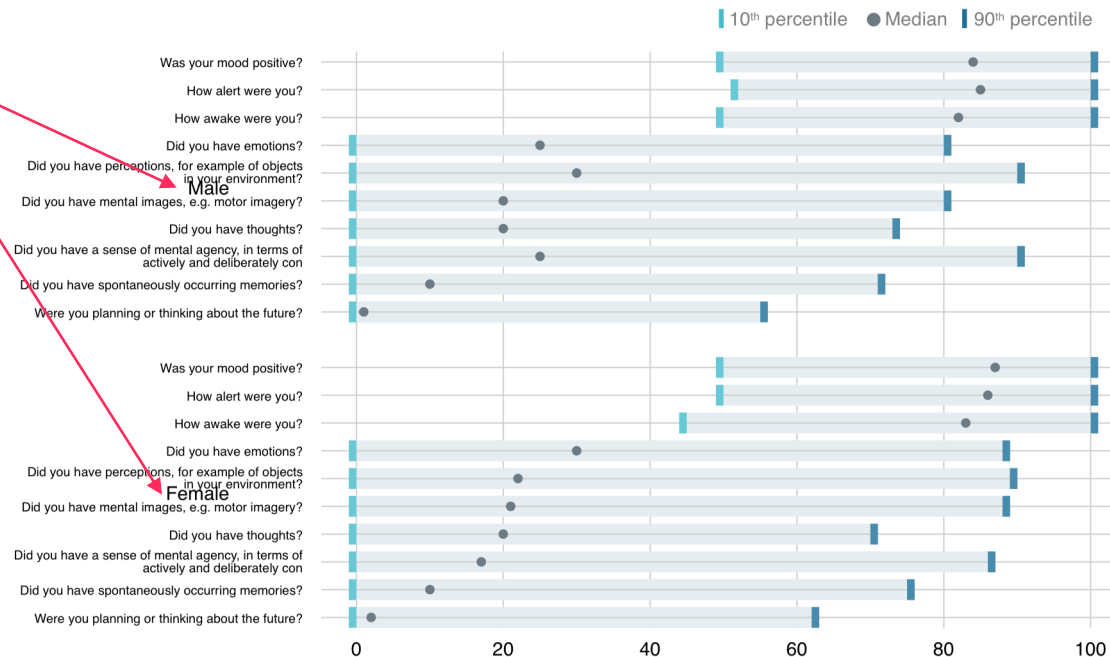
```
econodistplot mpe0* mpe34, ylabs(vsmall) wrap(50) s(+)  
xlab(vsmall) over(male) labgap(10) recycle
```


econodistplot in action

MPE-92M

The MPE project, N=1403

Come out of there!

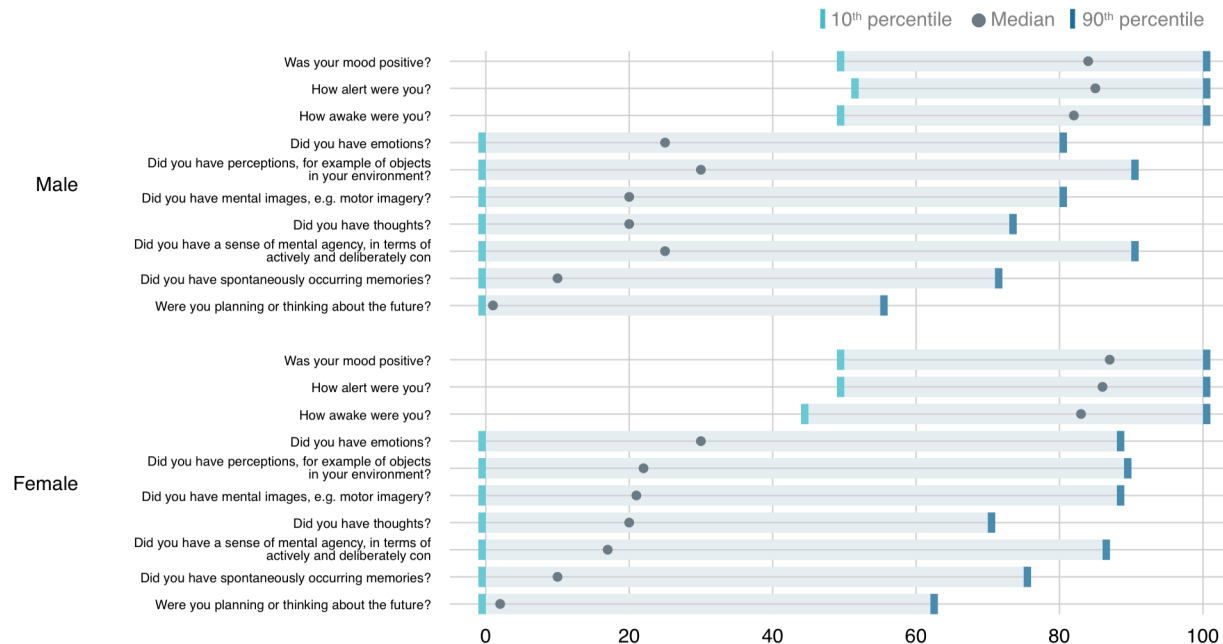


```
econodistplot mpe0* mpe34, ylabs(vsmall) wrap(50) s(+)  
xlab(vsmall) over(male) labgap(10) recycle
```

econodistplot in action

MPE-92M

The MPE project, N=1403

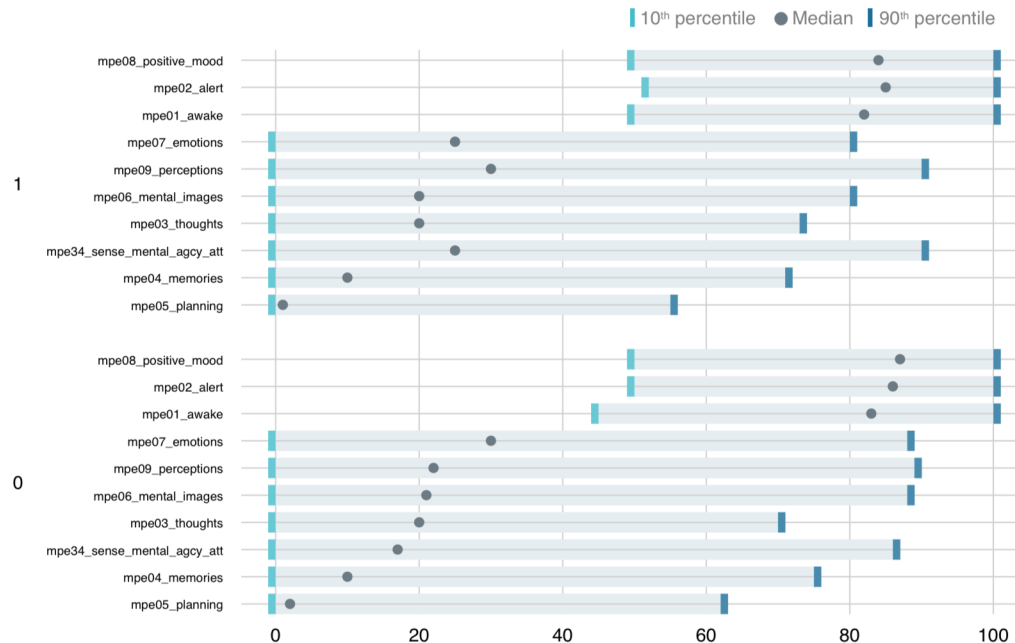


```
econodistplot mpe0* mpe34, ylabs(vsmall) wrap(50) s(+)  
xlab(vsmall) over(male) labgap() recycle
```

econodistplot in action

MPE-92M

The MPE project, N=1403

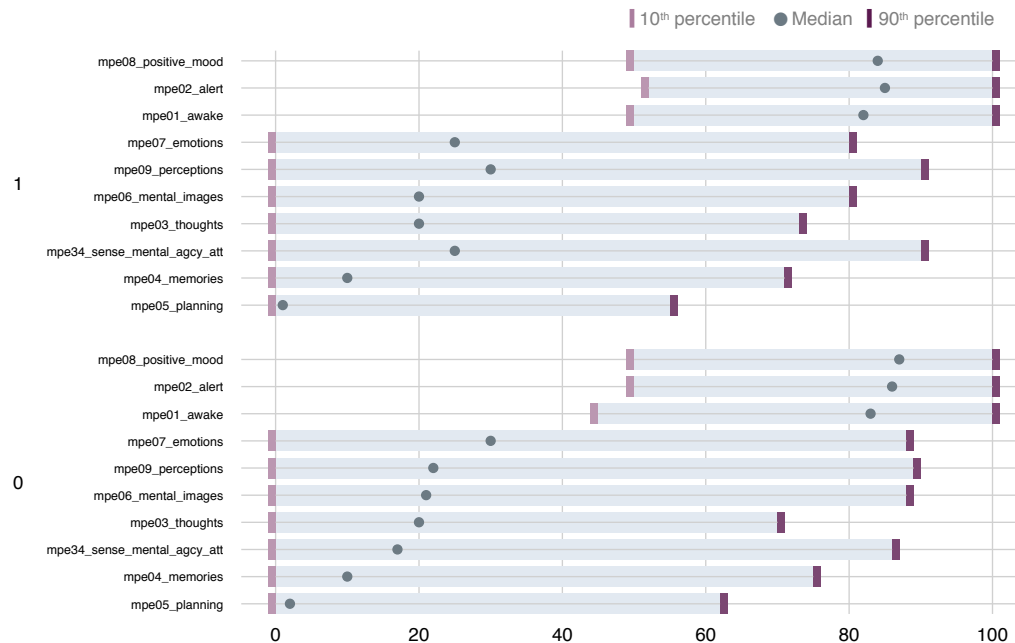


```
econodistplot mpe0* mpe34, ylabs(vsmall) wrap(50) s(+)  
xlab(vsmall) over(male) labgap() recycle novl
```

econodistplot in action

MPE-92M

The MPE project, N=1403

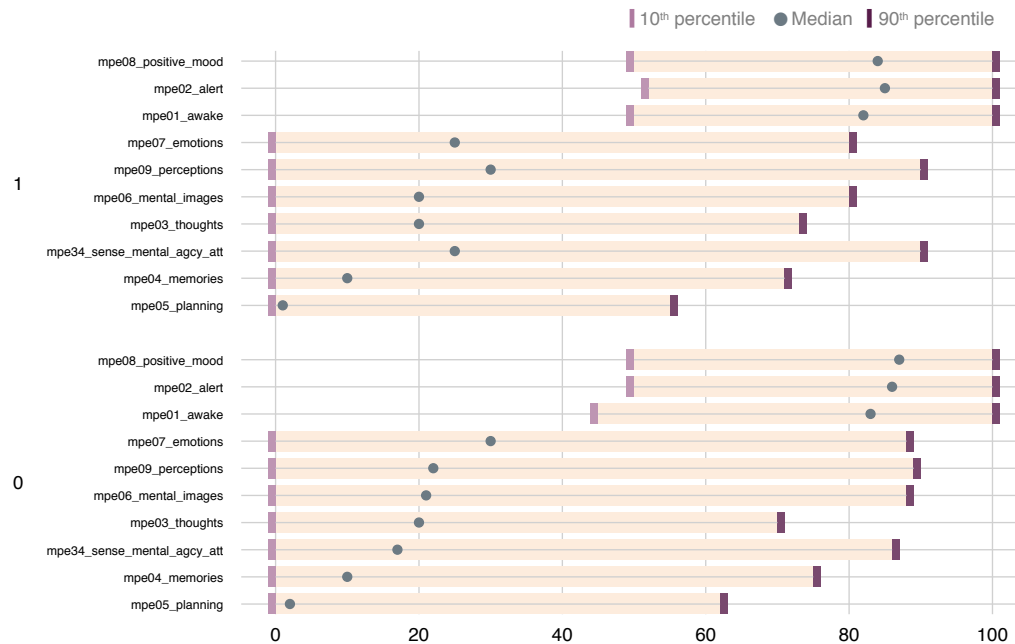


```
econodistplot mpe0* mpe34, ylabs(vsmall) wrap(50) s(+)  
xlab(vsmall) over(male) labgap() recycle novl pal(rudis1)
```

econodistplot in action

MPE-92M

The MPE project, N=1403

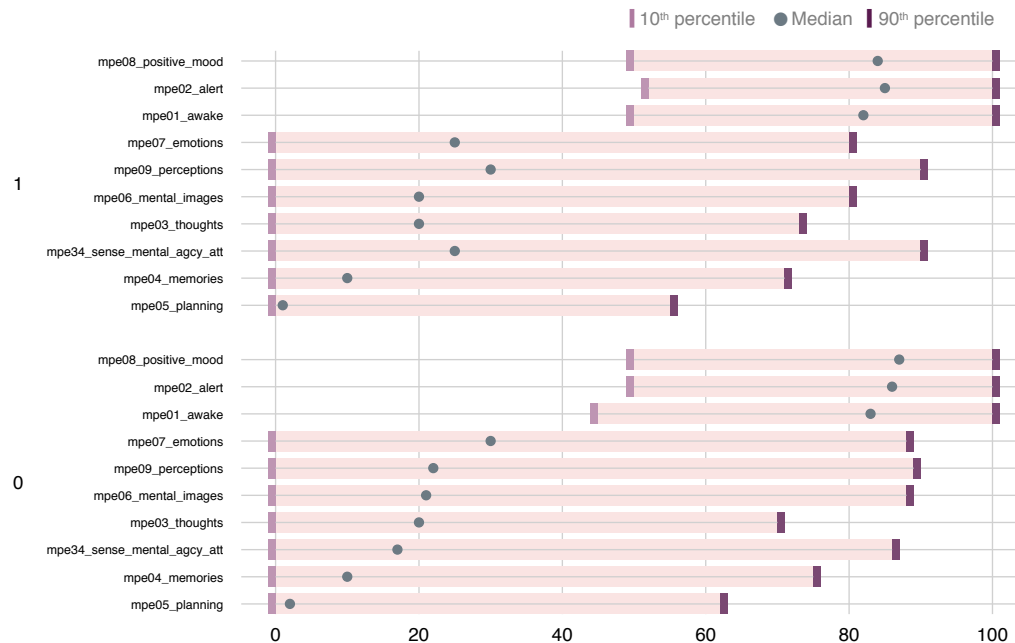


```
econodistplot mpe0* mpe34, ylabs(vsmall) wrap(50) s(+)  
xlab(vsmall) over(male) labgap() recycle novl pal(rudis2)
```

econodistplot in action

MPE-92M

The MPE project, N=1403

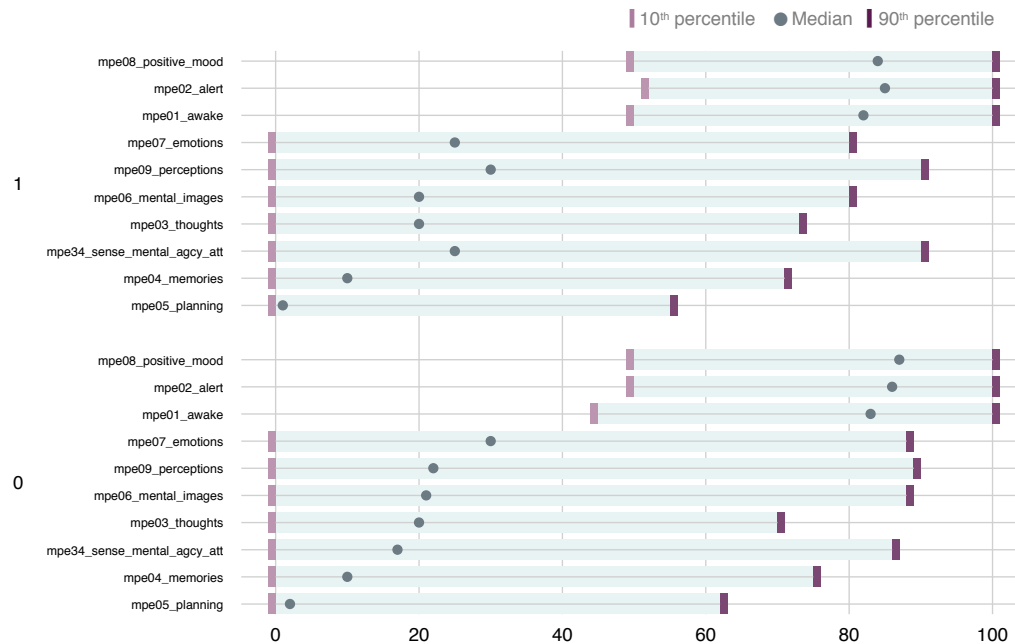


```
econodistplot mpe0* mpe34, ylabs(vsmall) wrap(50) s(+)  
xlabs(vsmall) over(male) labgap() recycle novl pal(rudis3)
```

econodistplot in action

MPE-92M

The MPE project, N=1403

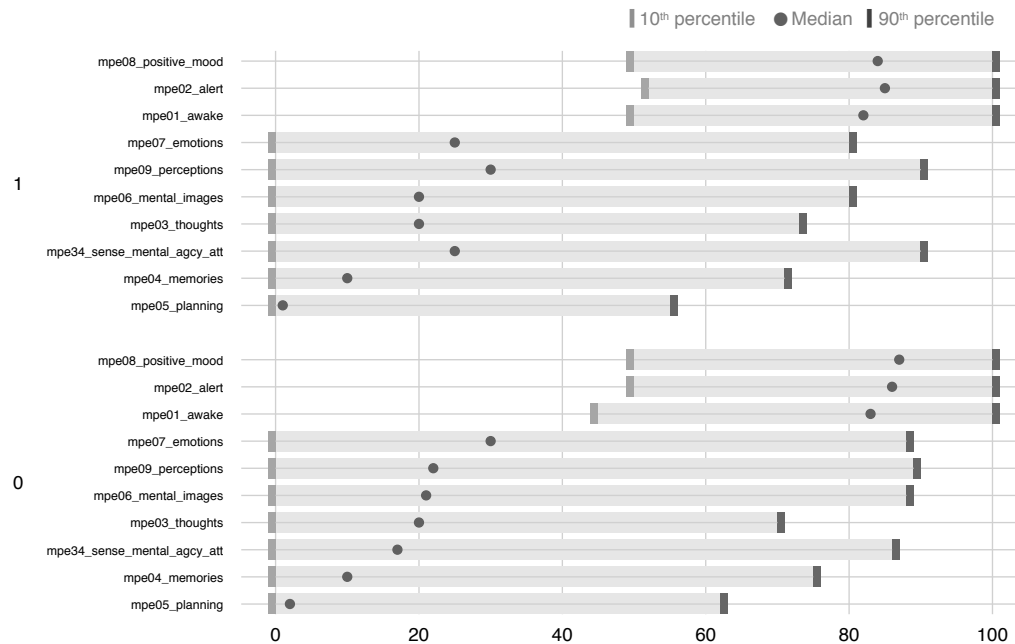


```
econodistplot mpe0* mpe34, ylabs(vsmall) wrap(50) s(+)  
xlab(vsmall) over(male) labgap() recycle novl pal(rudis4)
```

econodistplot in action

MPE-92M

The MPE project, N=1403



```
econodistplot mpe0* mpe34, ylabs(vsmall) wrap(50) s(+)  
xlab(vsmall) over(male) labgap() recycle novl pal(bw)
```


More syntax options

- Arbitrary percentiles
- Individual colors
- Title / subtitle / xtitle
- xlab
- Aspect ratio
- Orientation (landscape / portrait)
- ysize / xsize
- Symbol size multiplier

Issues

- **Work in progress** (v.14)
- No package yet
- Fighting against Stata's adaptive scaling.
Stupid?
- Stata 16 messes up some things

Thanks!

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