Category I
"in grammar"

New Geoms

`ggforce` – arcs, bezier curves, splines, voronai, hulls, delaunay, and others

`ggalt` – splines, encircling points, dumbbell and lollipop charts, and others

`ggsignif` – significance brackets with p values

ggforce

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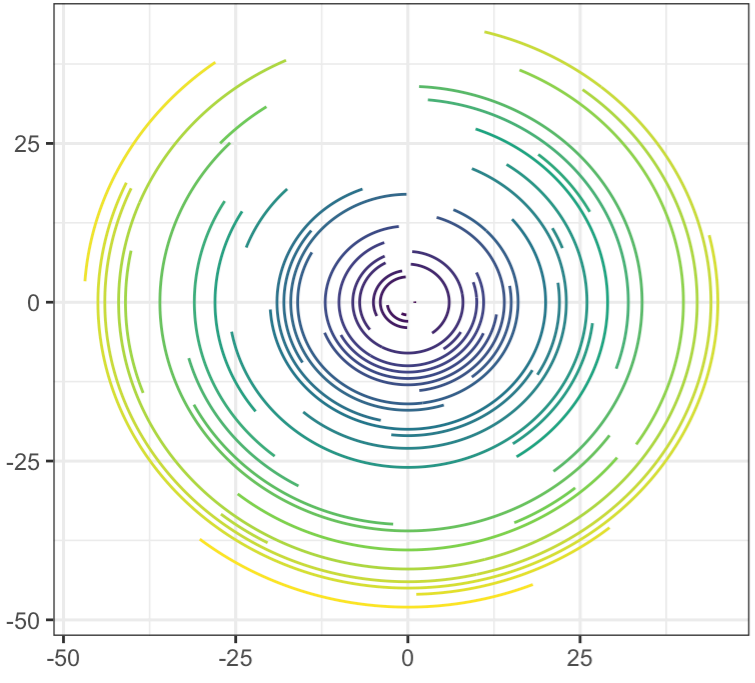
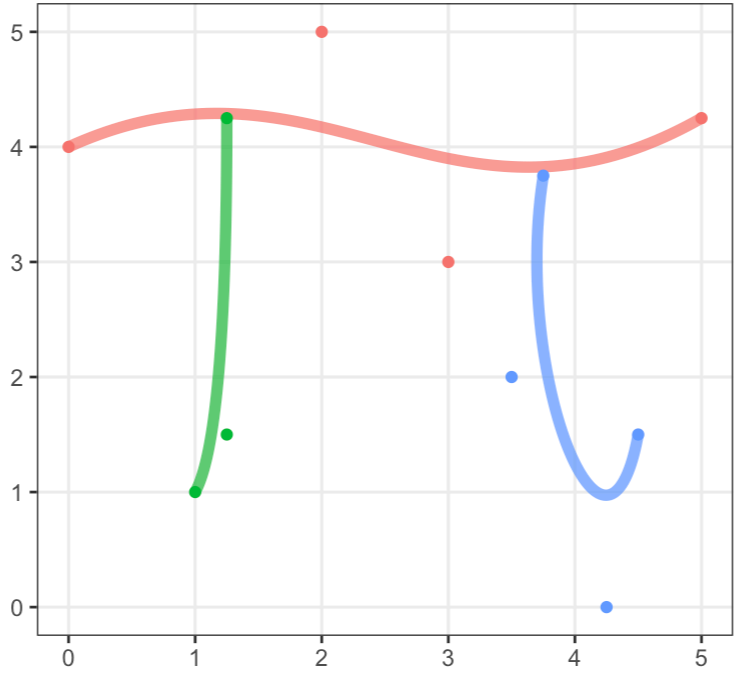
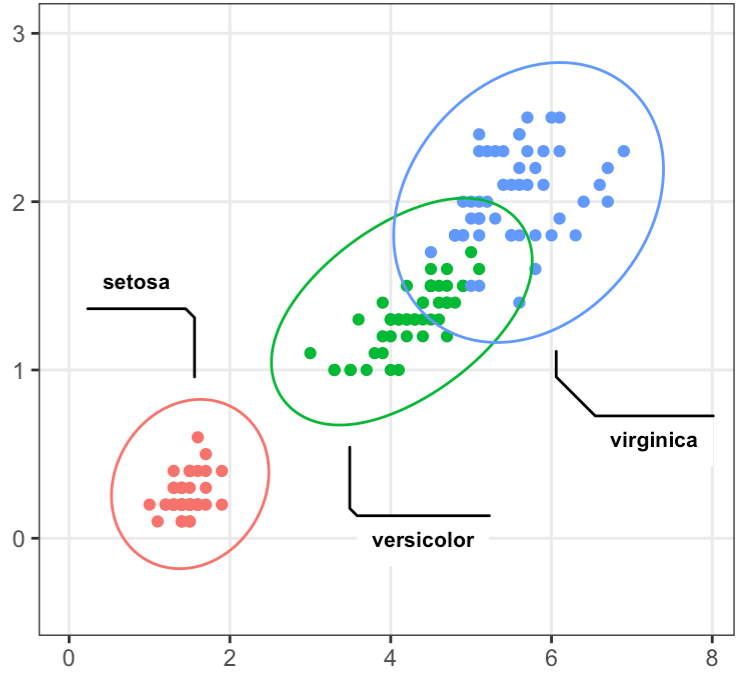
geom_arc()



geom_bezier()



geom_mark_ellipse()



ggalt

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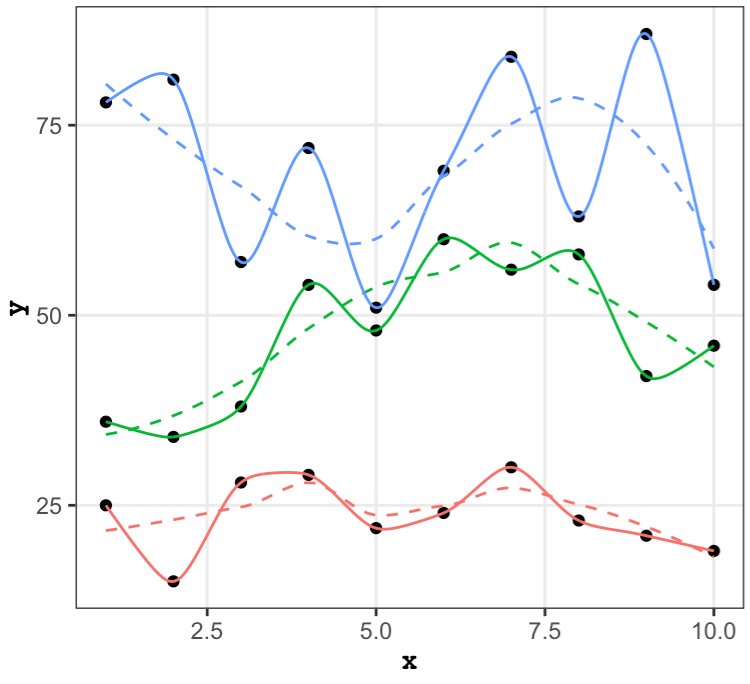
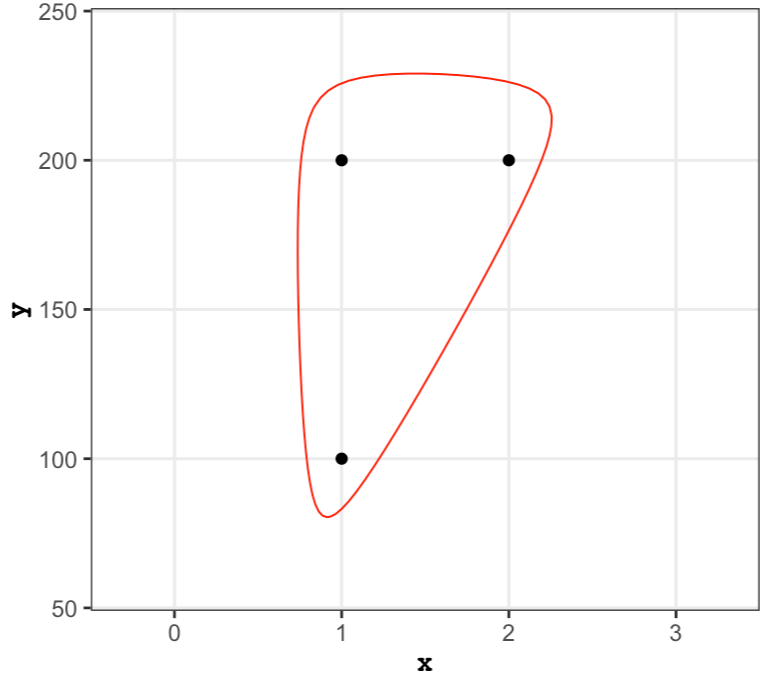
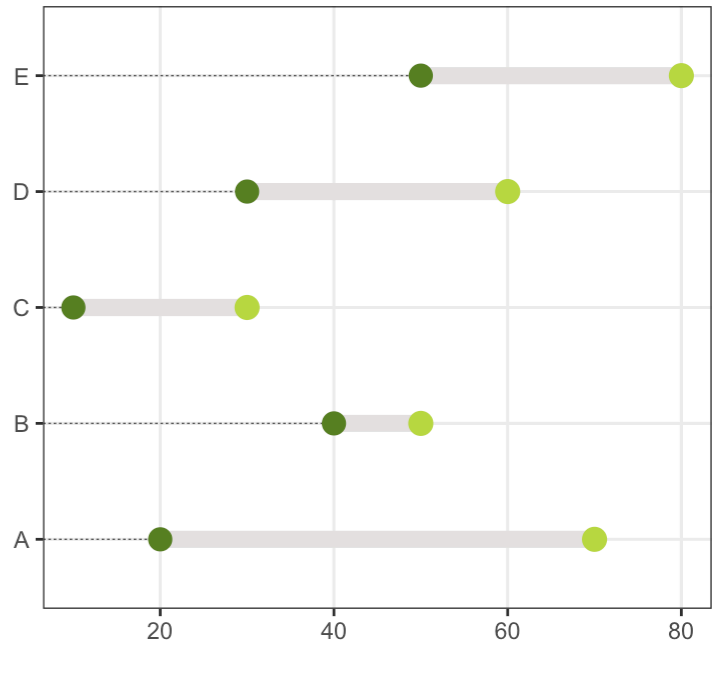
geom_xspline()



geom_encircle()



geom_dumbbell()



Code source: https://github.com/hrbrmstr/ggalt

ggsignif

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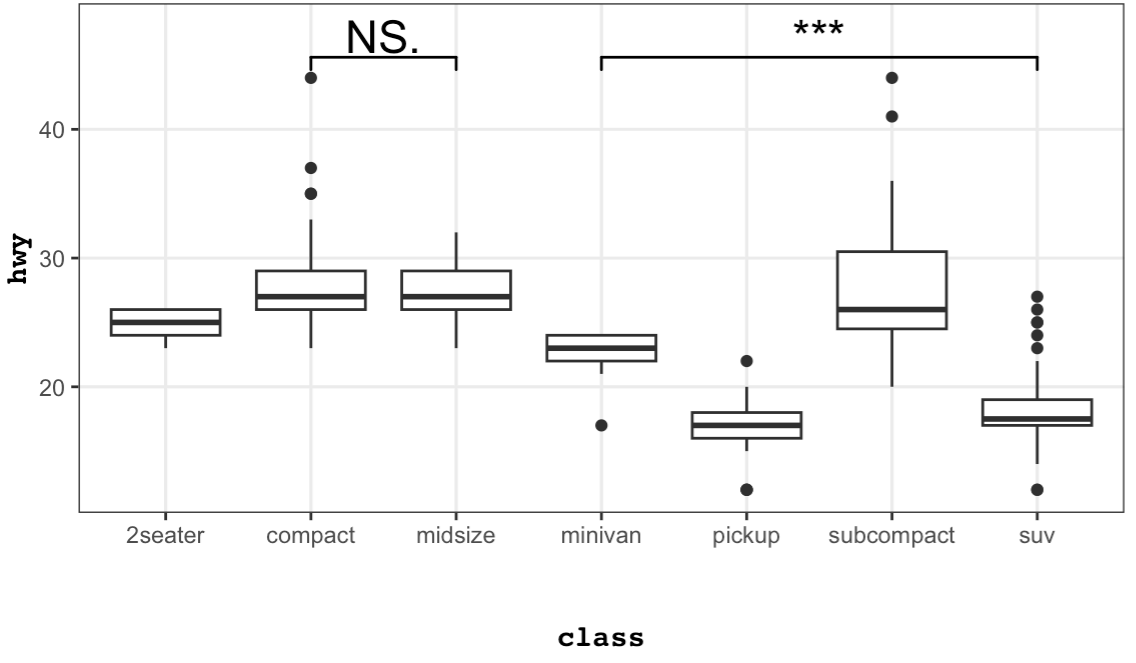
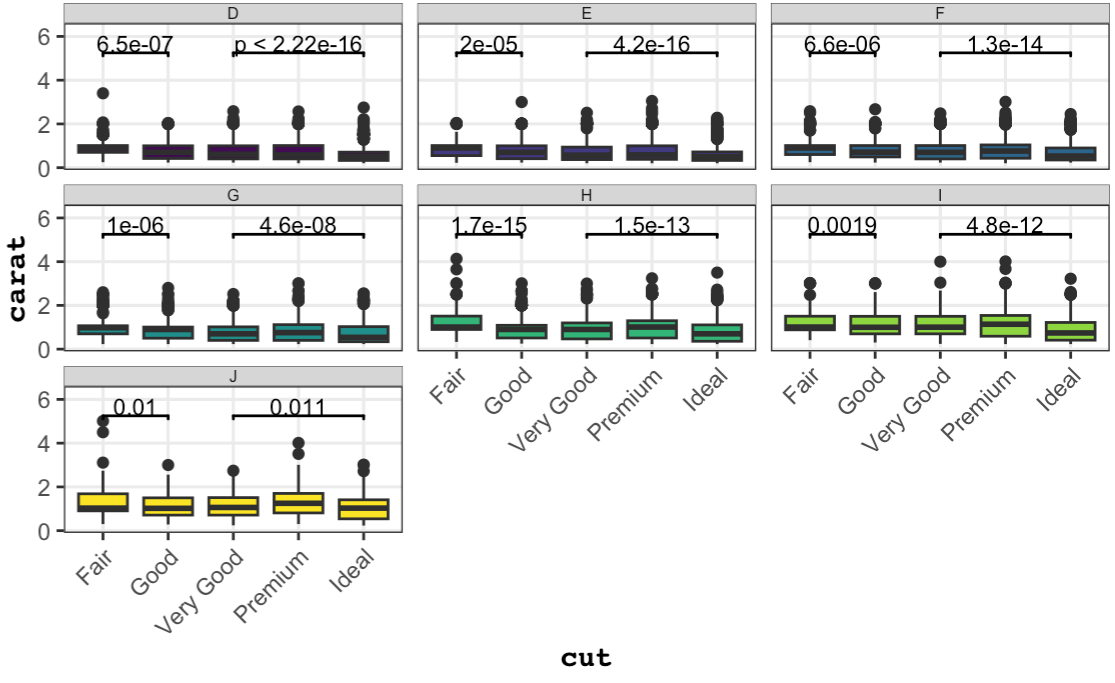
geom_signif()



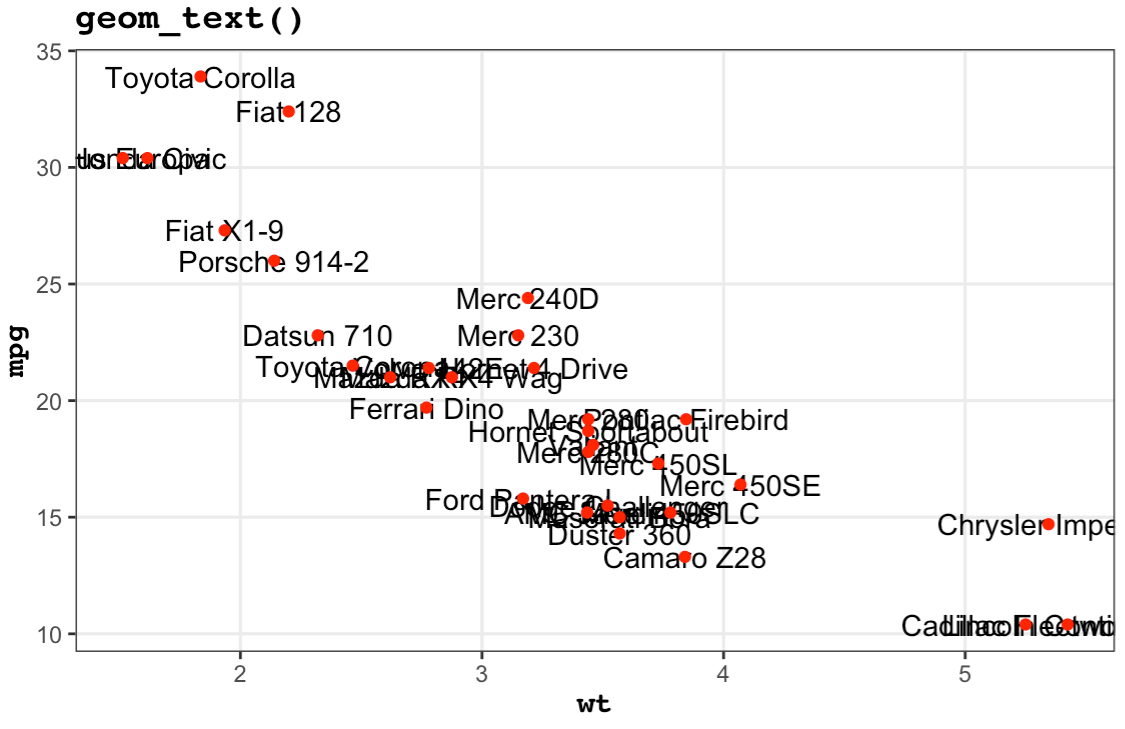
compatible with facets

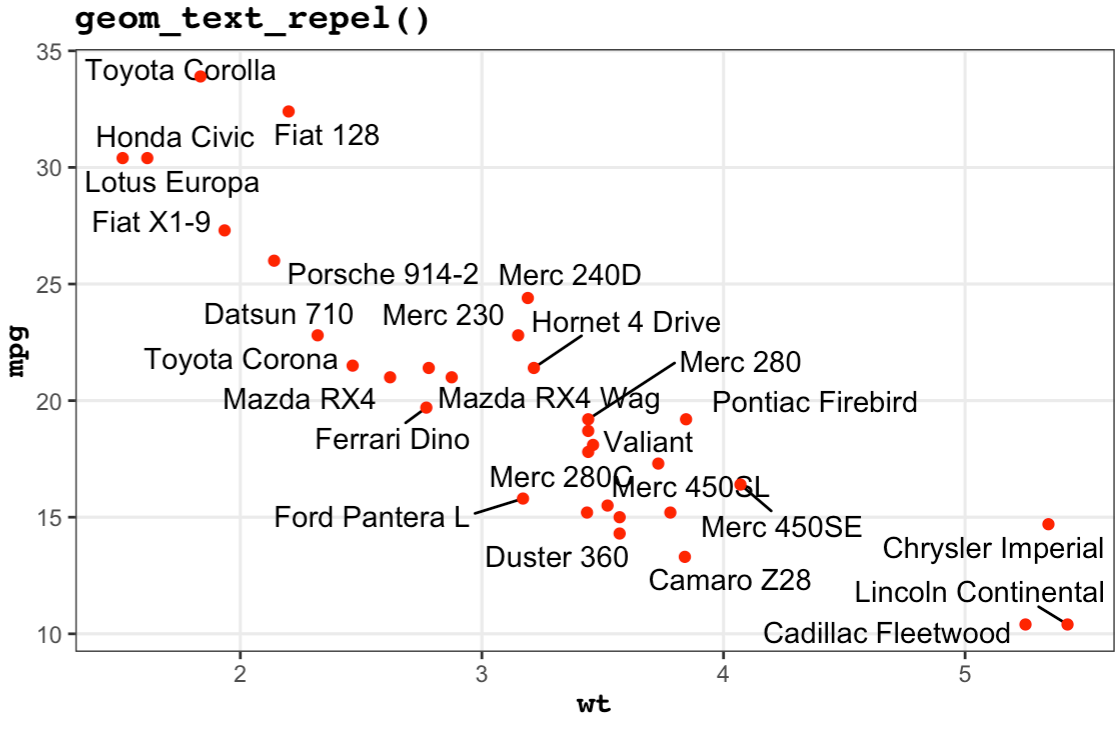


Code source: https://github.com/const-ae/ggsignif

ggrepel

</>





Code source: https://ggrepel.slowkow.com/

geomtextpath

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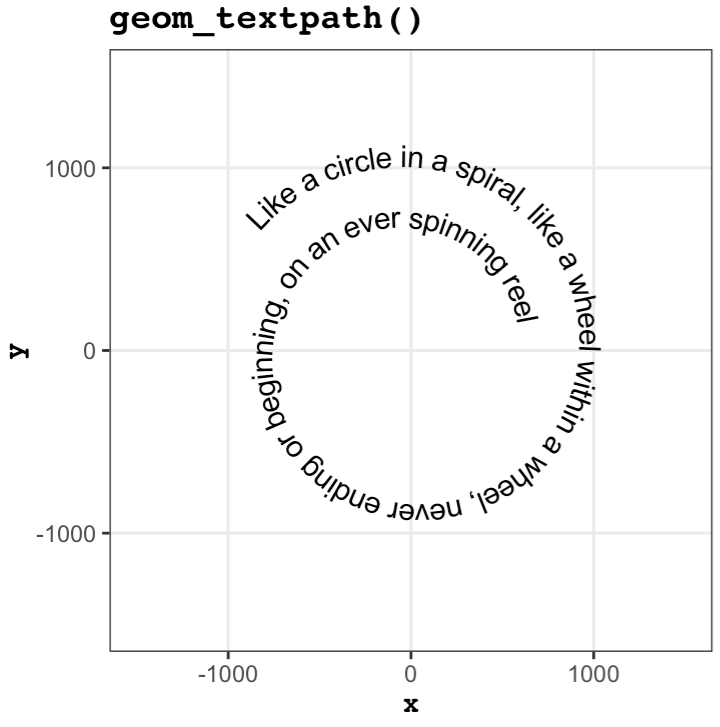

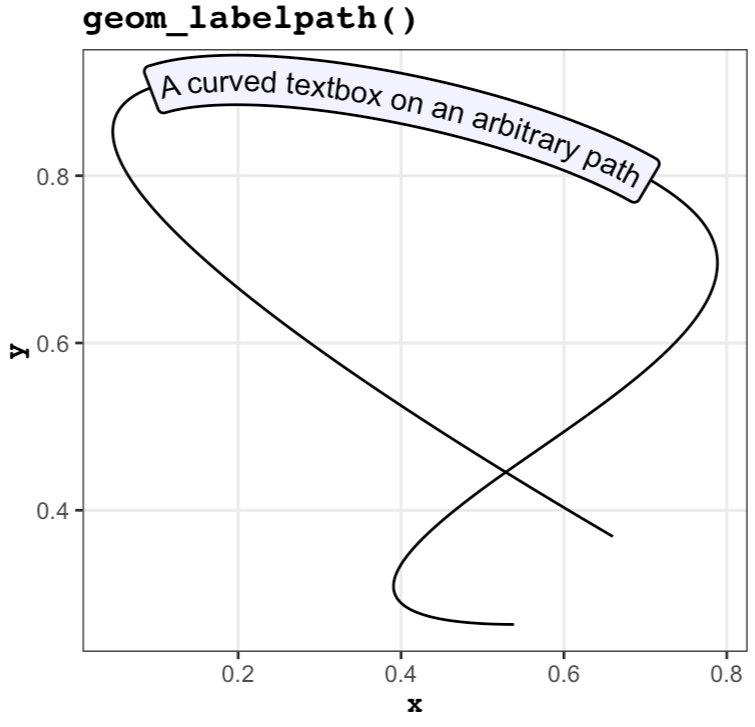

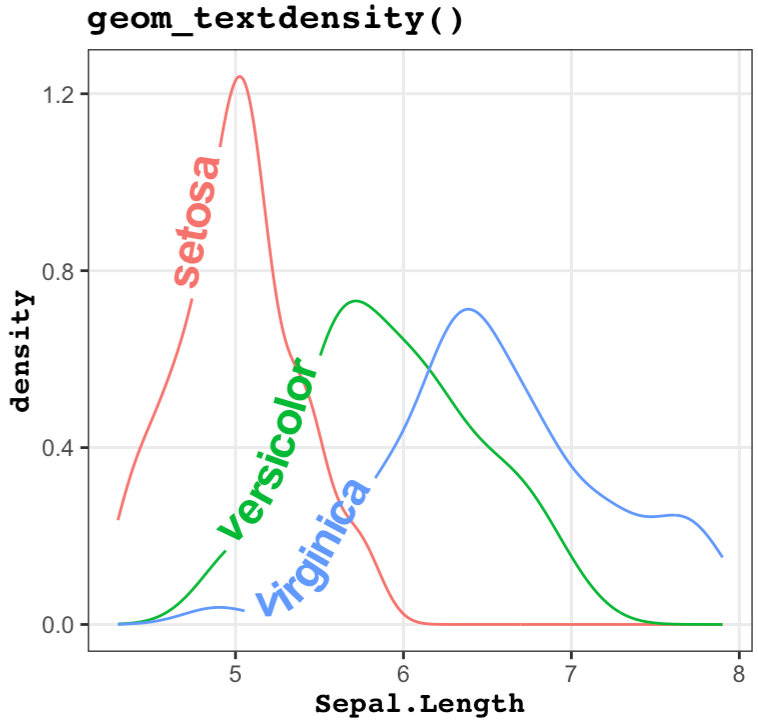

Code source: https://allancameron.github.io/geomtextpath/

New Facets

`geofacet` – facet plot geographically while preserving some of the original geographical orientation

`ggh4x` – nested facets

`ggside` – implemented as geoms but really adds facets

geofacet

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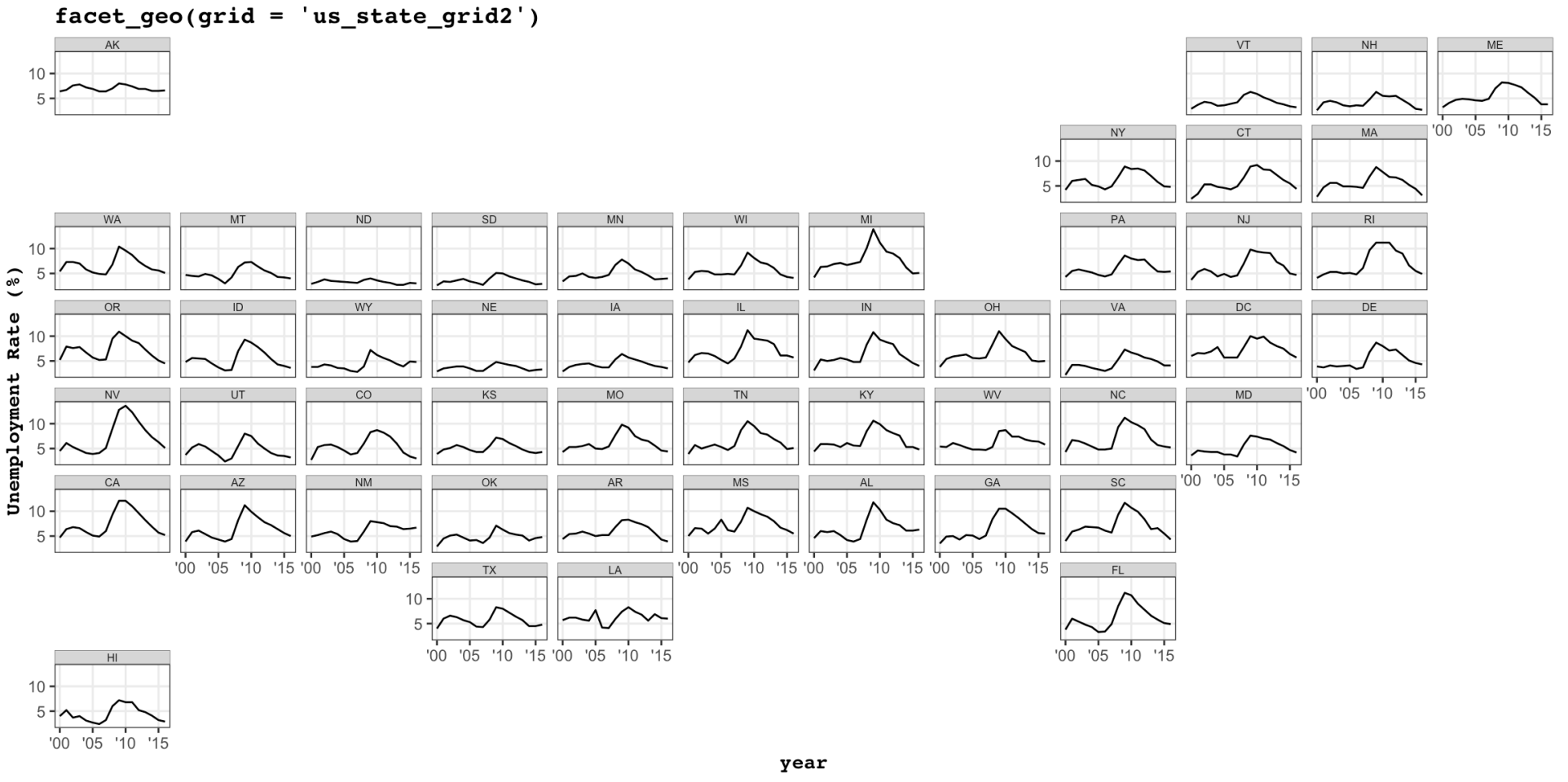

Code source: https://github.com/hafen/geofacet/

ggh4x

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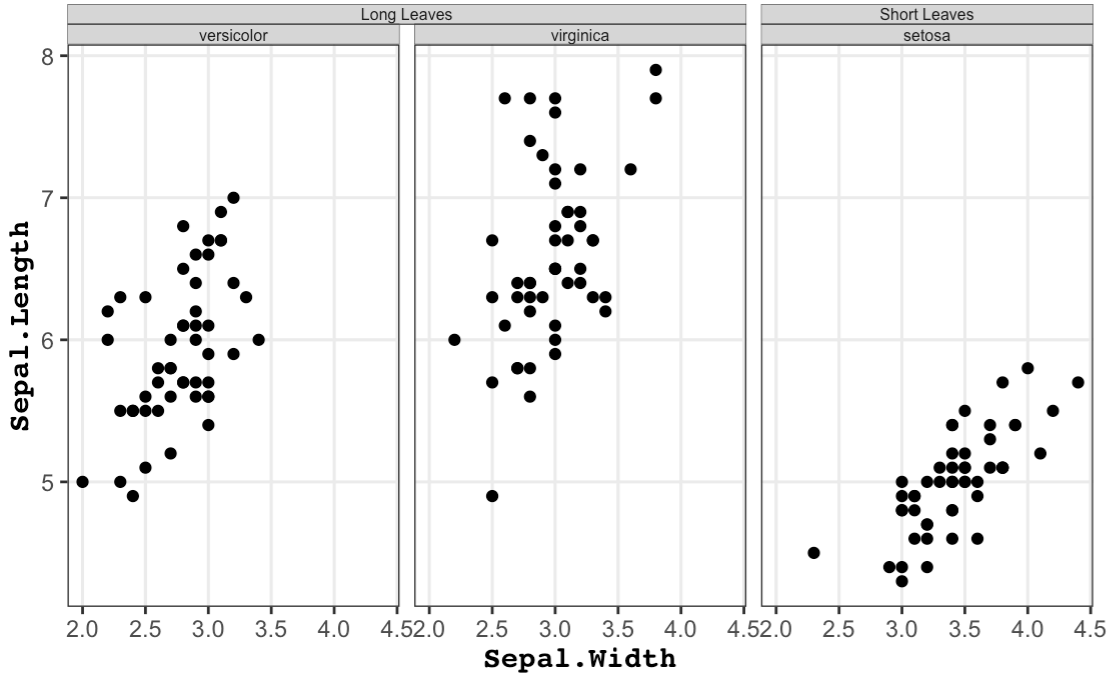
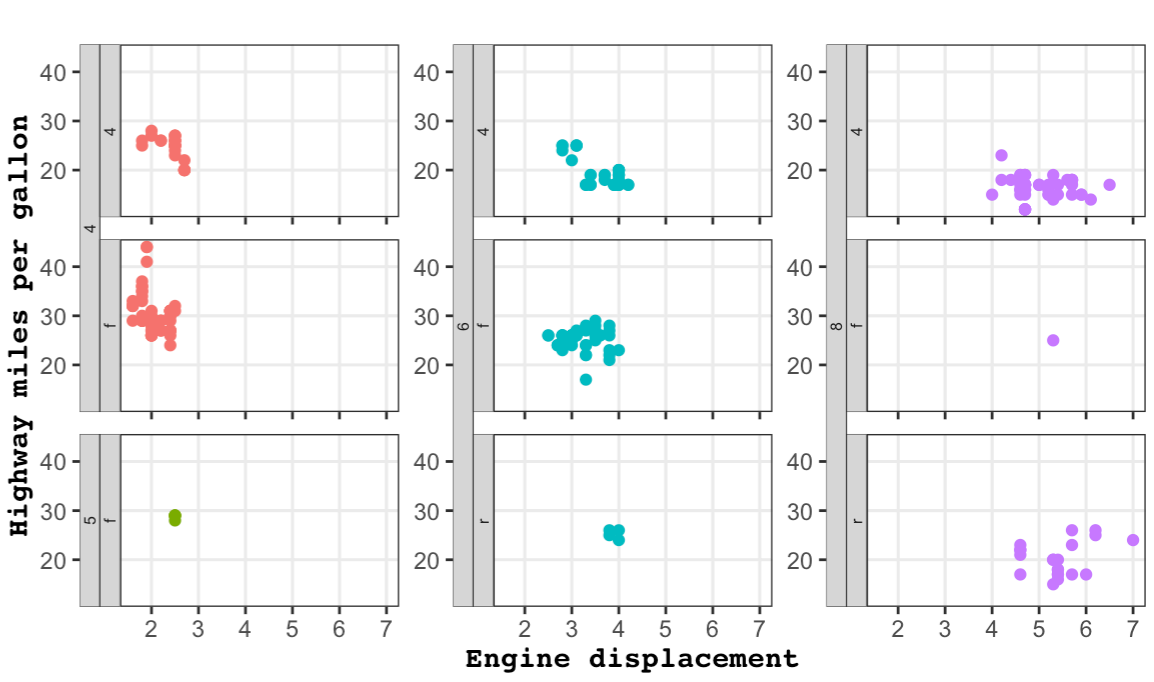
facet_nested()



facet_nested_wrap()



Code source: https://teunbrand.github.io/ggh4x/articles/Facets.html

ggside

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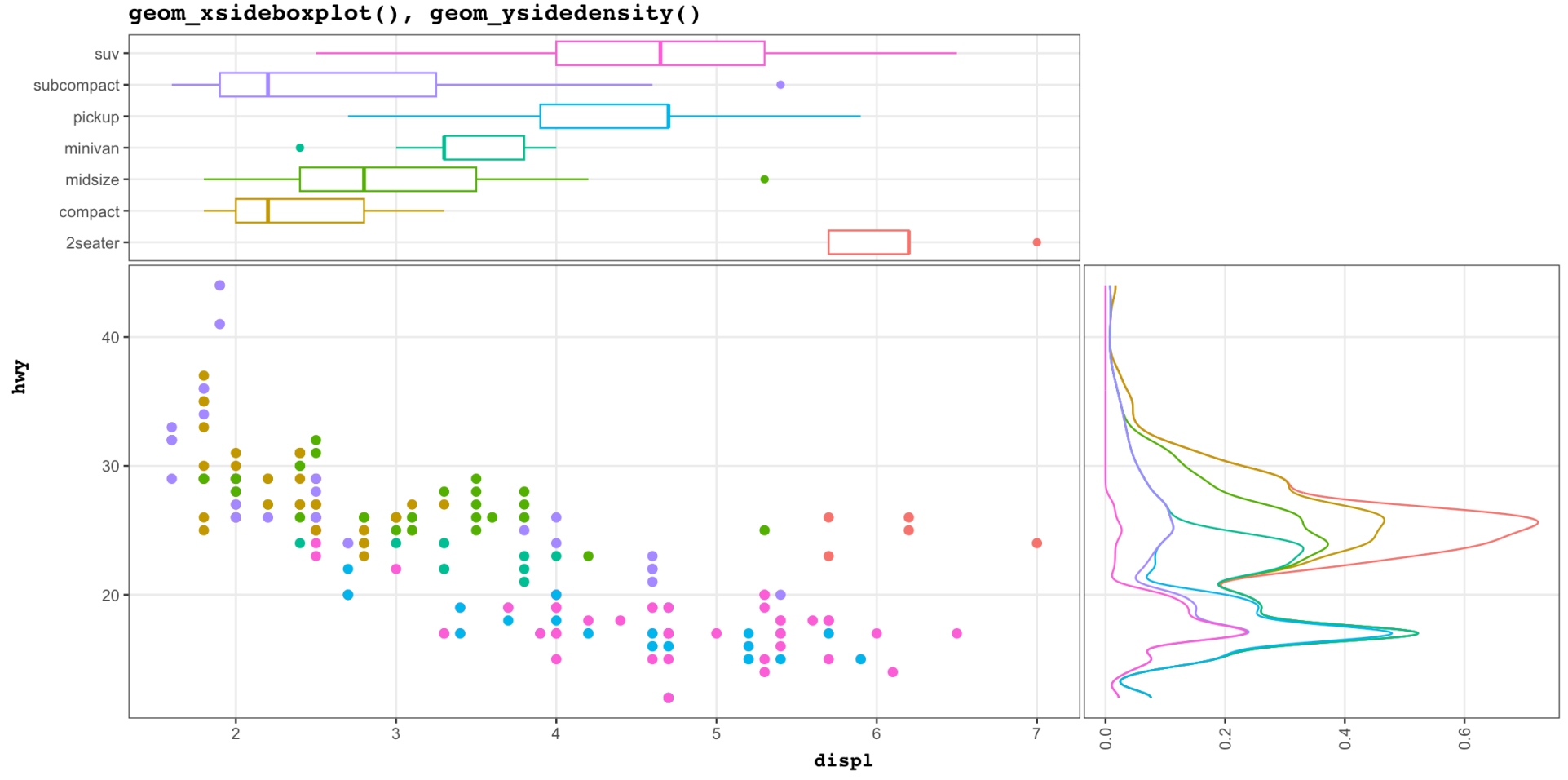

Code source: https://github.com/jtlandis/ggside

New Scales

`ggsci` – color palettes inspired by colors used in scientific journals, data visualization libraries, science fiction movies, and TV shows

`ggnewscale` – use multiple fill/color scales in one plot

`ggbreak` – set breakpoints for truncating the plot

ggsci

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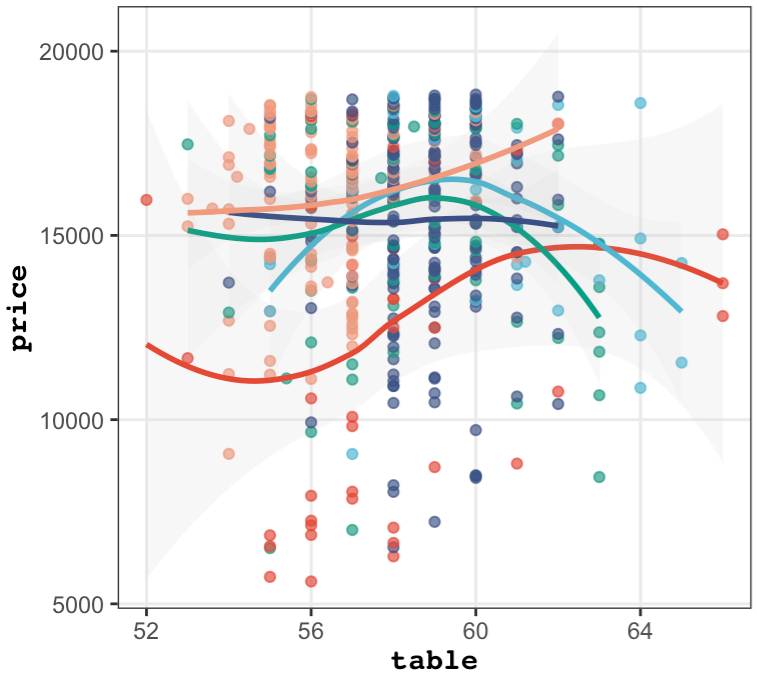
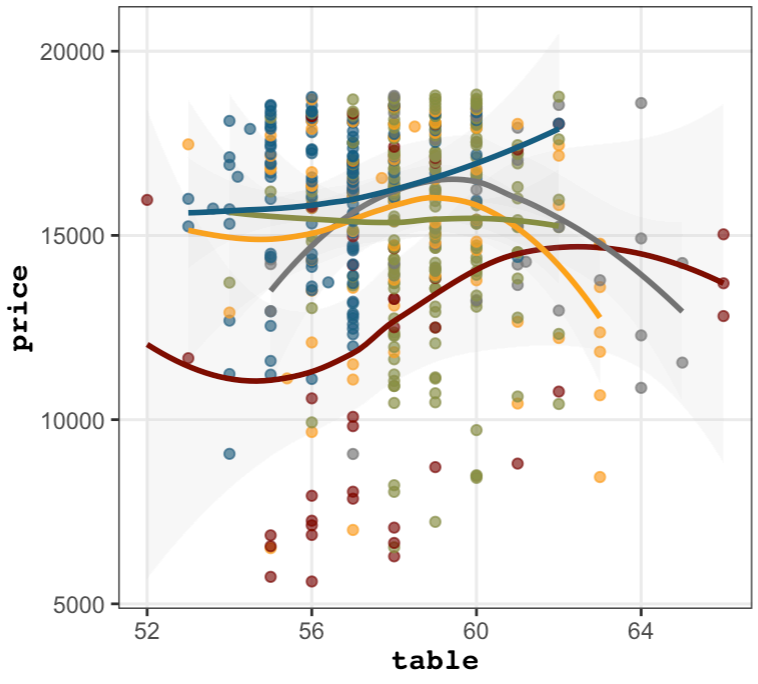
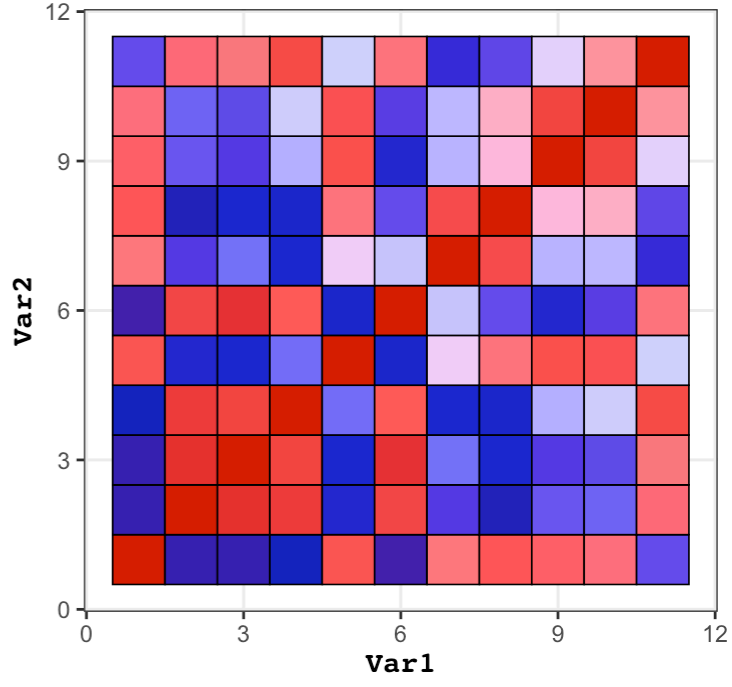
scale_color_npg()



scale_color_uchicago()



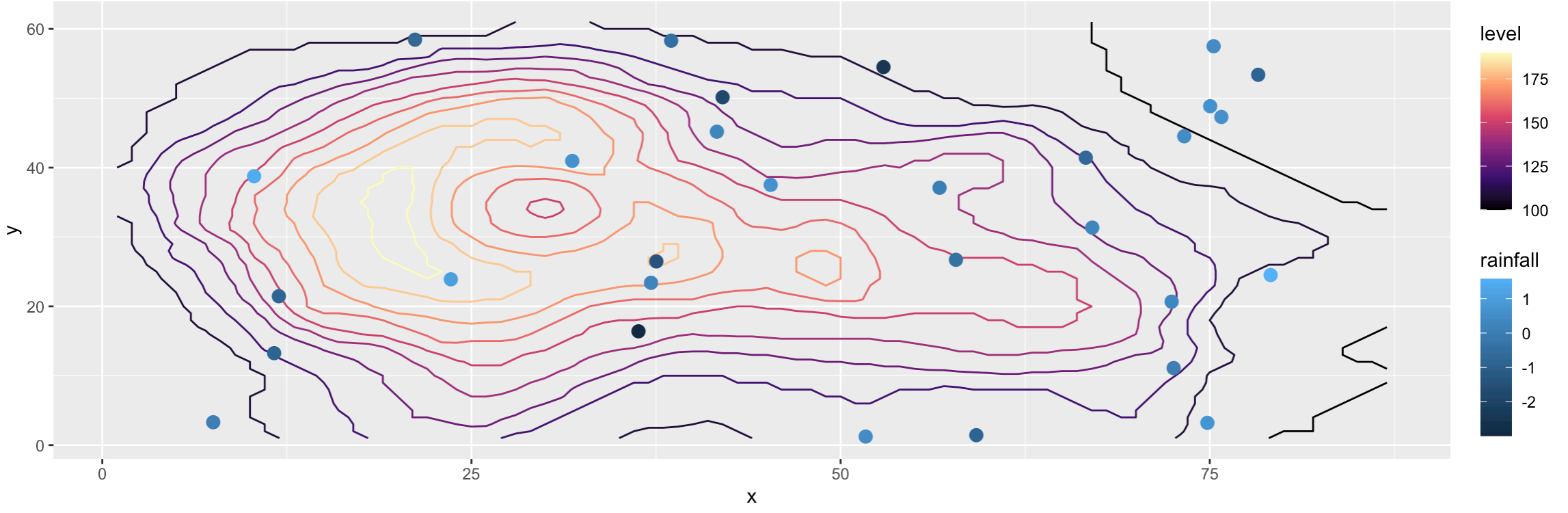
scale_fill_gsea()



Code source: https://nanx.me/ggsci/articles/ggsci.html

ggnewscale

</>



Code source: https://github.com/eliocamp/ggnewscale/

New Themes

`hrbrthemes` – typography-centric themes and theme components for ggplot2

`tvthemes` – various ggplot2 themes and color/fill palettes based on popular TV shows

hrbrthemes

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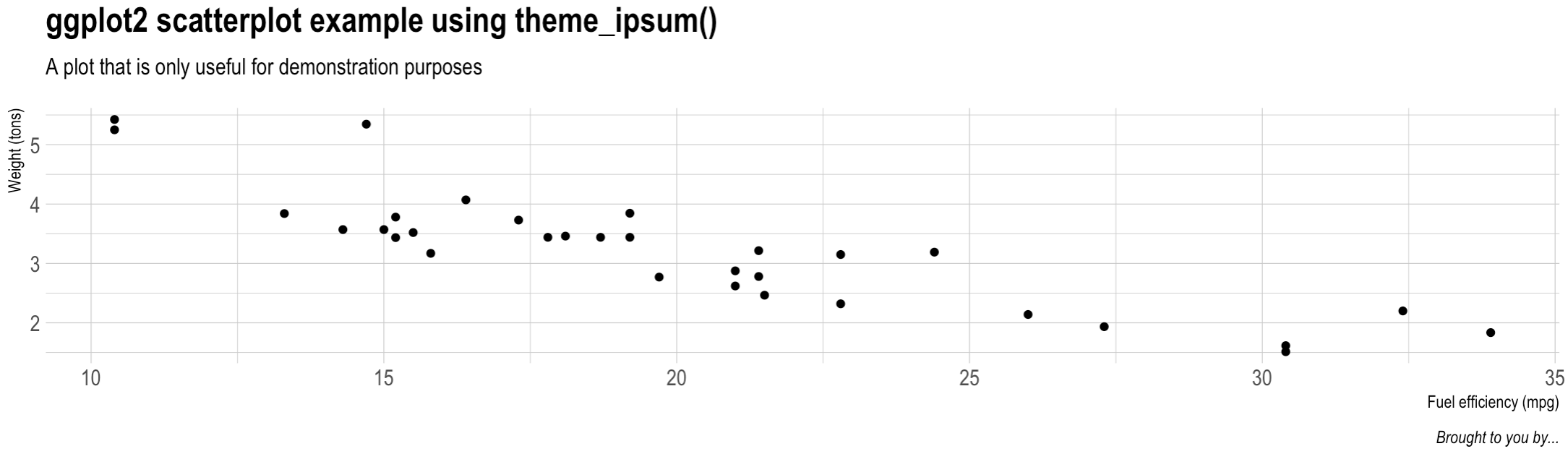
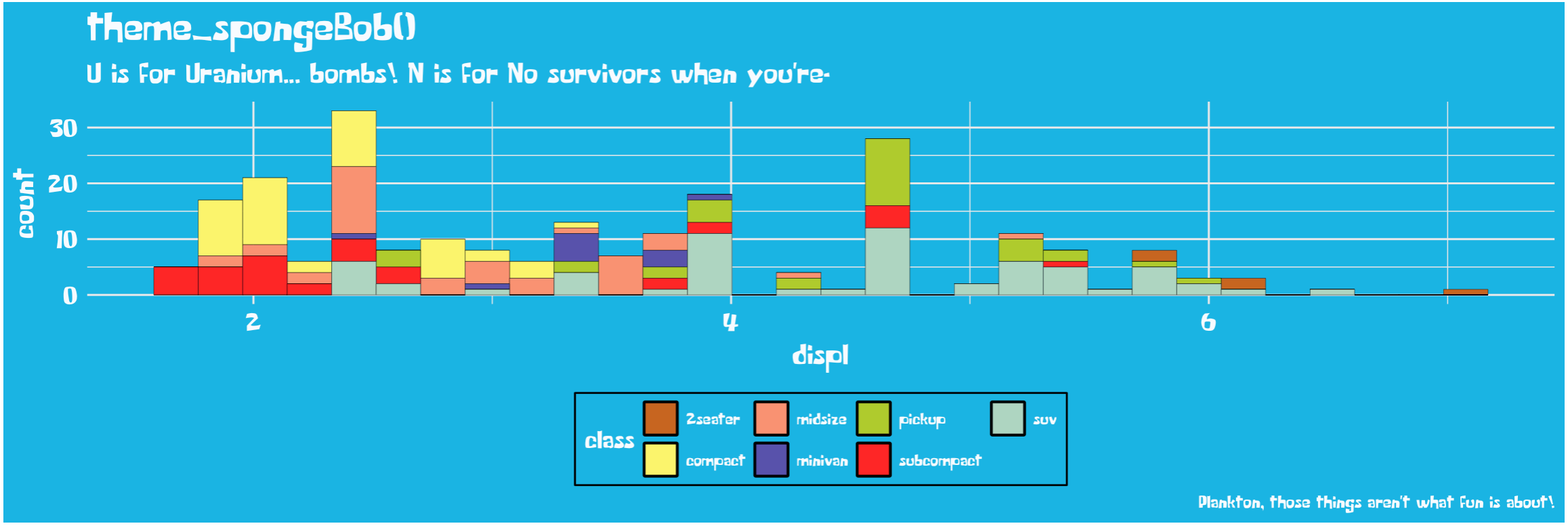


Code source: https://github.com/hrbrmstr/hrbrthemes

tvthemes

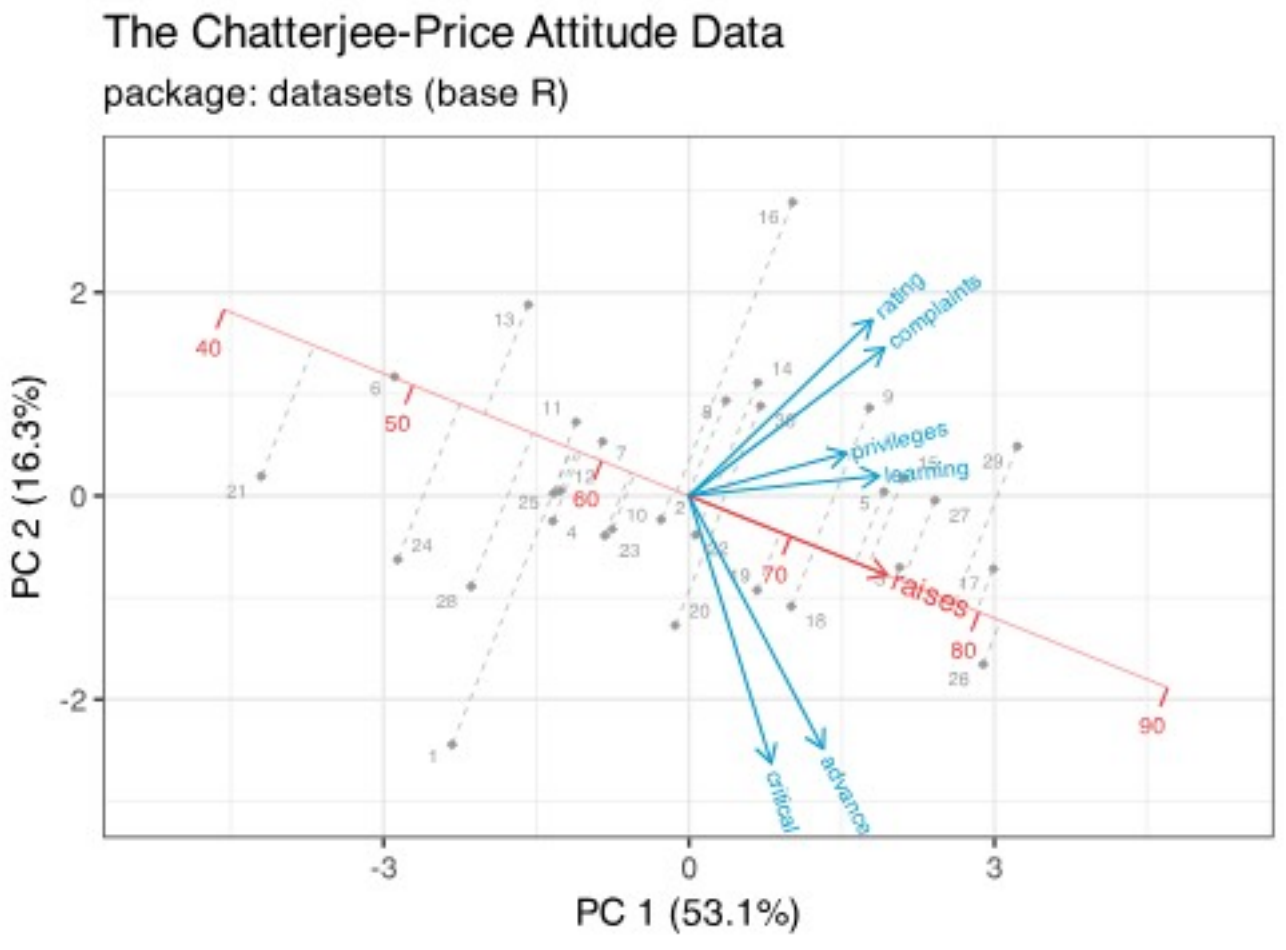
</>



Code source: https://ryo-n7.github.io/tvthemes/articles/examples.html

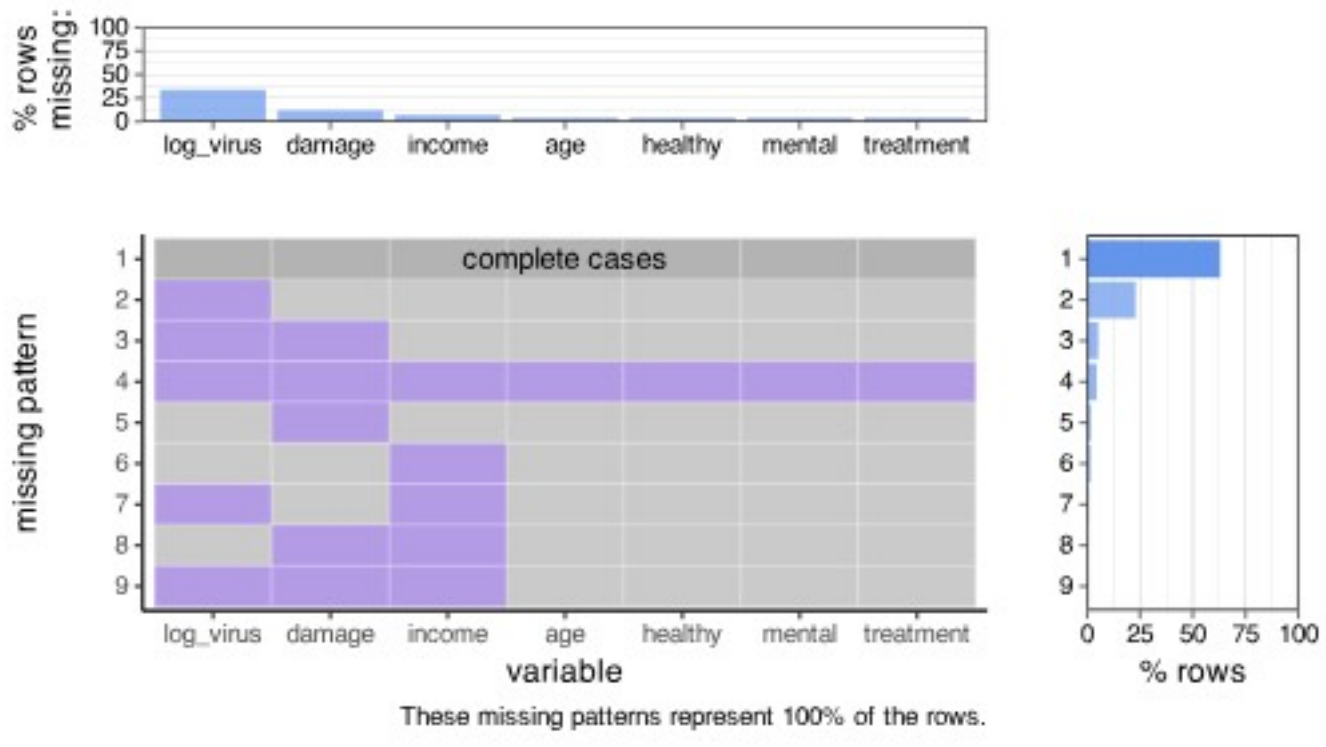
Category II
complete plots

redav::draw_biplot()



https://github.com/jtr13/redav

redav::plot_missing()



https://github.com/jtr13/redav

Category III

Misc

`patchwork` – easily combine separate ggplots into the same graphic

`gganimate` – adds animation through new grammar classes

patchwork

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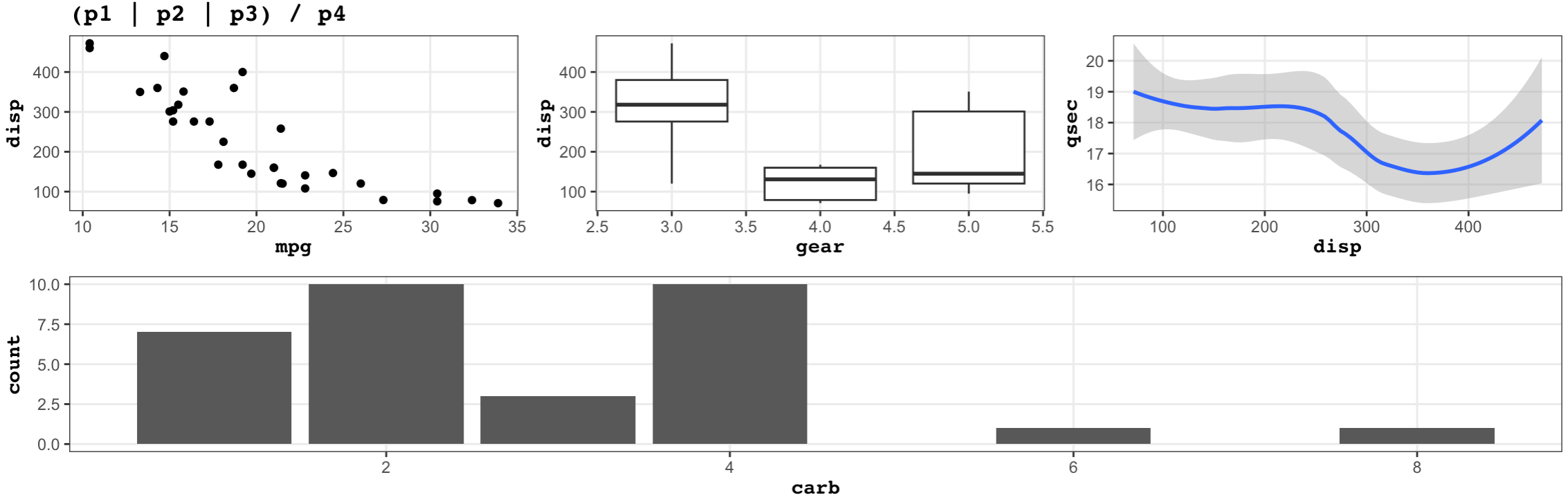
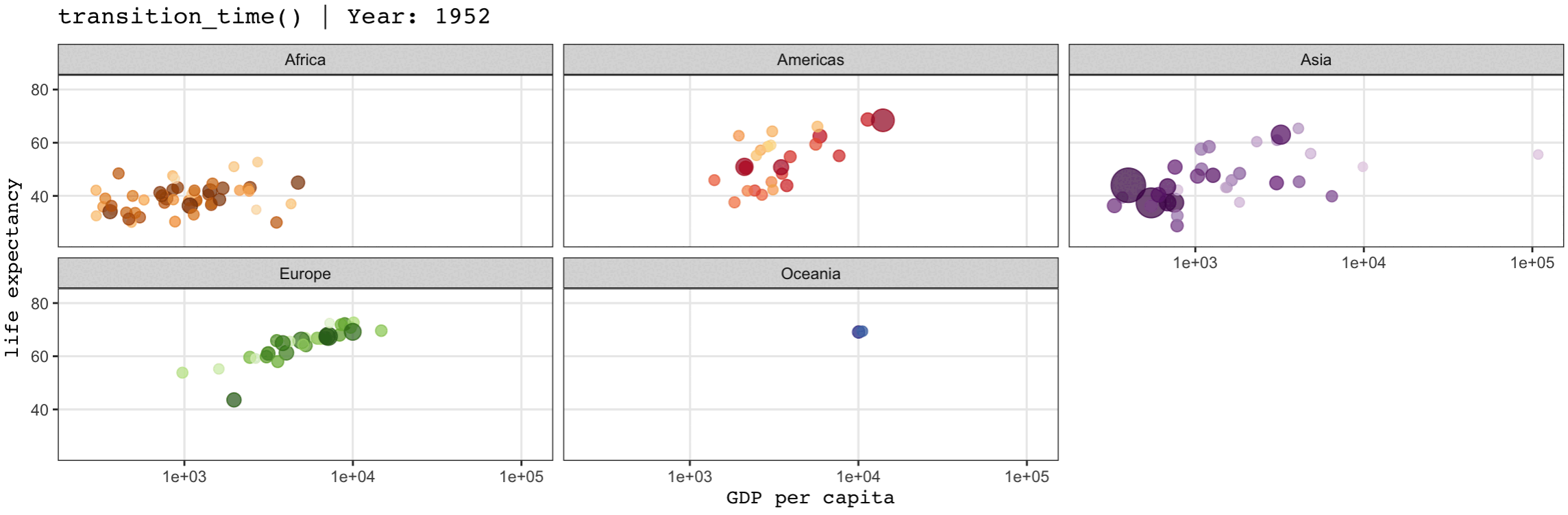


Code source: https://patchwork.data-imaginist.com/

gganimate

</>



Code source: https://gganimate.com/