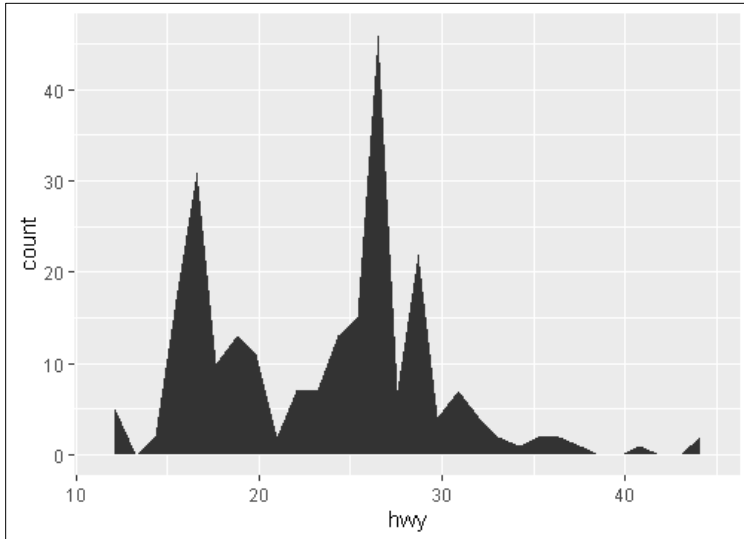# <u>Data Visualizations using 'ggplot2'</u>
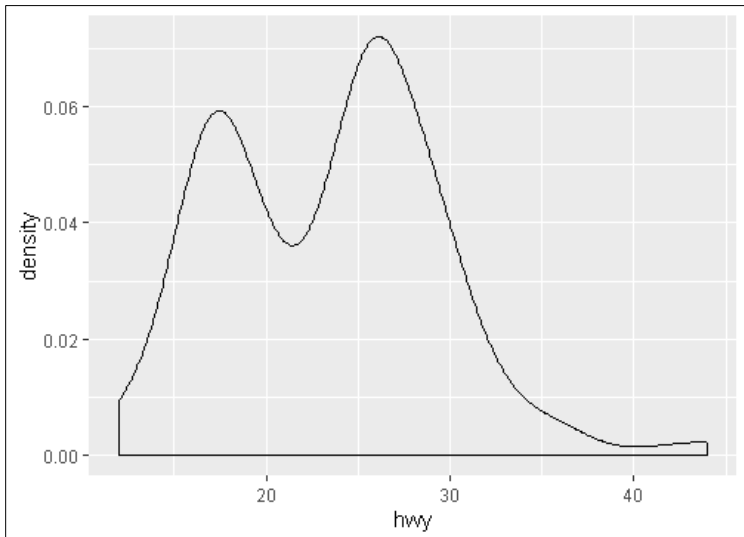
One variable

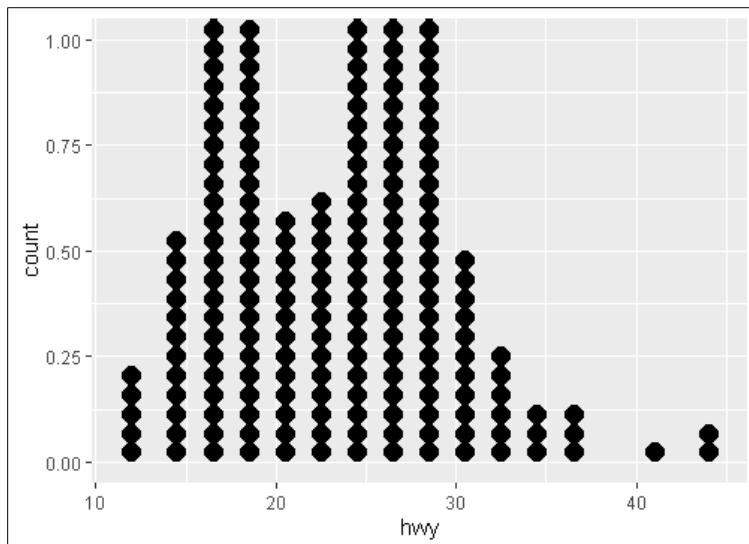Continuous

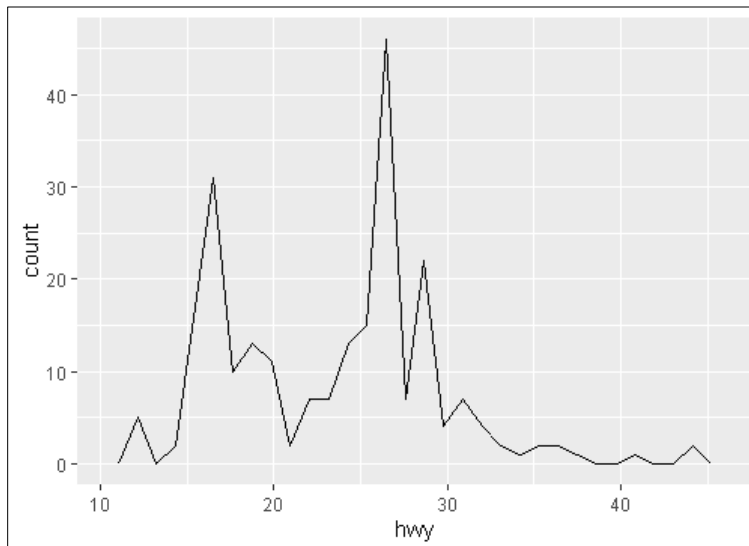1. geom_area

2. geom_density
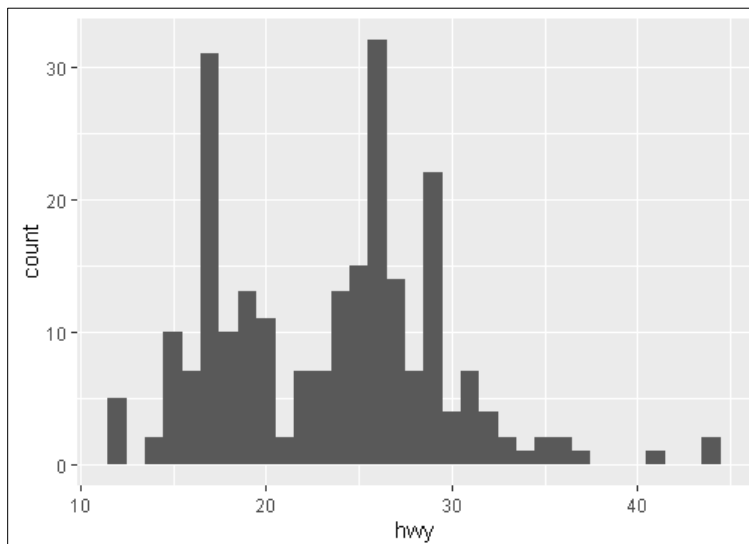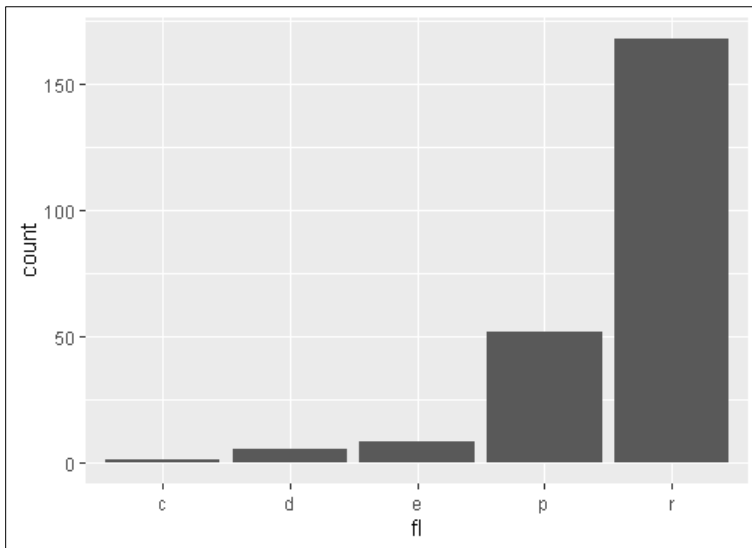
3. geom_dotplot

4. geom_freqpoly

5. geom_histogram
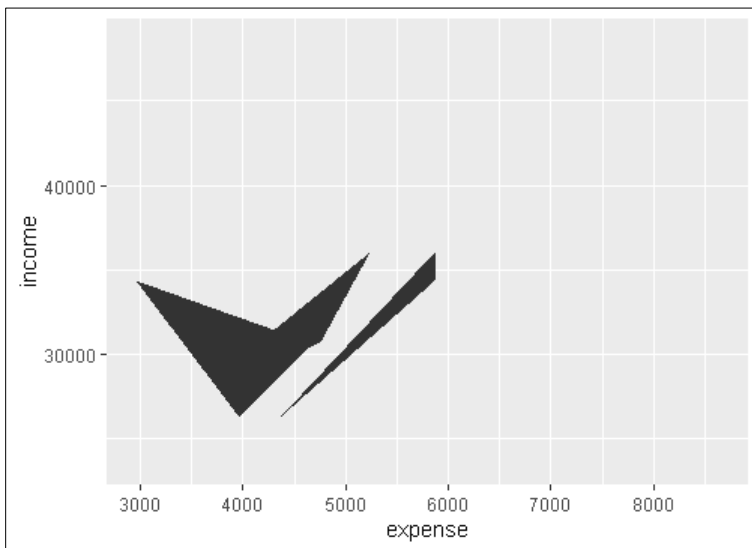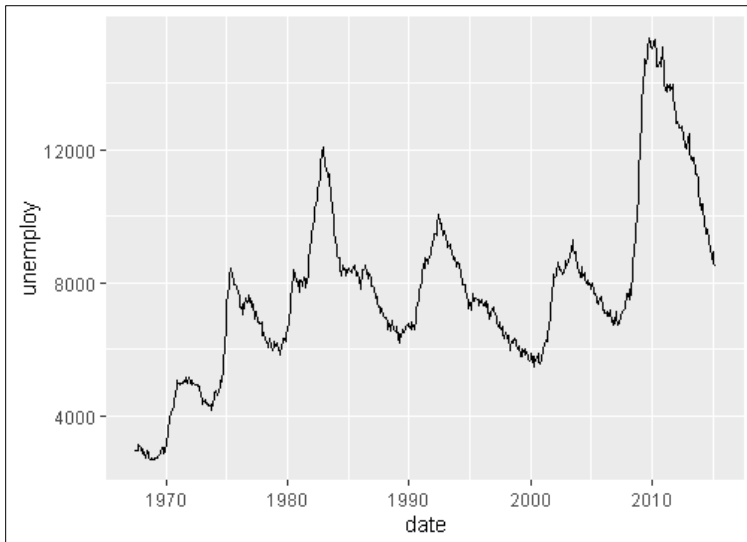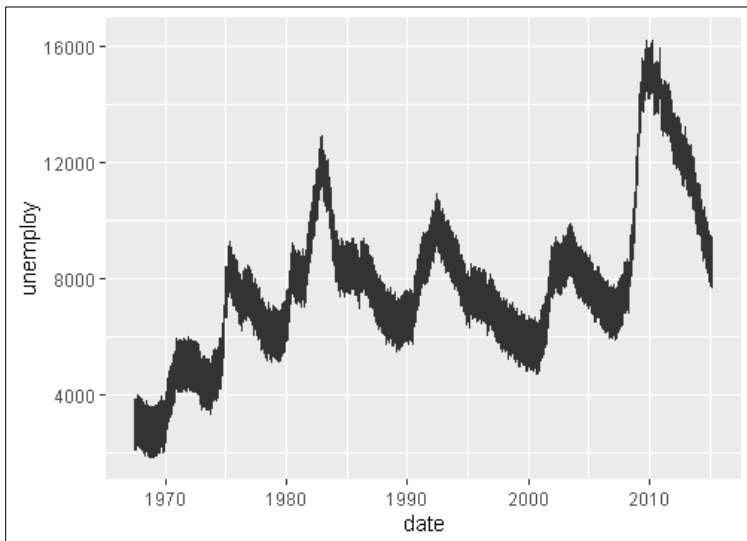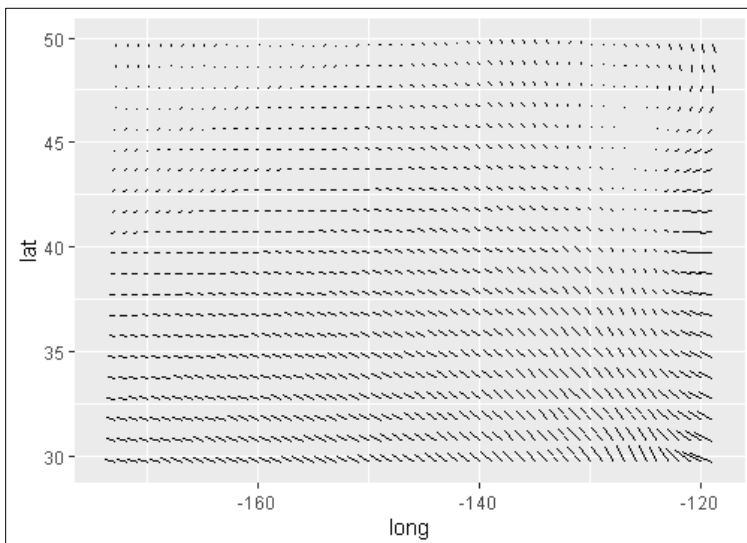
Discrete

1. geom_bar

Graphical Primitives

1. geom_polygon

2. geom_path
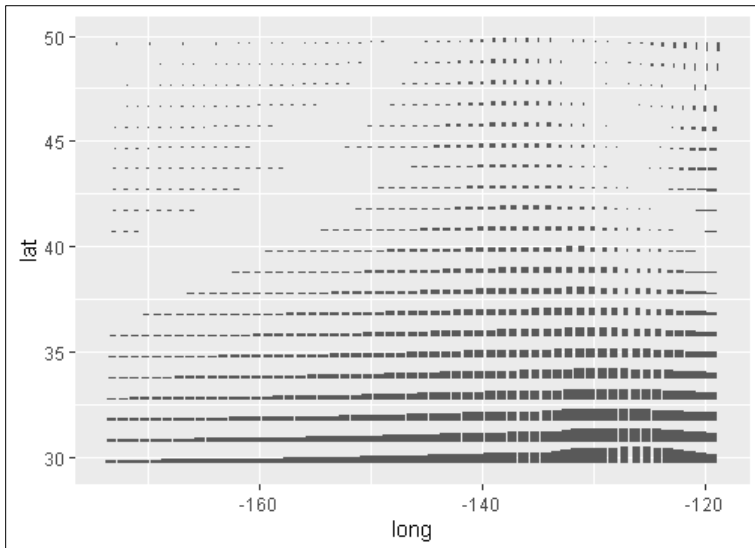

3. geom_ribbon

4. geom_segment
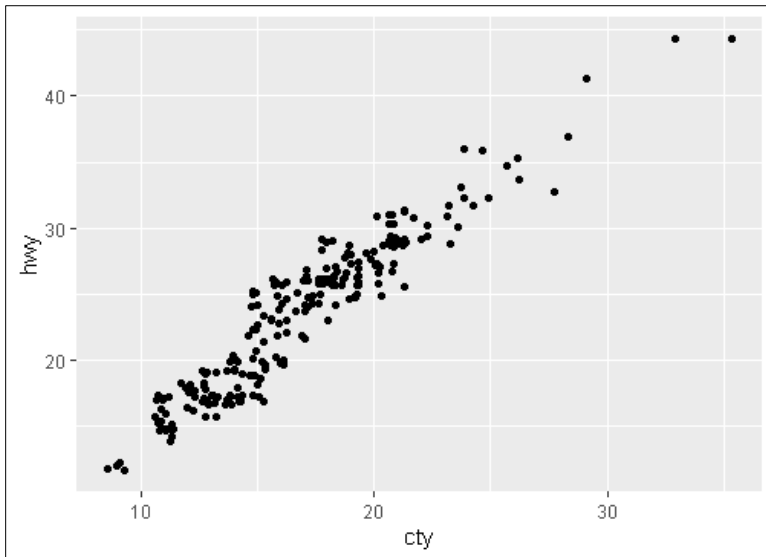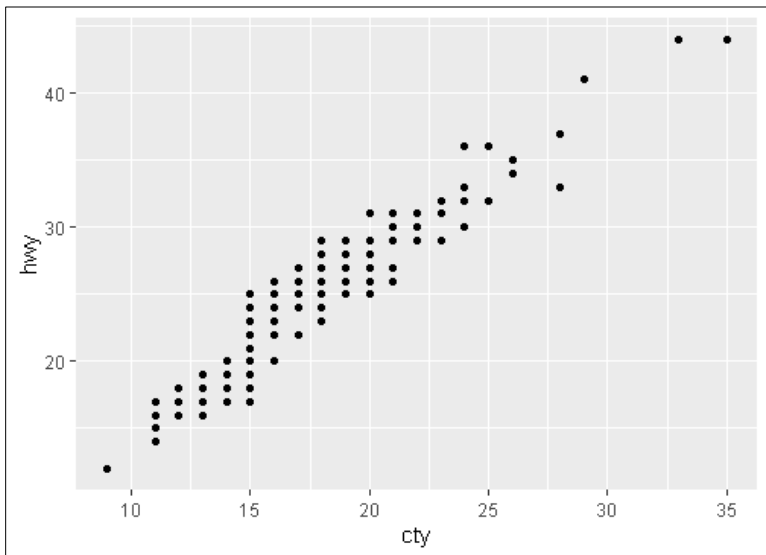
5. geom_rect

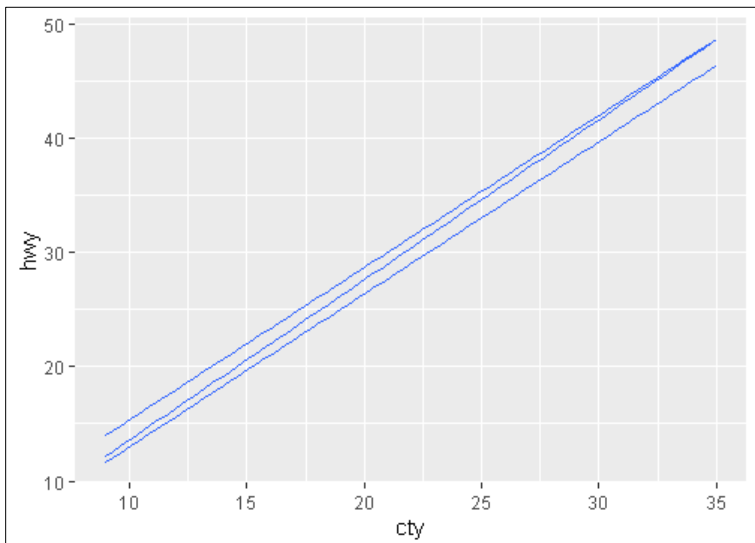
Two Variables

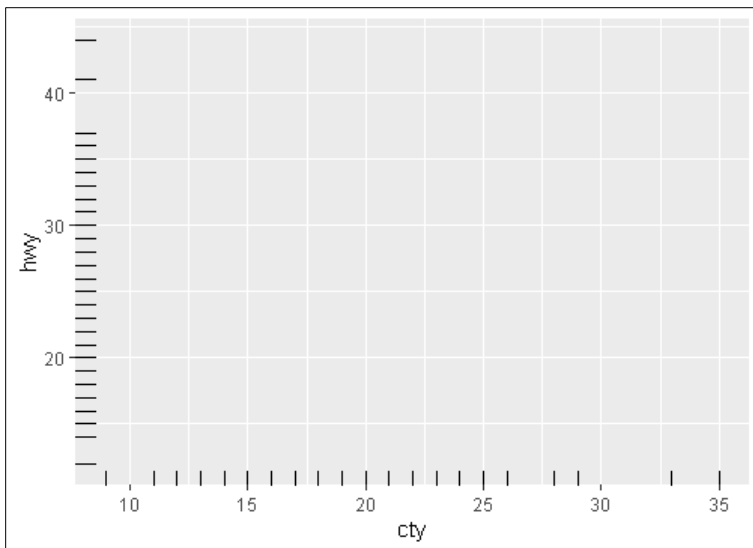Continuous X, Continuous Y
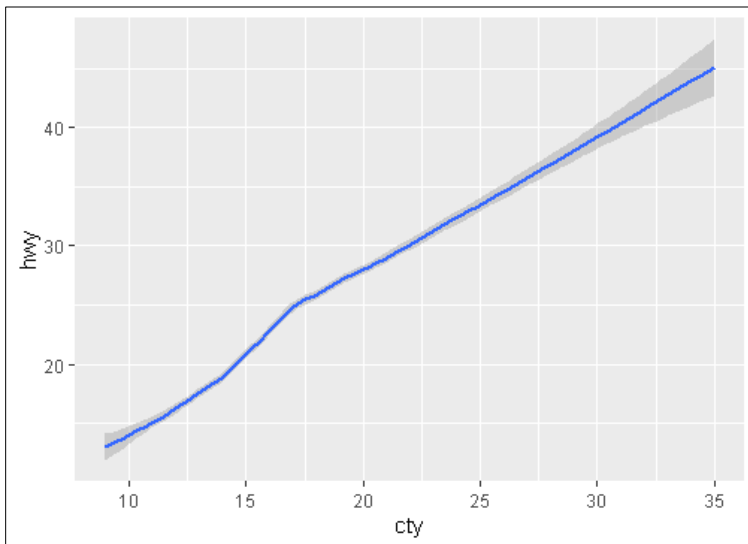
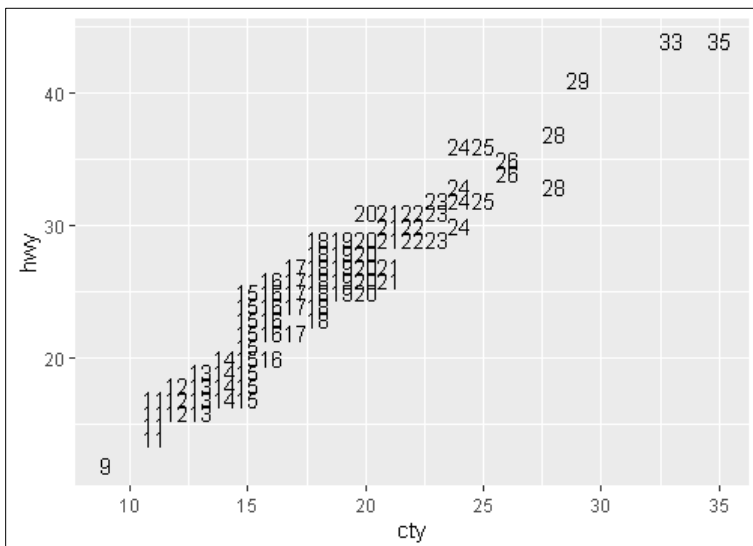1. geom_blank
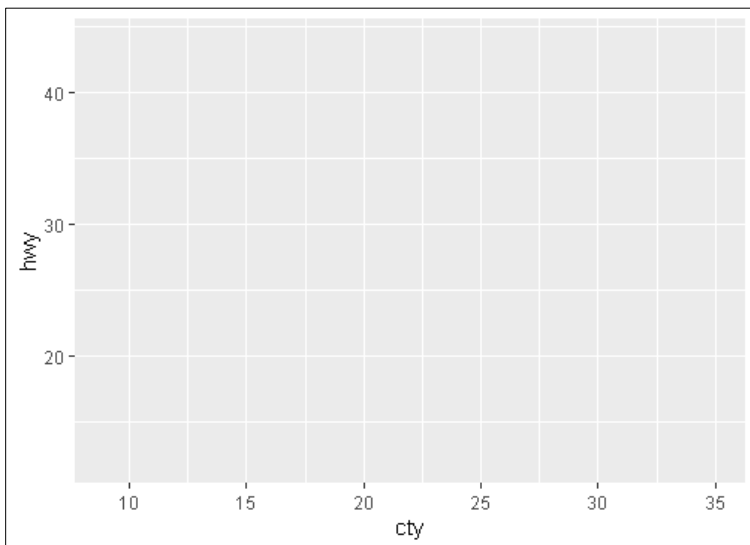
2. geom_jitter

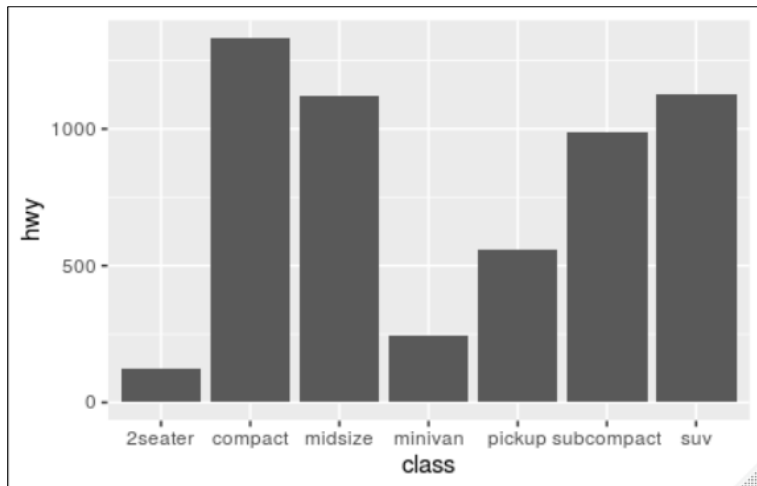

3. geom_point
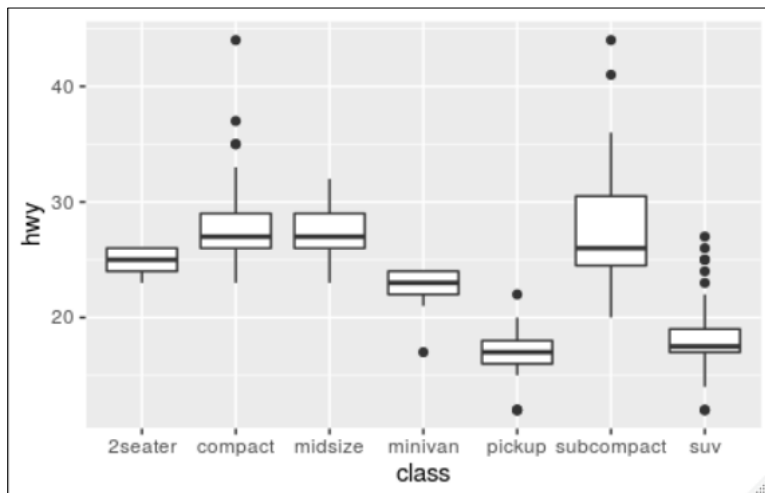

4. geom_quantile

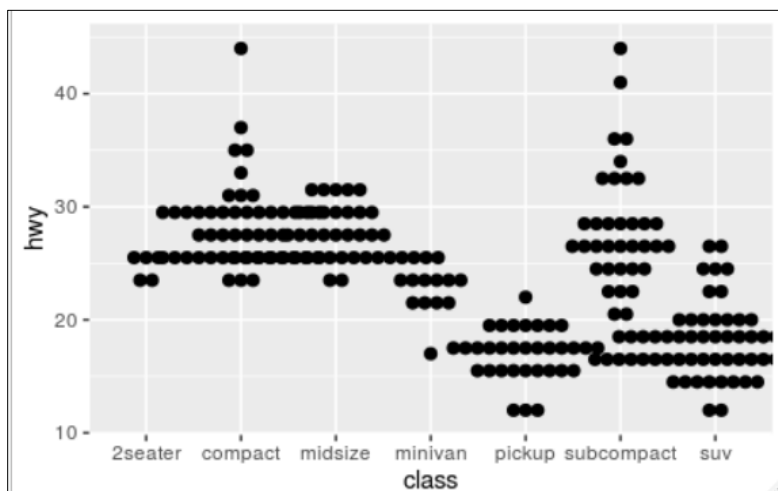5. geom_rug

6. geom_smooth
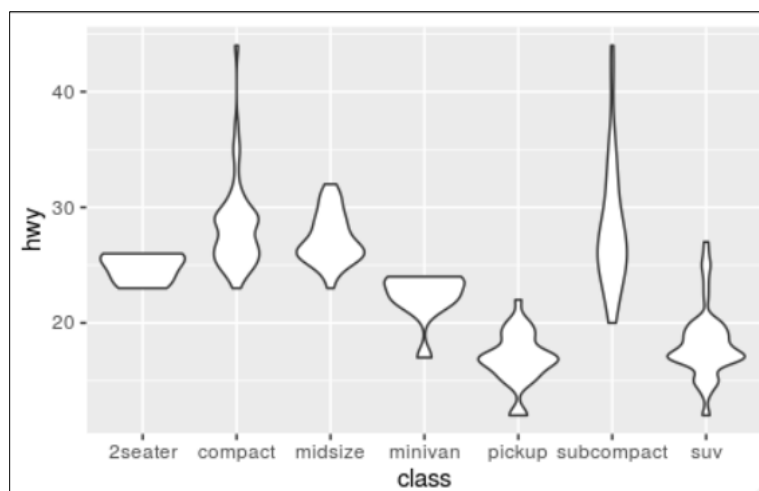

7. geom_text

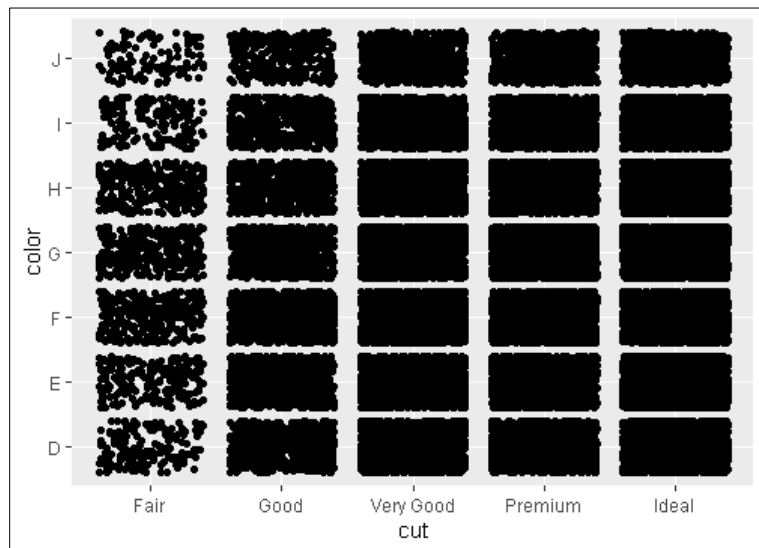Discrete X, Continuous Y

1. geom_bar

2. geom_boxplot

3. geom_dotplot

4. geom_violin
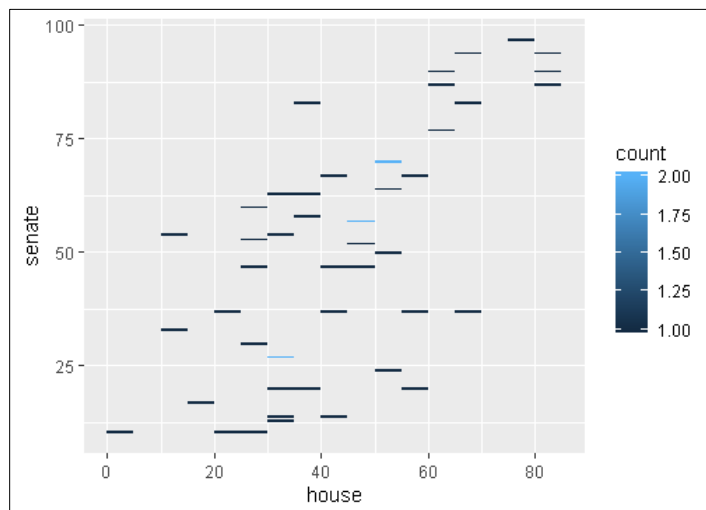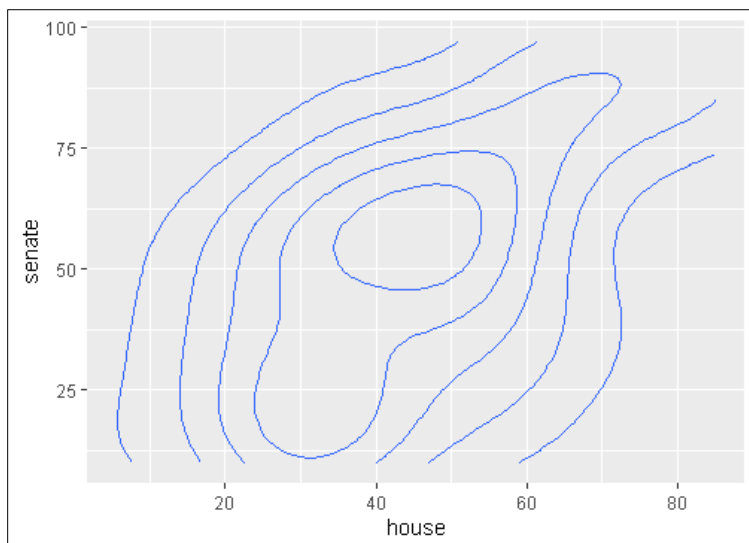

Discrete X, Discrete Y

1. geom_jitter

Continuous Bivariate Distribution

1. geom_bin2d

2. geom_density2d
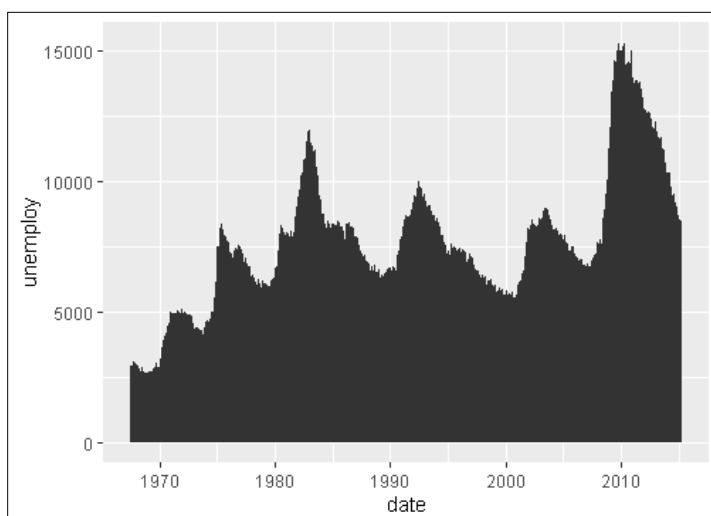

3. geom_hex
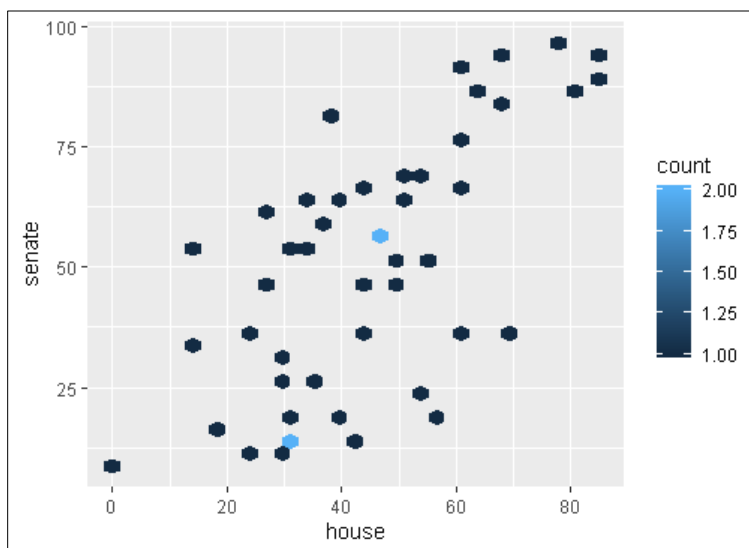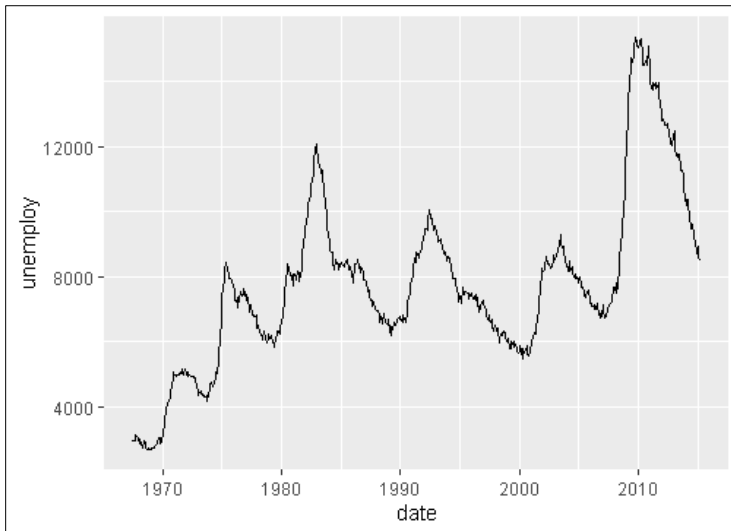

Continuous Function
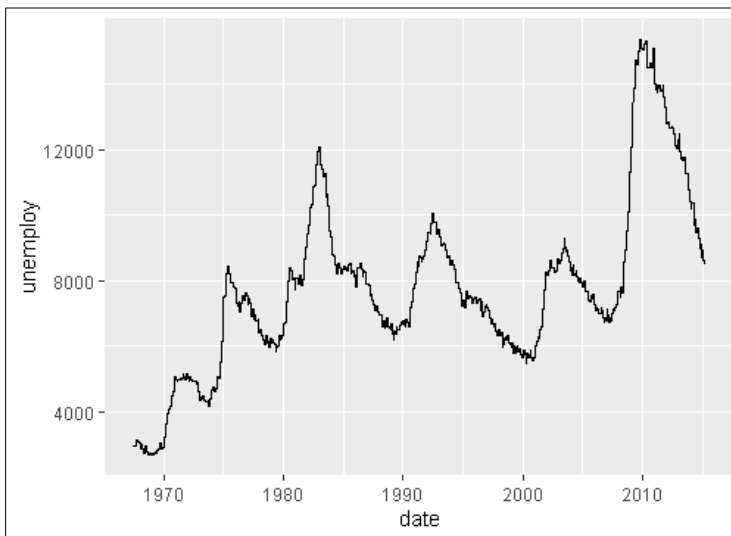
1. geom_area

2. geom_line
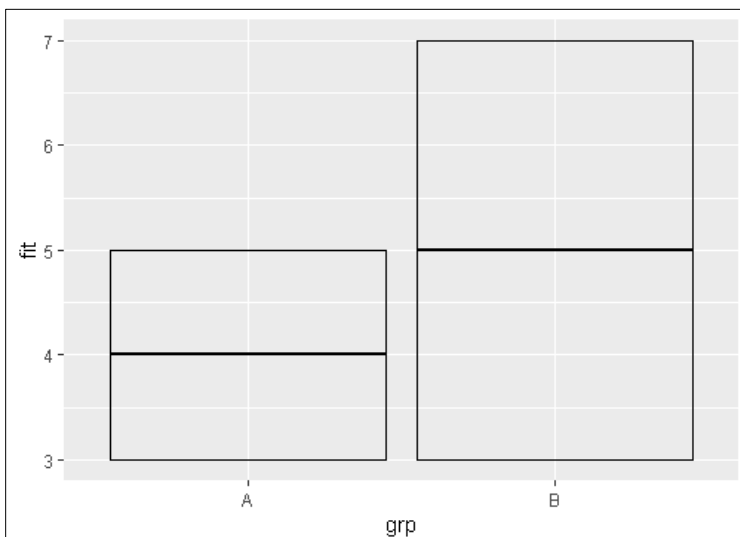

3. geom_step

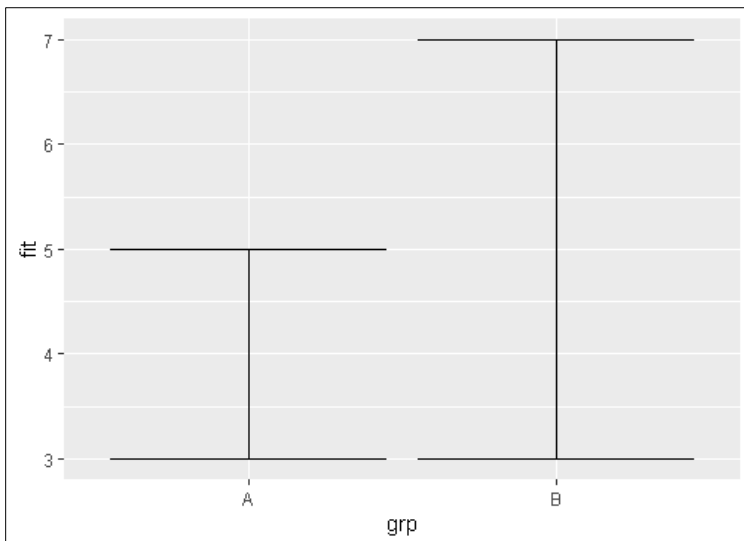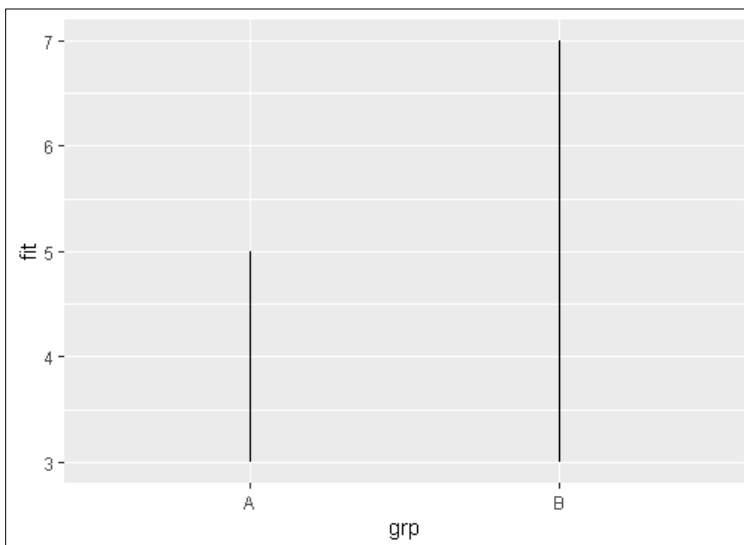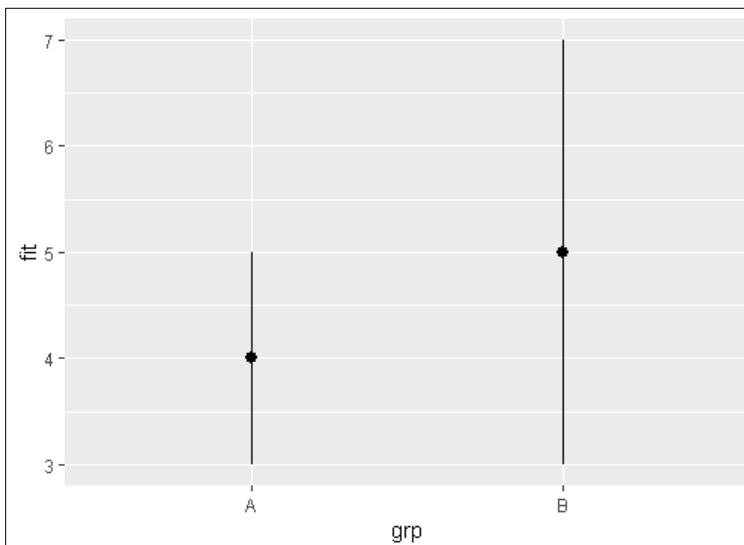Visualizing error

1. geom_crossbar

2. geom_errorbar

3. geom_linerange

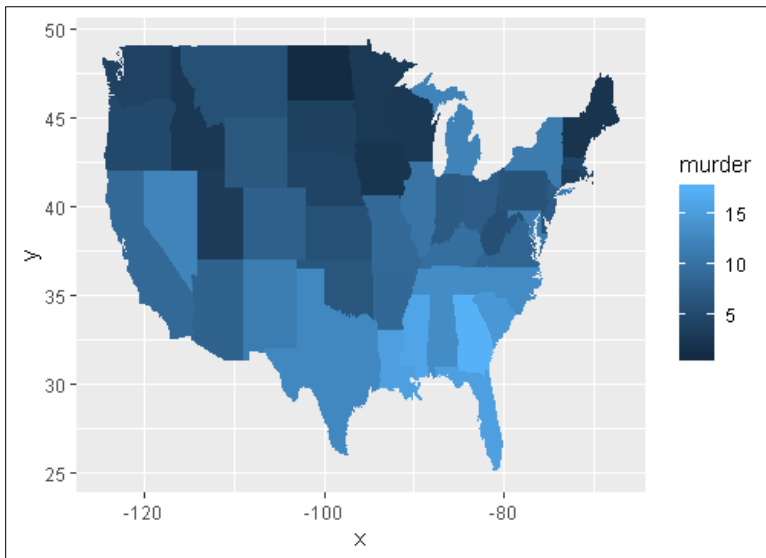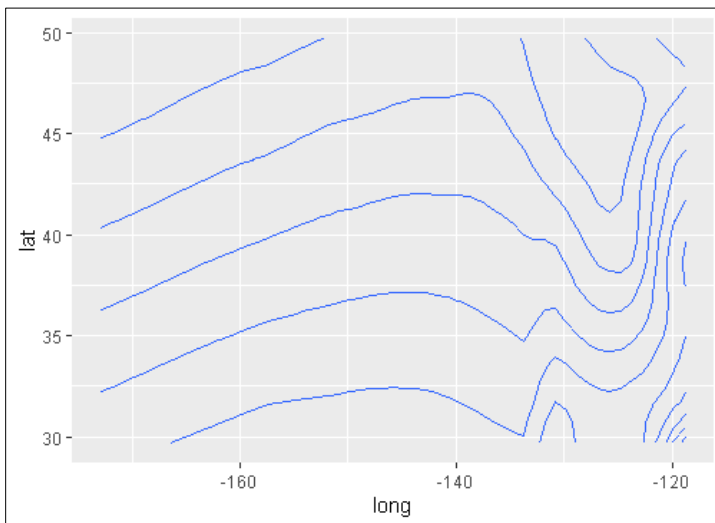4. geom_pointrange

Maps

1. geom_map

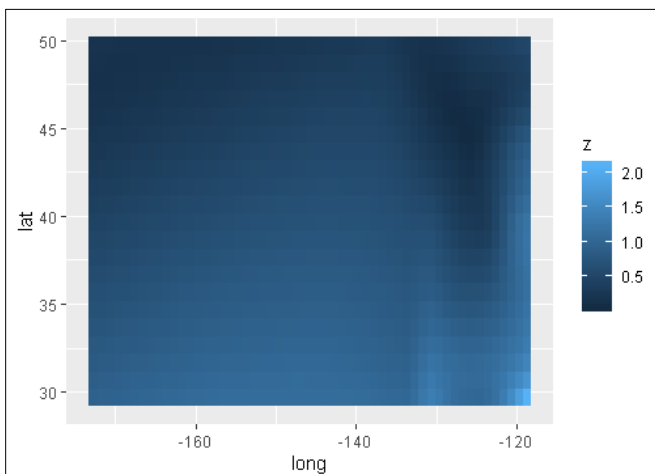Three Variables

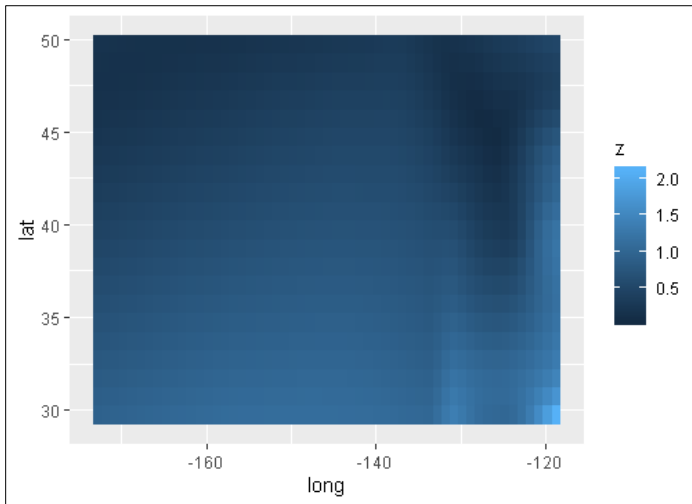1. geom_contour

2. geom_raster

3. geom_tile
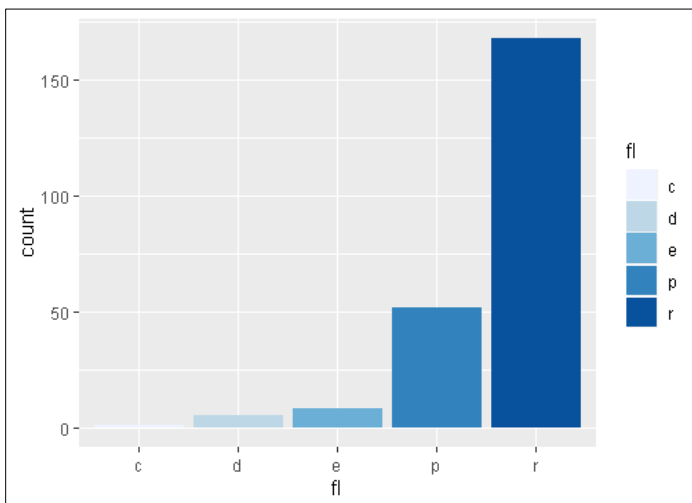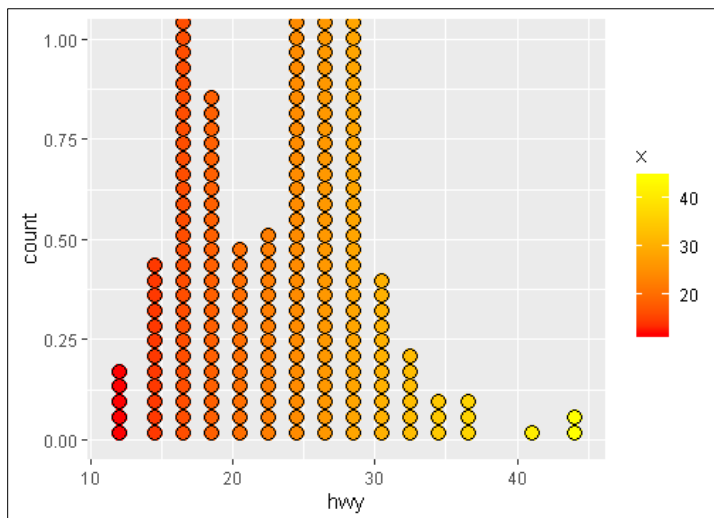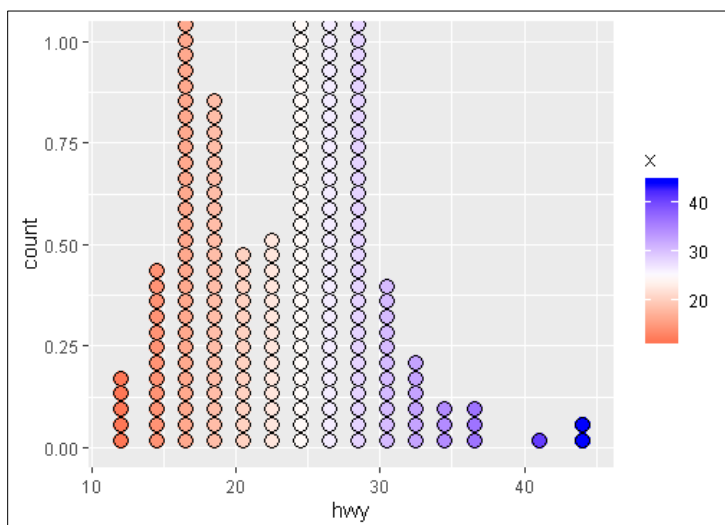

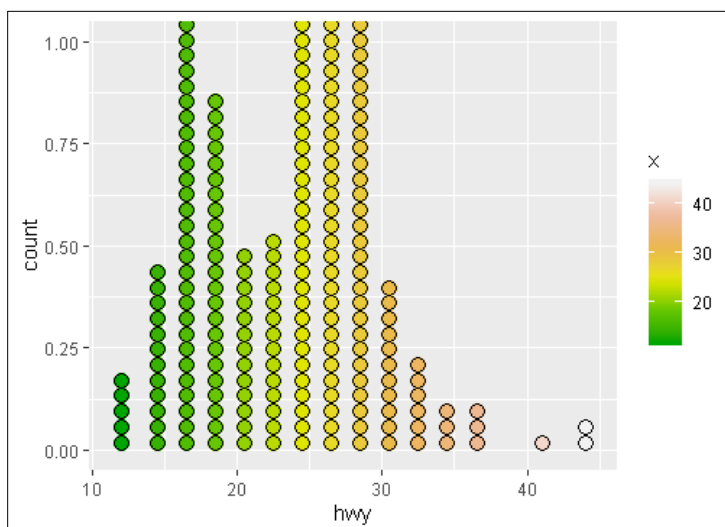
Scales

Discrete

1. scale_fill_brewer

2. scale_fill_grey
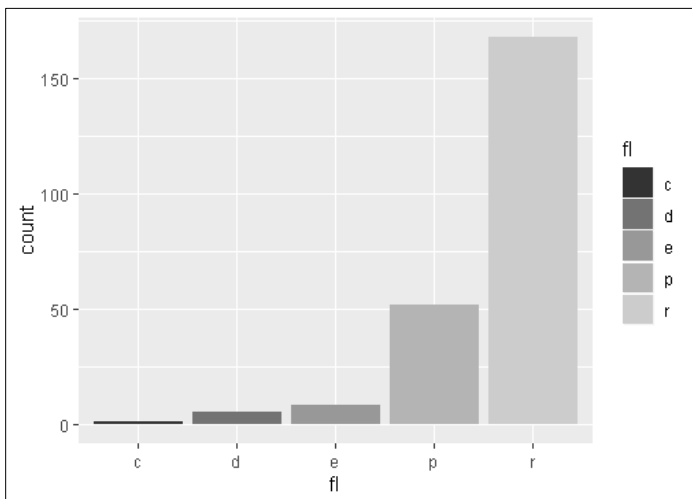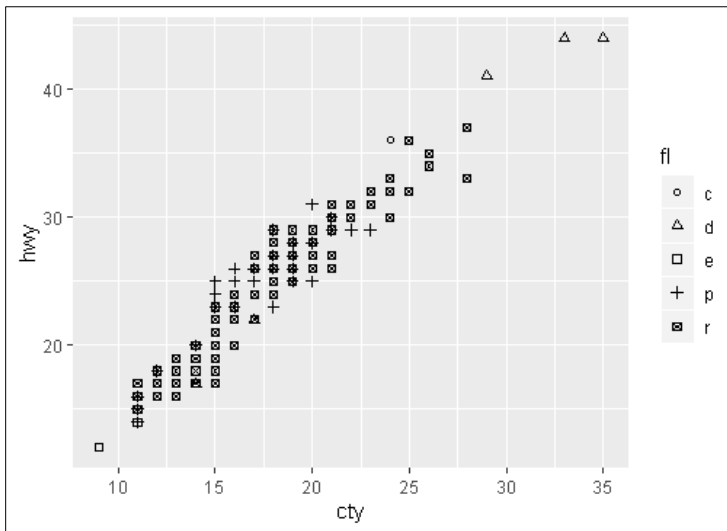
Continuous

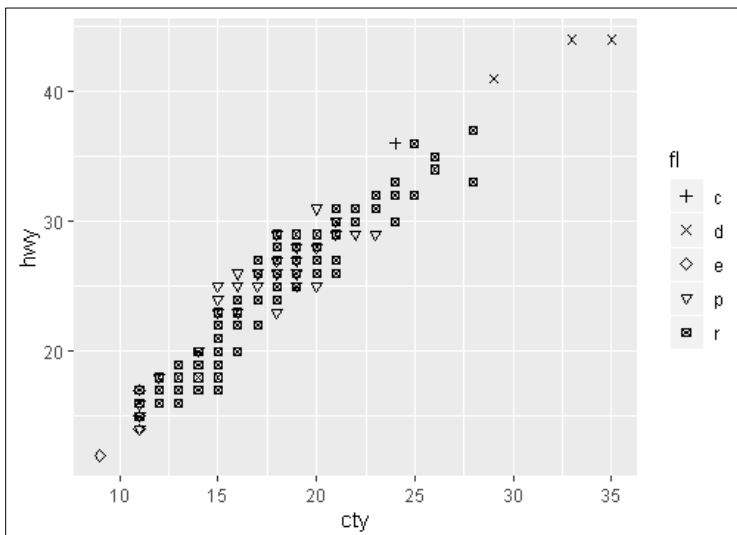1. scale_fill_gradient

2. scale_fill_gradient2
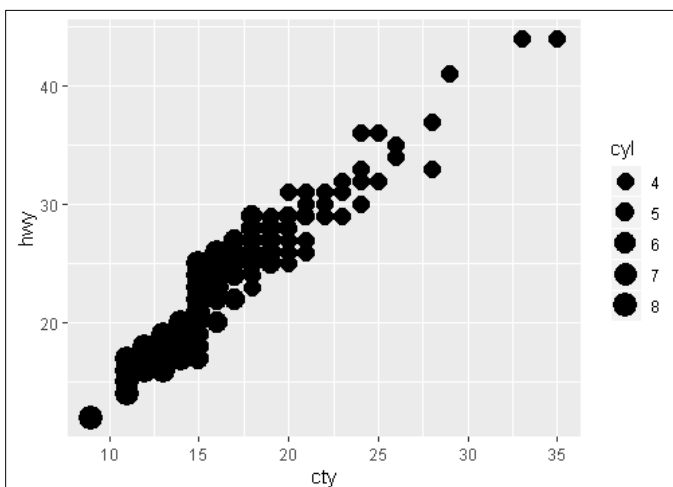

3. scale_fill_gradientn

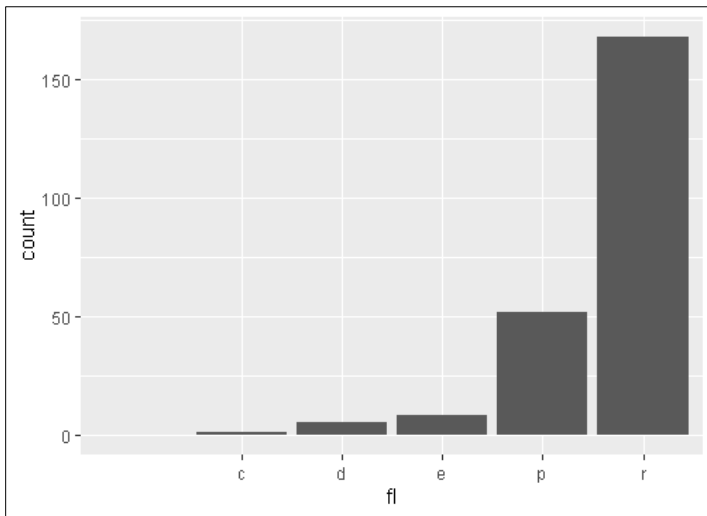Shape scales

  1. scale_shape
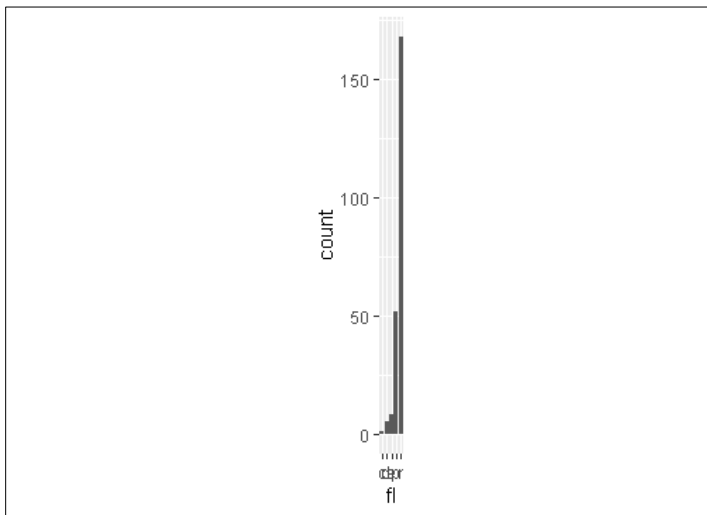

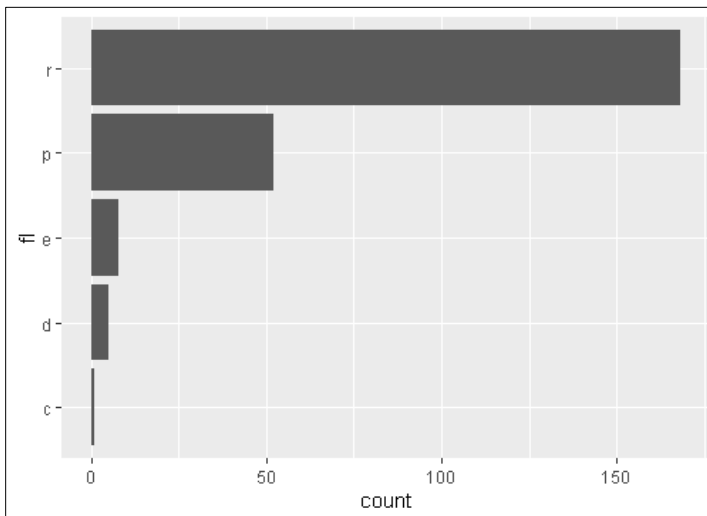 2. scale_shape_manual

Size scales

  1. scale_size_area

Coordinate Systems

1. coord_cartesian

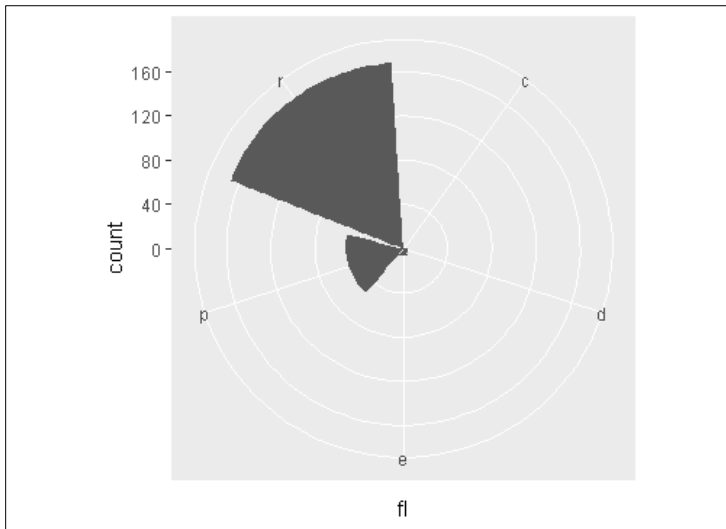2. coord_fixed

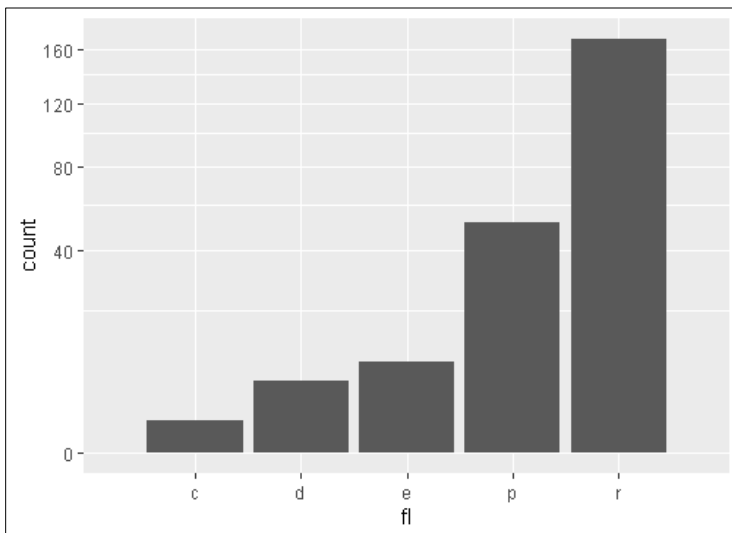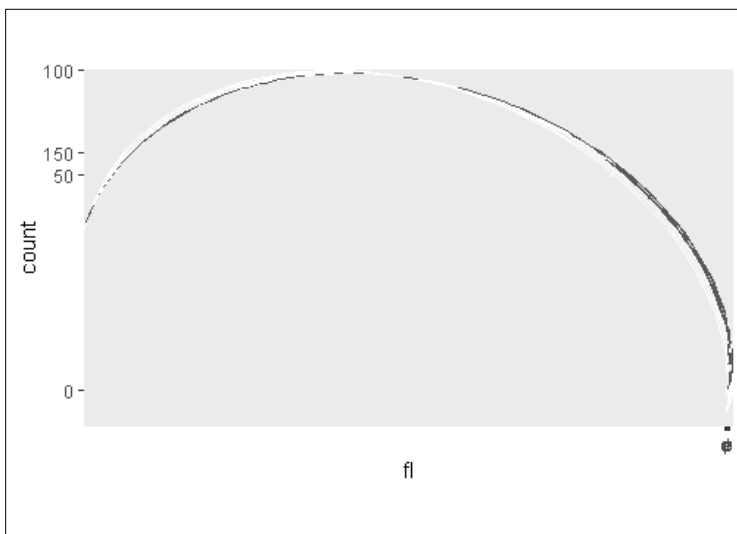3. coord_flip

4. coord_polar

5. coord_trans
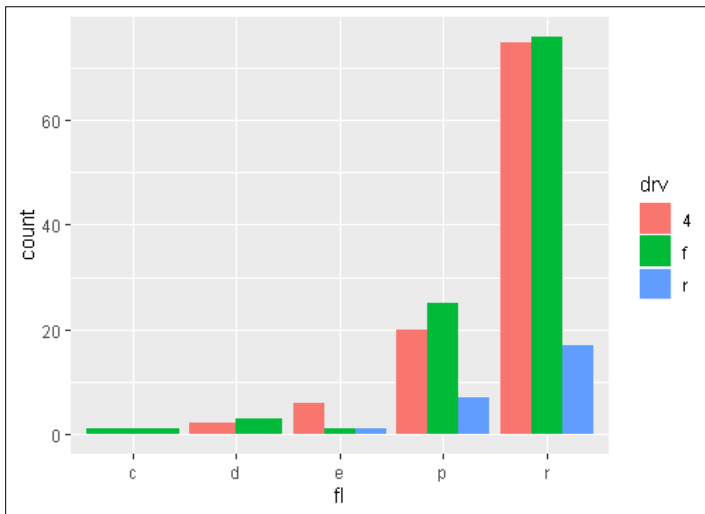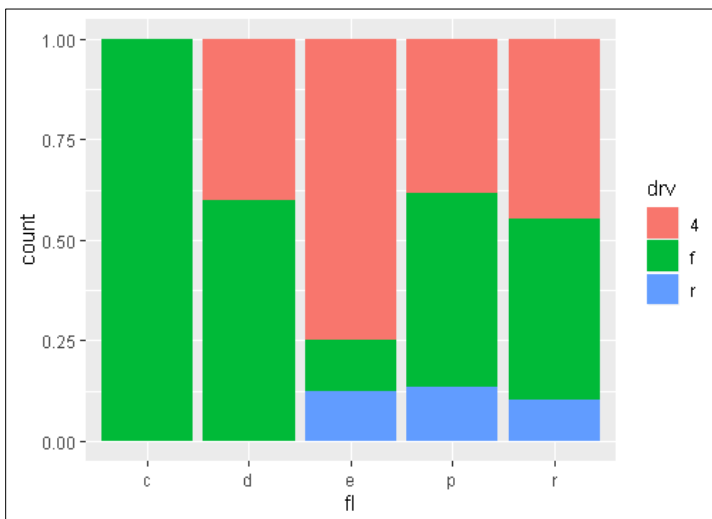

6. coord_map

Position Adjustments
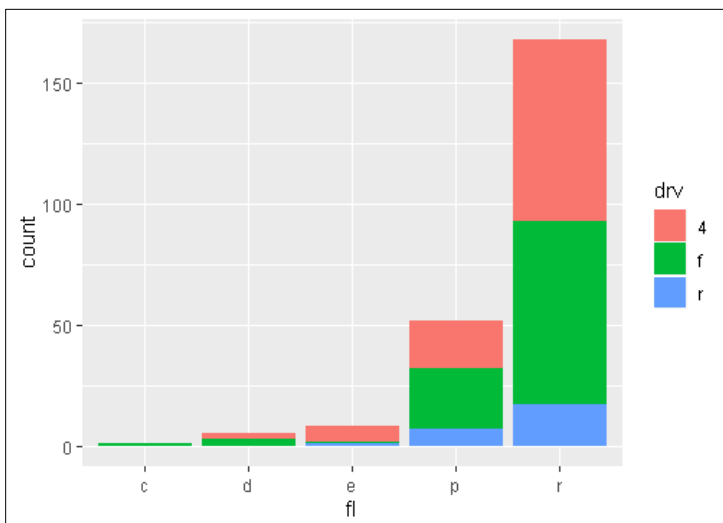
1. geom_bar(position = "dodge")

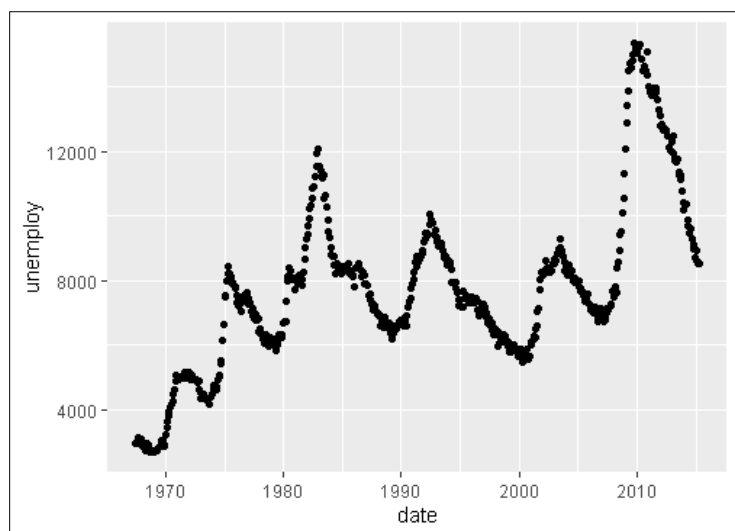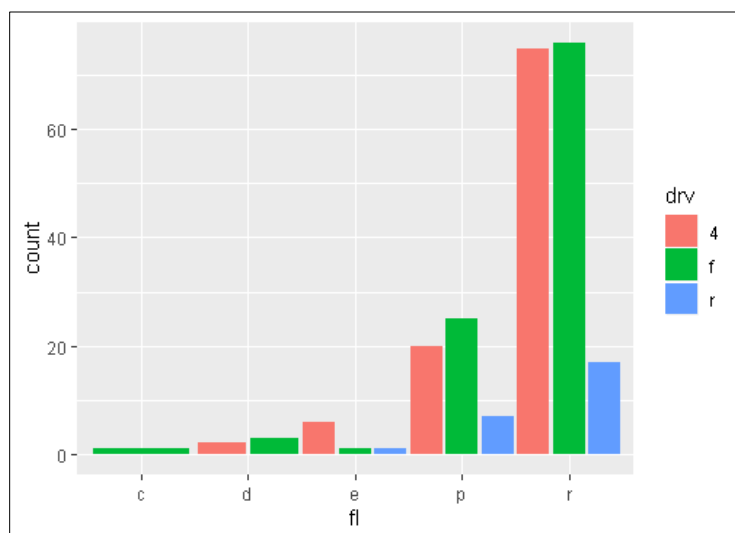

2. geom_bar(position = "fill")

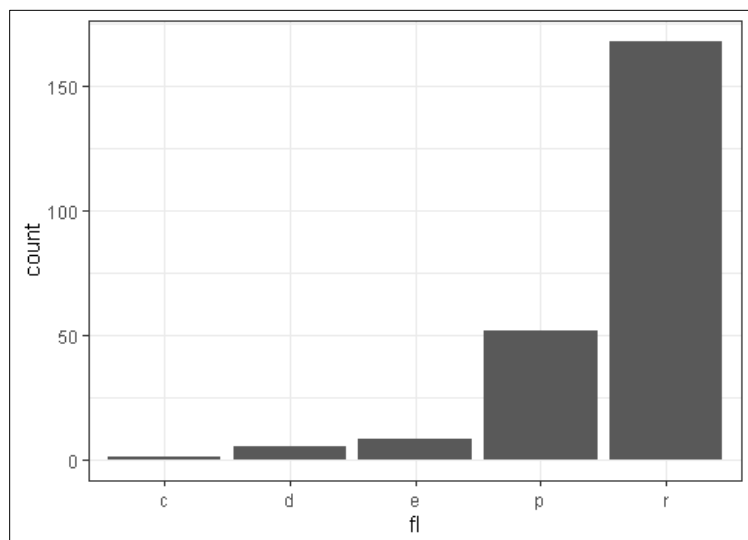3. geom_bar(position = "stack")

4. geom_point(position = "jitter")

5. geom_bar(position = position_dodge(width = 1))
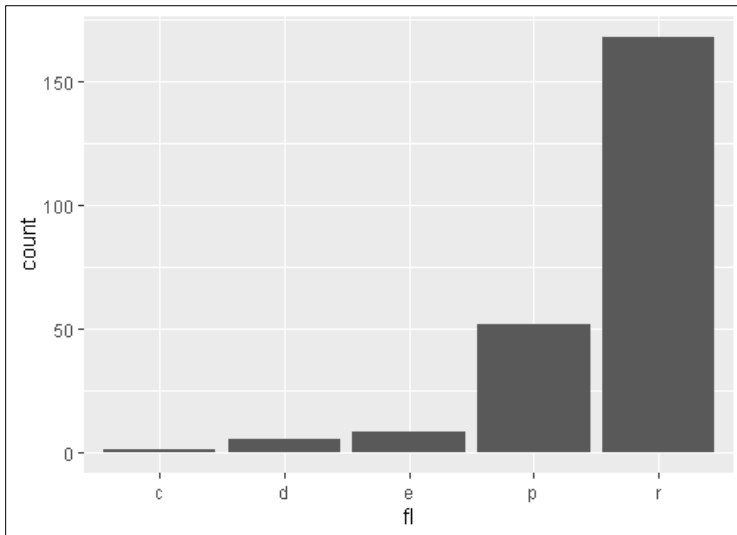

Themes
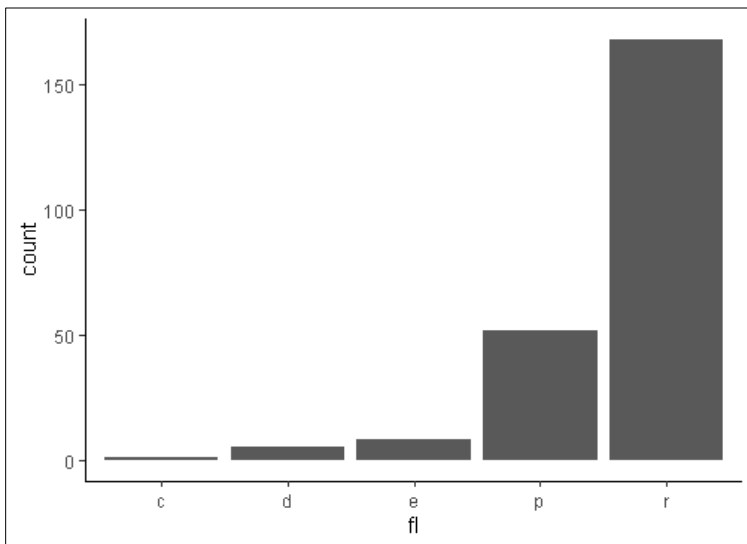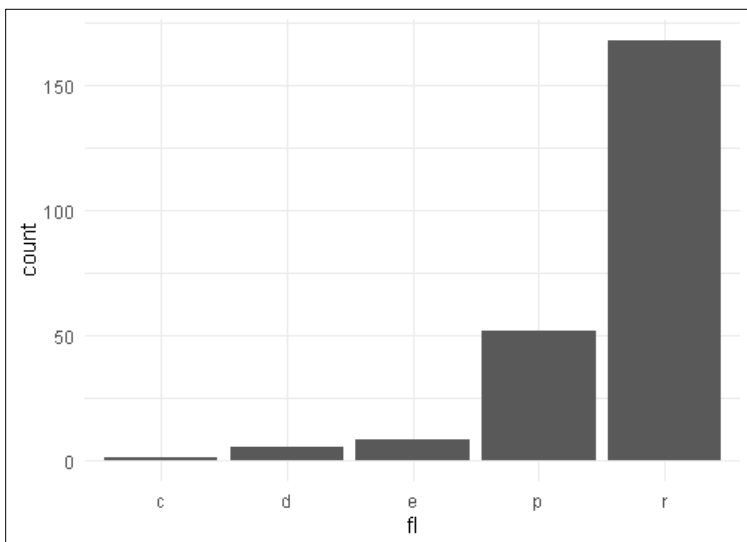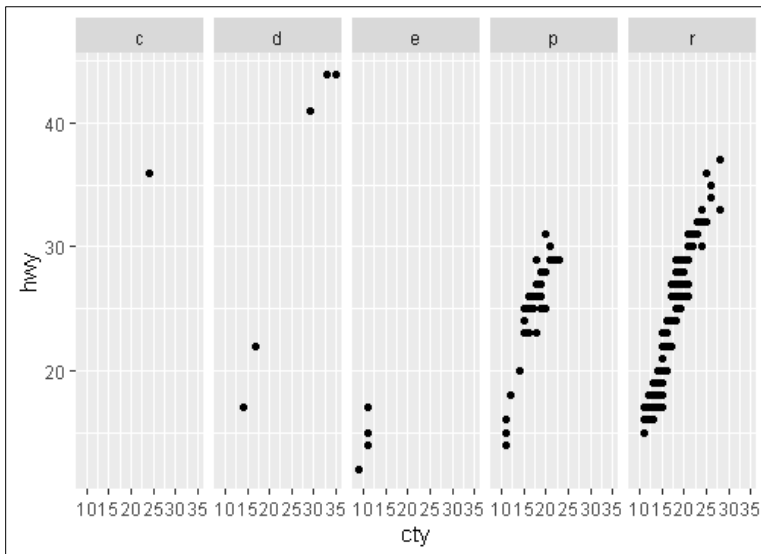
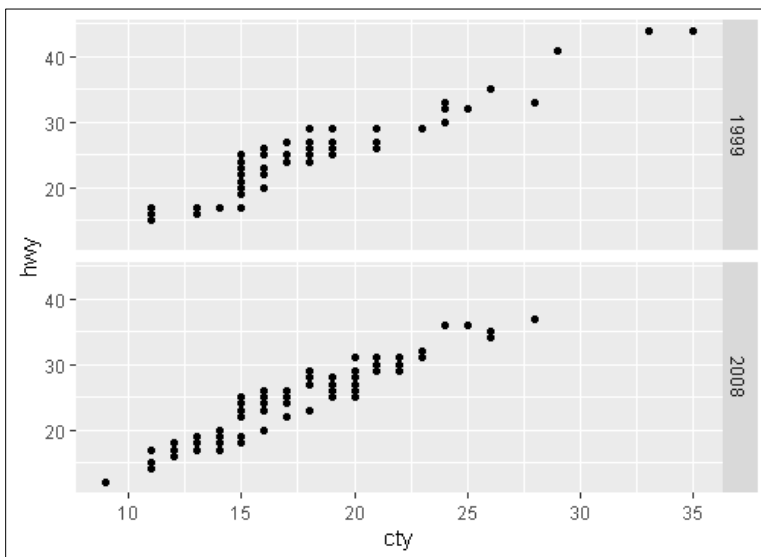1. theme_bw

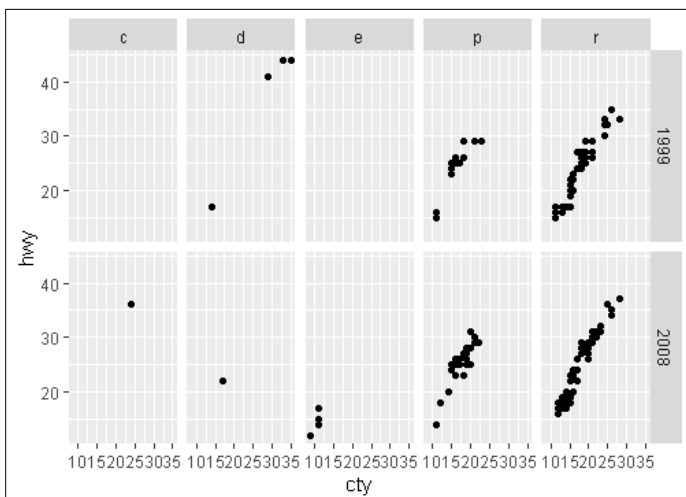2. theme_grey

3. theme_classic
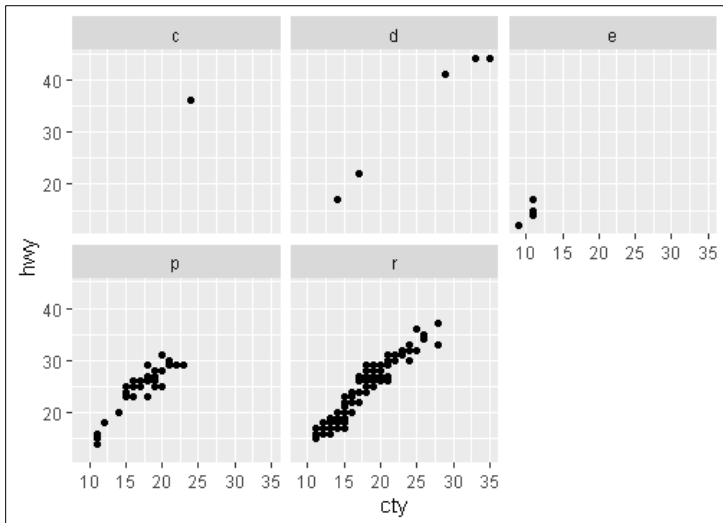

4. theme_minimal

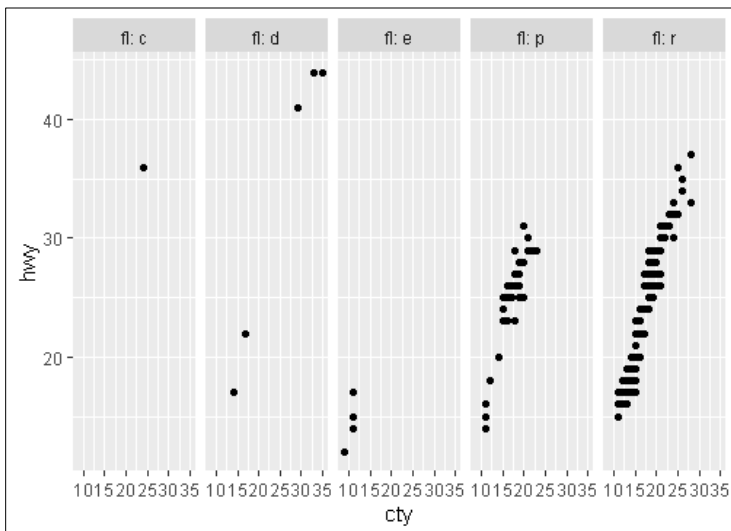Faceting

1. facet_grid(. ~ fl)
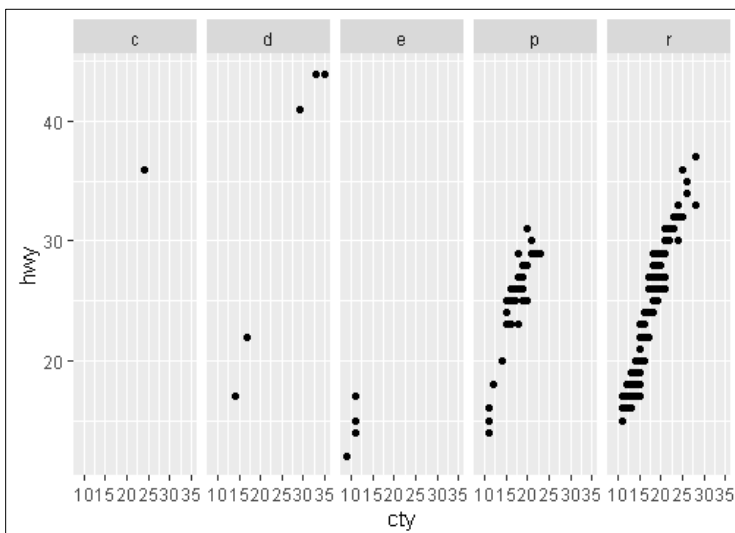

2. facet_grid(year ~ .)

3. facet_grid(year ~ fl)

4. facet_wrap(~ fl)

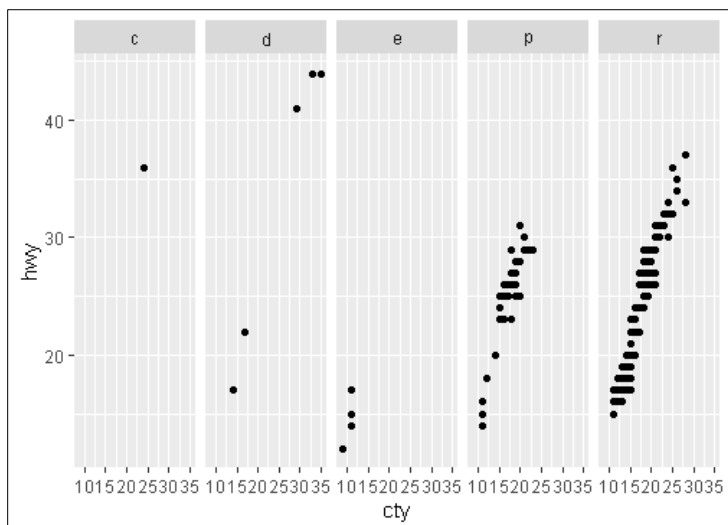

5. facet_grid(. ~ fl, labeller = label_both)

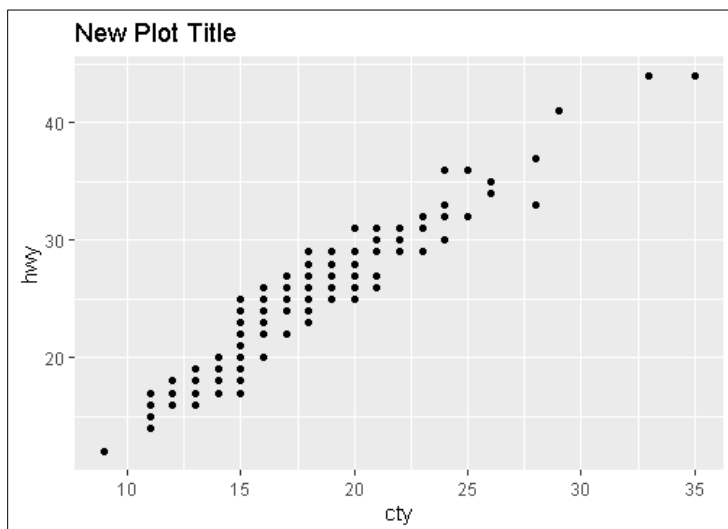6. facet_grid(. ~ fl, labeller = label_bquote(alpha ^ .(x)))
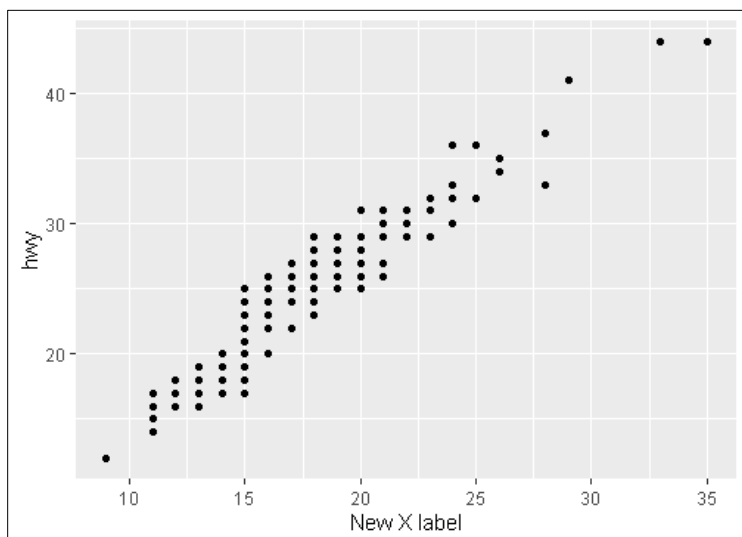
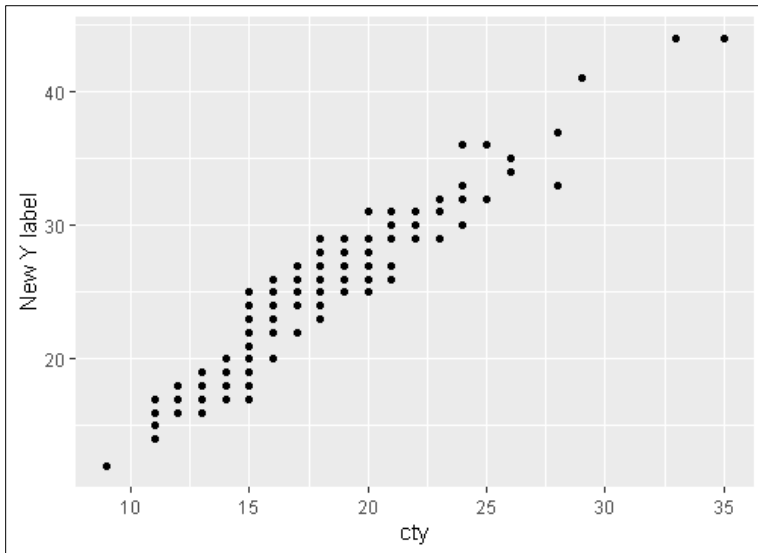7. facet_grid(. ~ fl, labeller = label_parsed) facet_grid
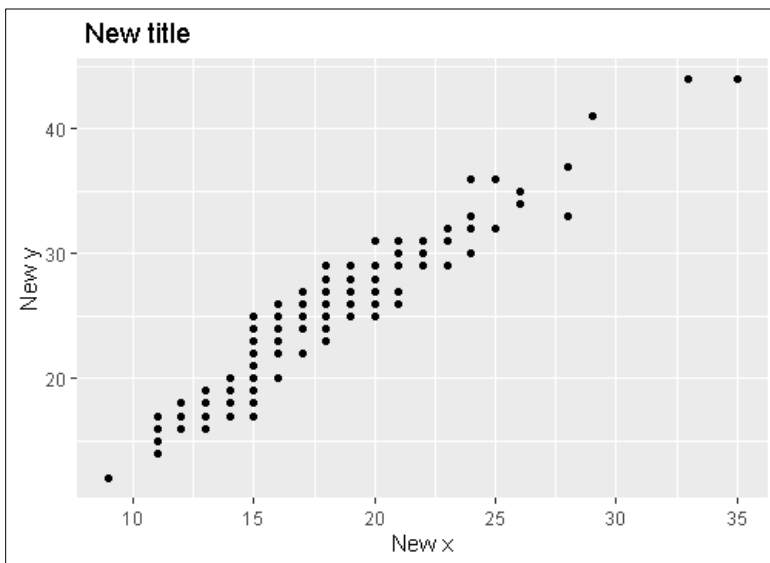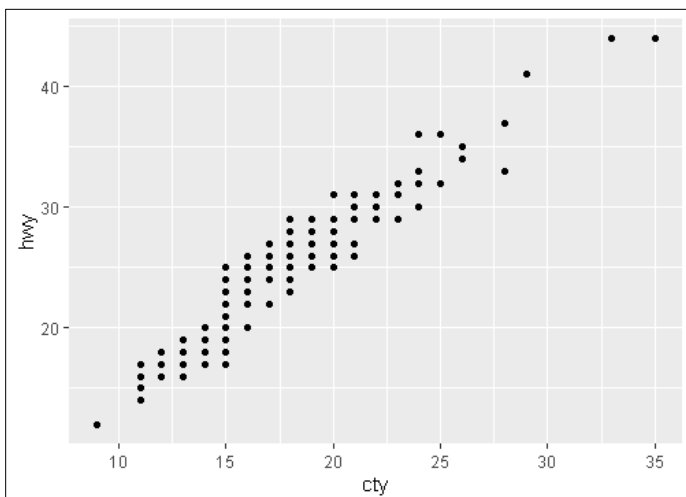

Labels

1. ggtitle

2. xlab

3. ylab

4. labs
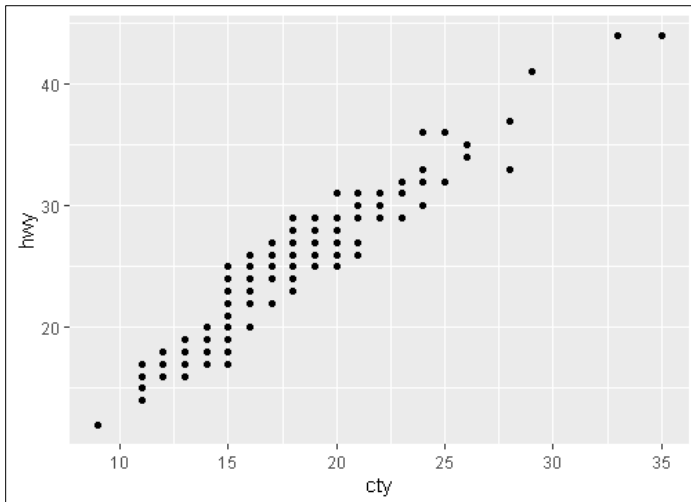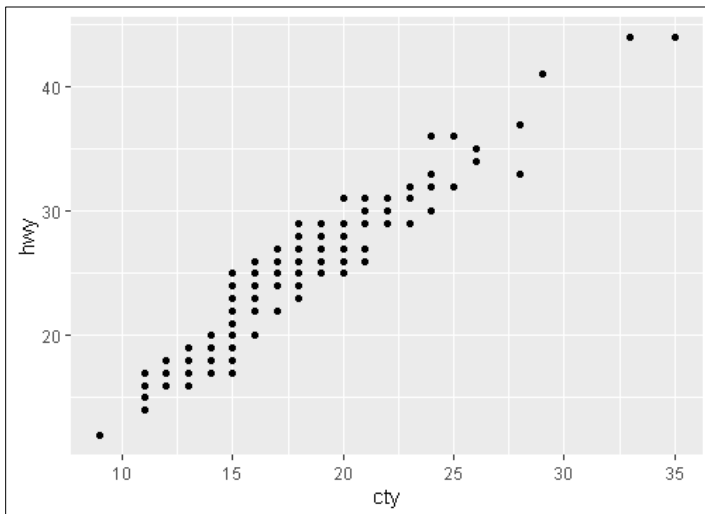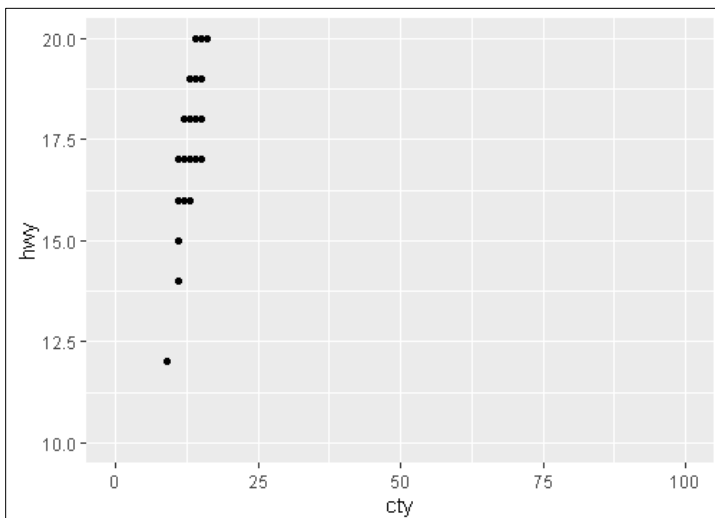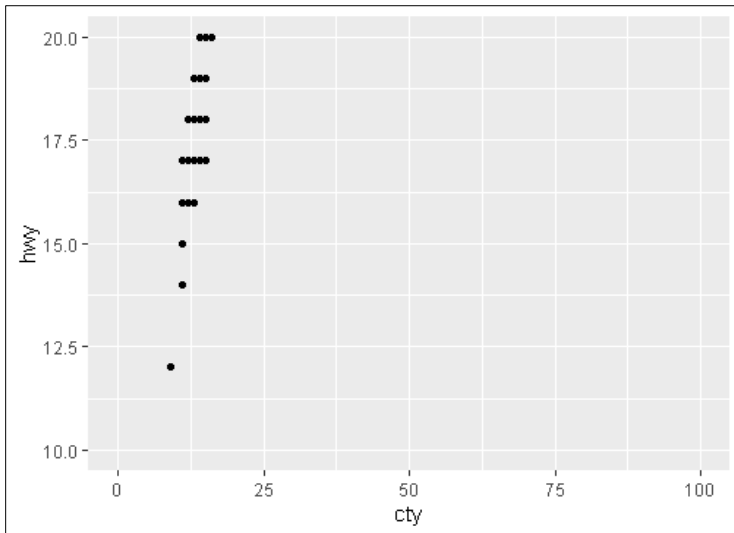

Legends

1. theme

2. guides

3. scale_fill_discrete

Zooming

1. coord_cartesian

2. xlim

3. scale_x_continuous