

## Aesthetics for ggvis

As with all graphics there are a number of aesthetics we can set

- ▶ stroke
- ▶ fill
- ▶ size
- ▶ opacity

## Changing Aesthetics based on variables

- ▶ In ggvis we map a variable to a property using =
- ▶ We have to remember to use the "~" with all variable names
- ▶ `fill = ~ Line` would set the fill based on the Line variable

```
tubeData %>%  
  ggvis(x = ~Month, y = ~Excess, fill = ~Type)  
  layer_points()
```

## Aesthetics: Setting property values

- ▶ When we set a property based on a value we use  
" :="
- ▶ `fill := "red"` would set the fill to red

```
tubeData %>%
  ggvis(x = ~Month, y = ~Excess,
        fill := "orange",
        opacity := 0.6) %>%
  layer_points()
```

## Exercises

- ▶ Create a plot of mpg against wt using the mtcars data
- ▶ Update the plot to colour by the cylinder variable, ensure that the points are coloured by distinct colours rather than on a scale
- ▶ Update the plotting symbol to be triangles