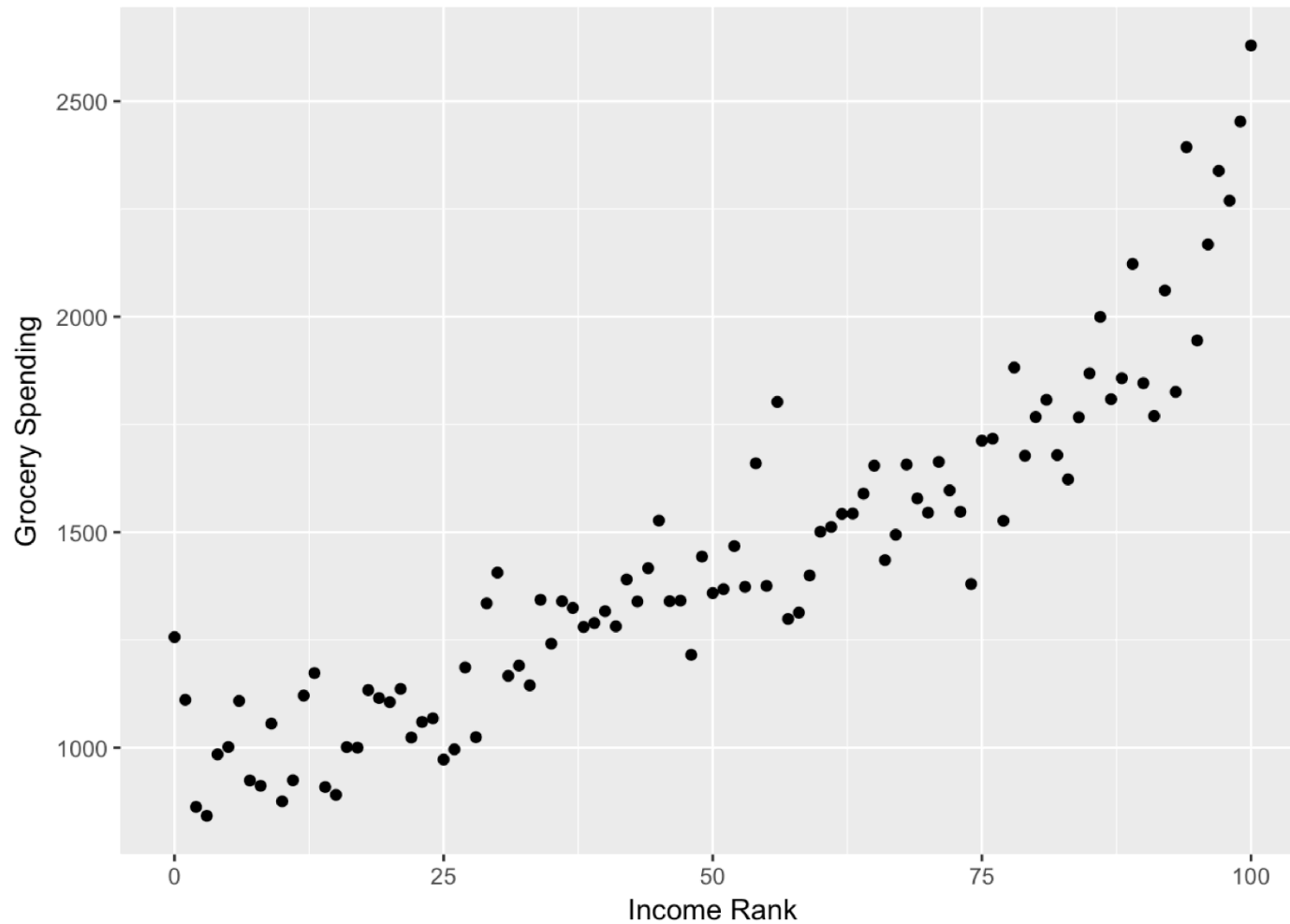




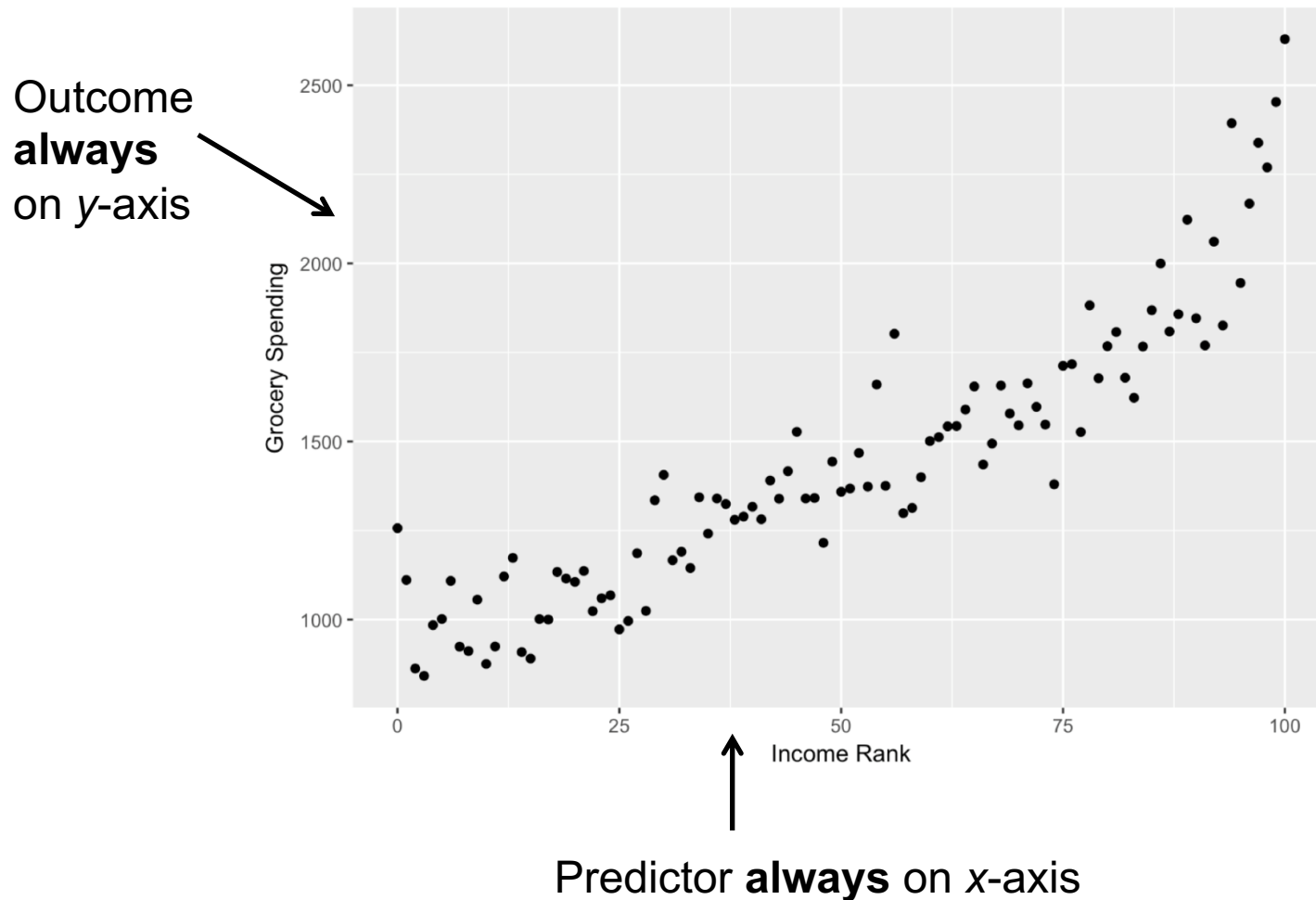
Introduction to Scatterplots

Will Doyle

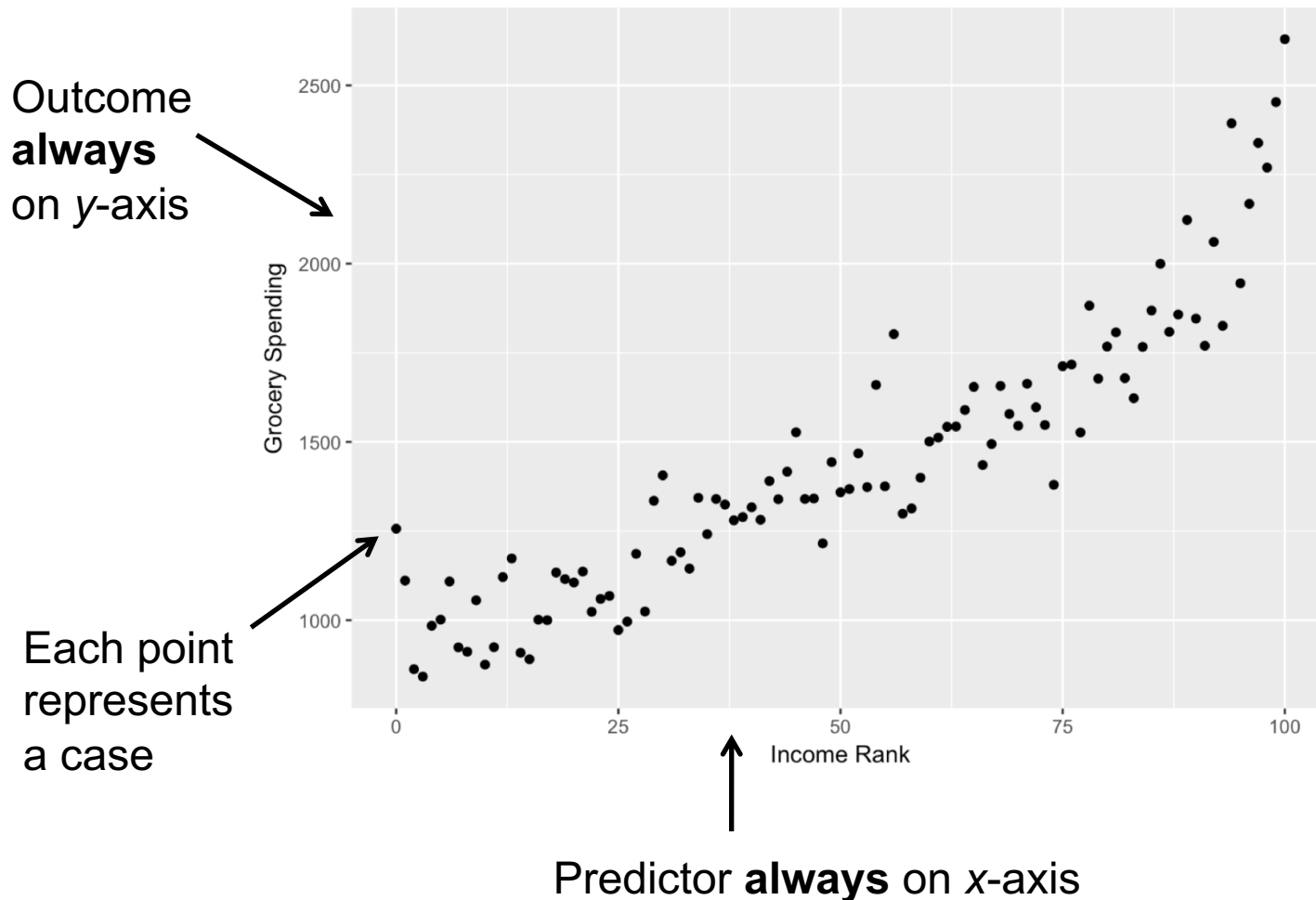
Scatterplots: Source of All Wisdom



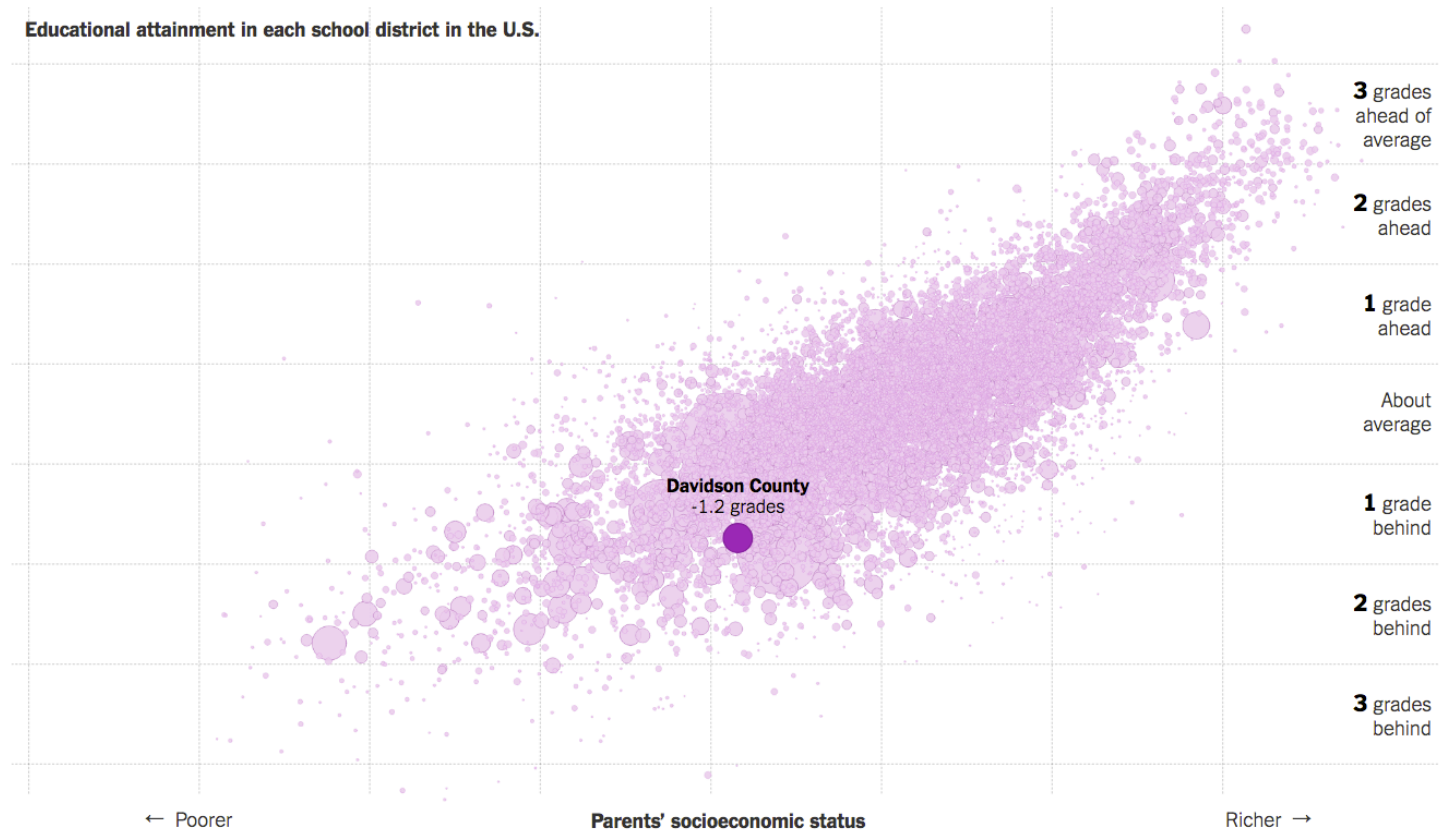
Scatterplots: Source of All Wisdom



Scatterplots: Source of All Wisdom

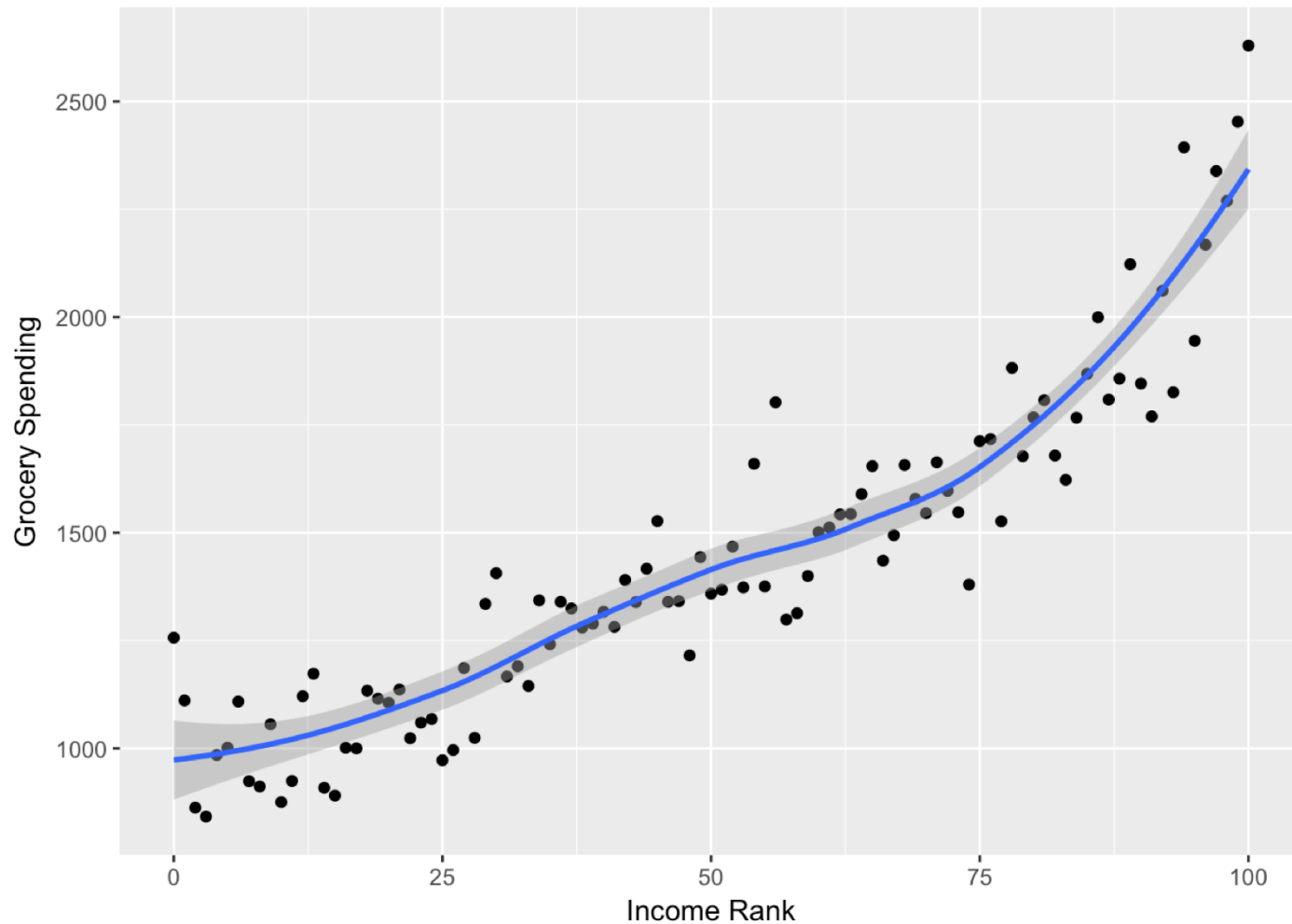


Scatterplot Example

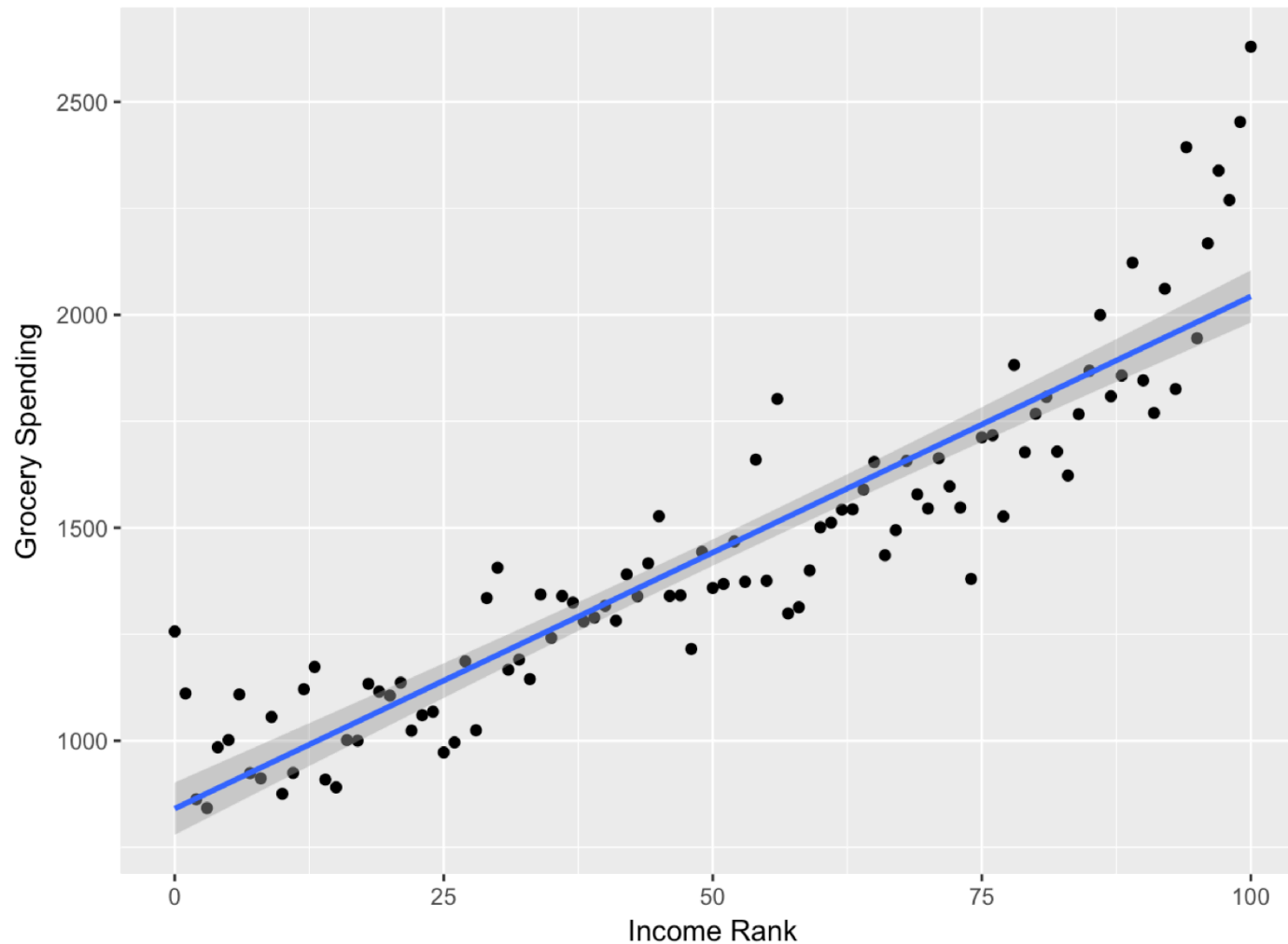


Source: <https://www.nytimes.com/interactive/2016/04/29/upshot/money-race-and-success-how-your-school-district-compares.html>

Scatterplots: LOESS Line



Scatterplots: Linear Regression Line





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Review and Summary

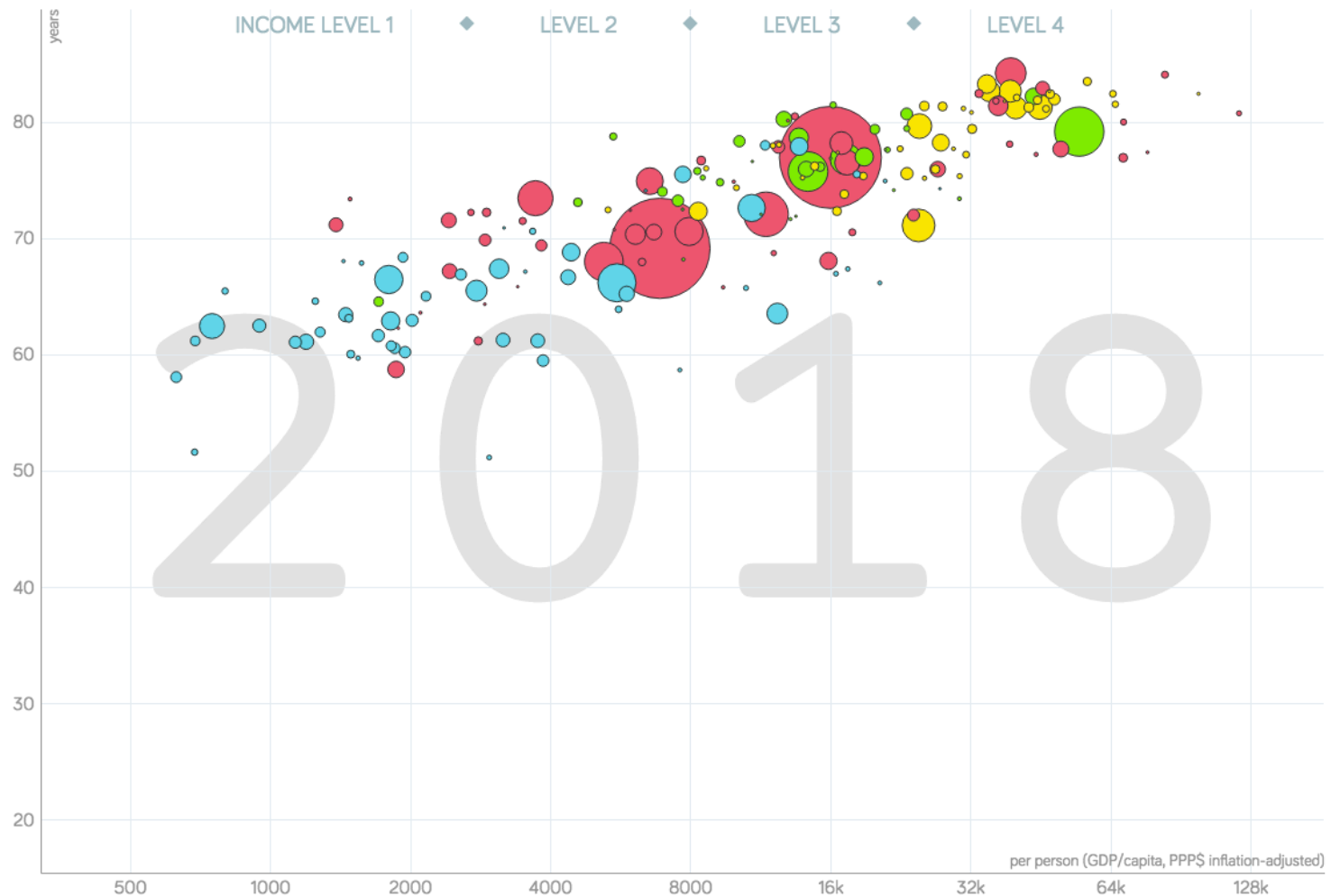
Scatterplots

Will Doyle

Scatterplot Options

- Size of markers
- Shape of markers
- Color of markers
- Transparency of markers
- Overlays: LOESS, linear, and so on
- Interactivity

Example: GapMinder



Source: [https://www.gapminder.org/tools/#\\$chart-type=bubbles](https://www.gapminder.org/tools/#$chart-type=bubbles)

Another Example: Radiant

Datasets:
diamonds ▼
☐ Filter data
Create plot

Plot-type:
Scatter ▼

Number of data points plotted:
1,000 ▼

Y-variable:
price (integer)
carat (numeric)
depth (numeric)
cut (factor)

X-variable:
price (integer)
carat (numeric)
clarity (factor)
cut (factor)

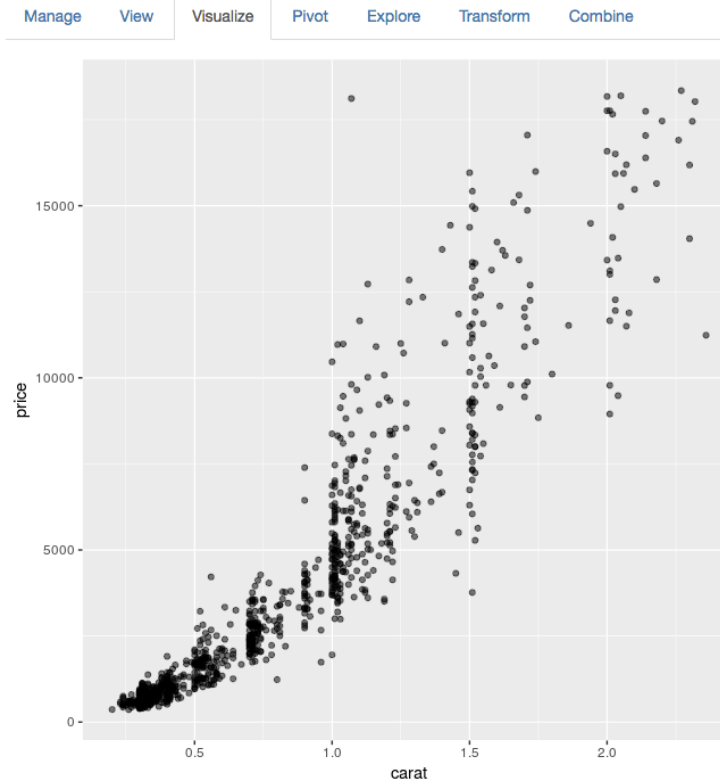
Facet row
None ▼

Facet column
None ▼

Color
None ▼

Size
None ▼

☐ Line ☐ Loess ☐ Jitter
☐ Flip ☐ Log X ☐ Log Y



Things to Think About

- Scale of variables
- Similarity/dissimilarity of units
- Overplotting: too much data
- When to use faceting
- Explanations for broader audiences



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