

Relationships between continuous variables

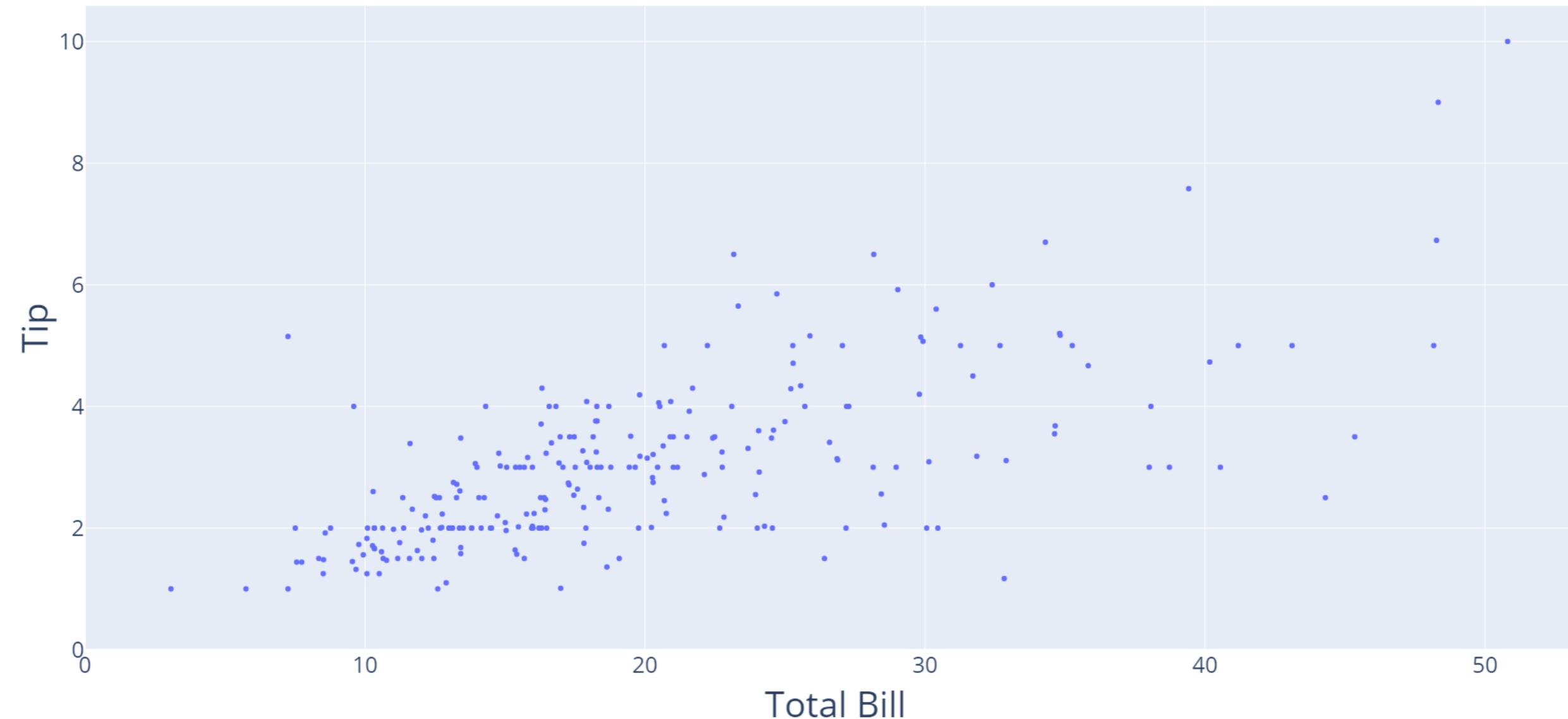
EXPLORATORY DATA ANALYSIS IN POWER BI



Maarten Van den Broeck
Content Developer at DataCamp

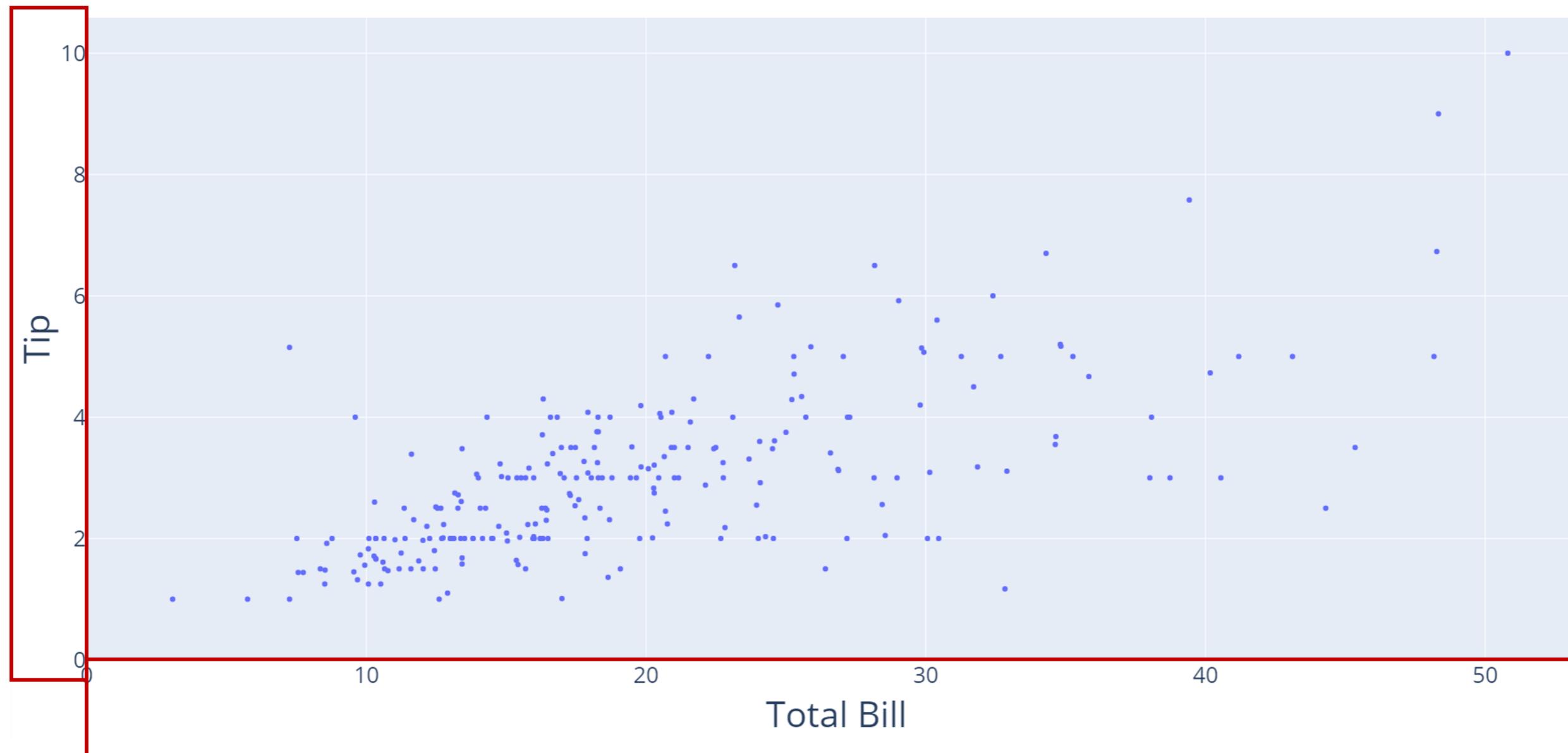
What are scatter plots?

Tip Amount vs. Total Bill



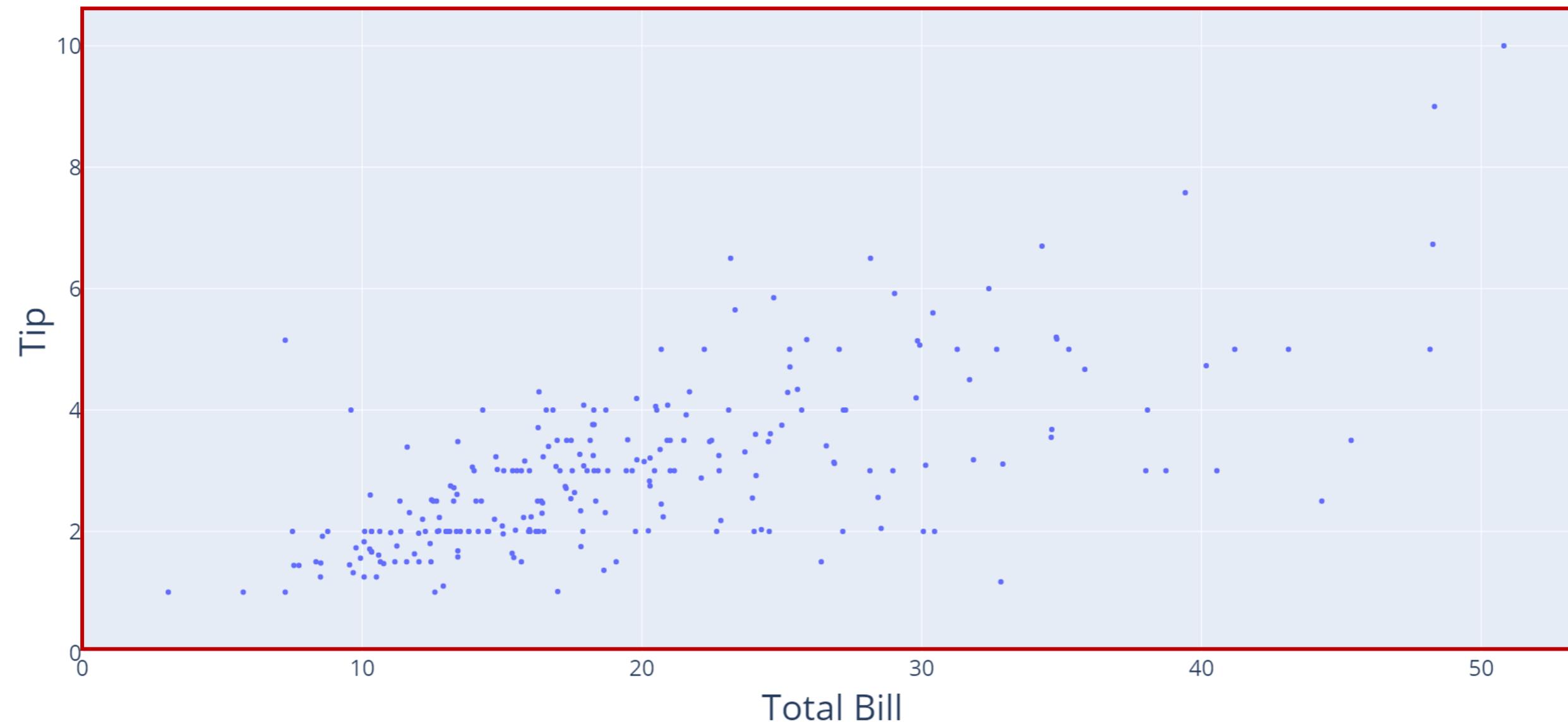
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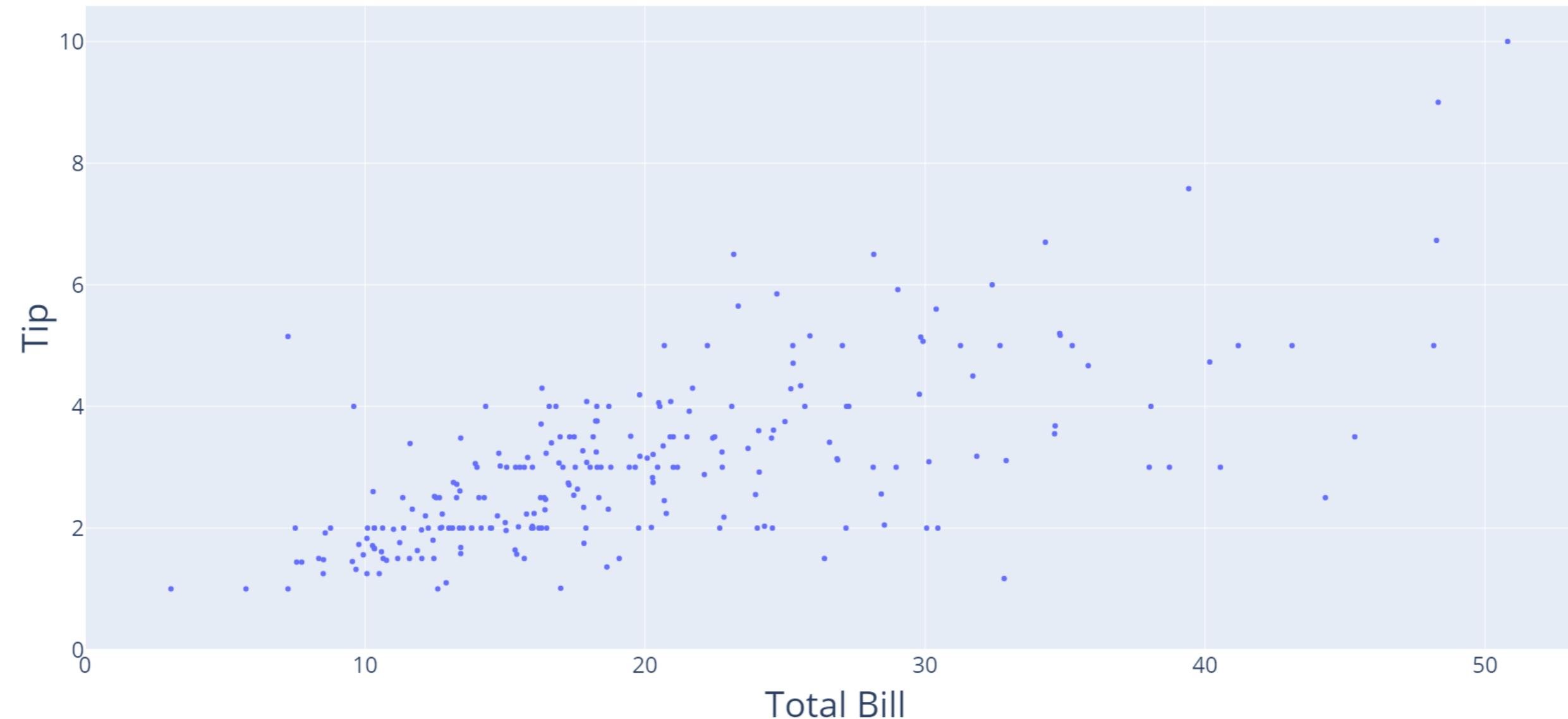
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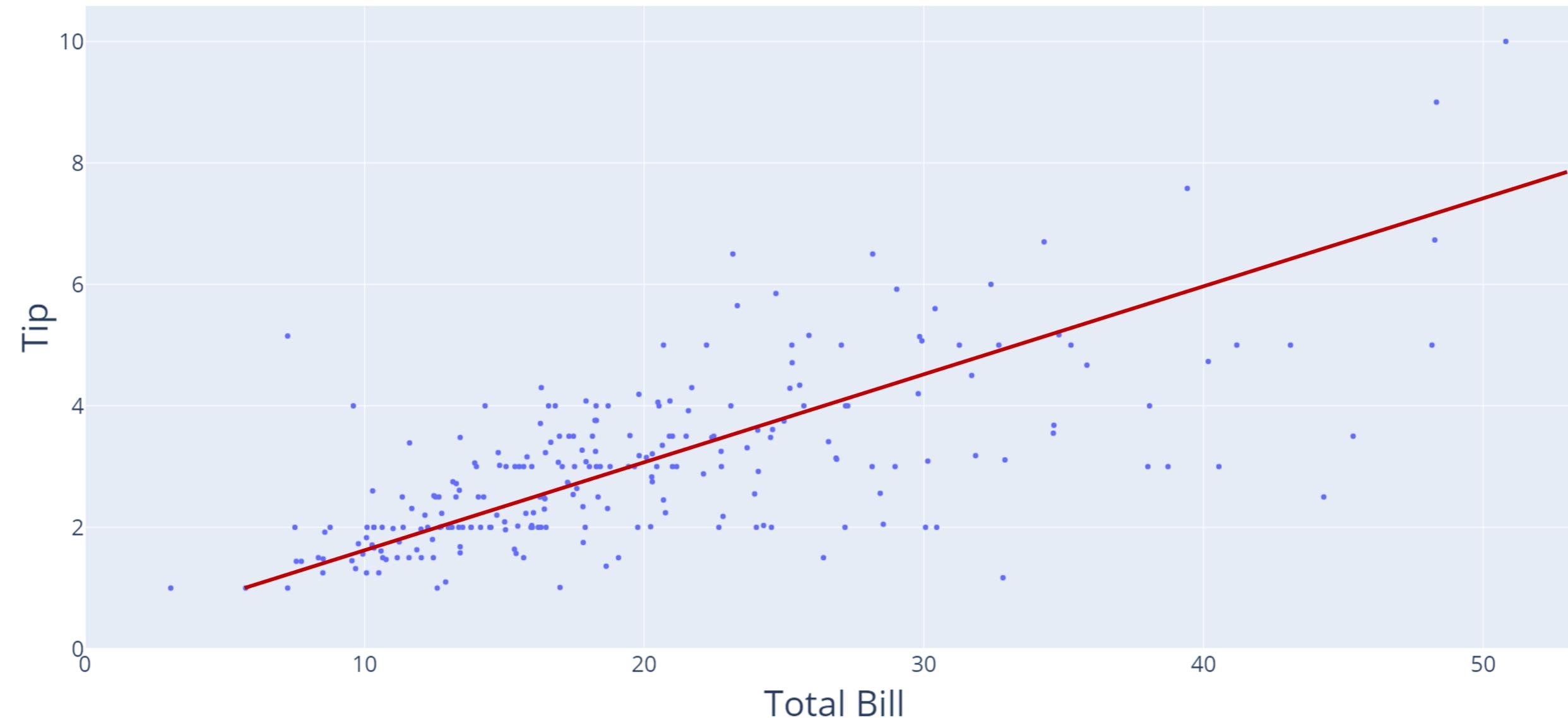
Interpreting a scatter plot

Tip Amount vs. Total Bill



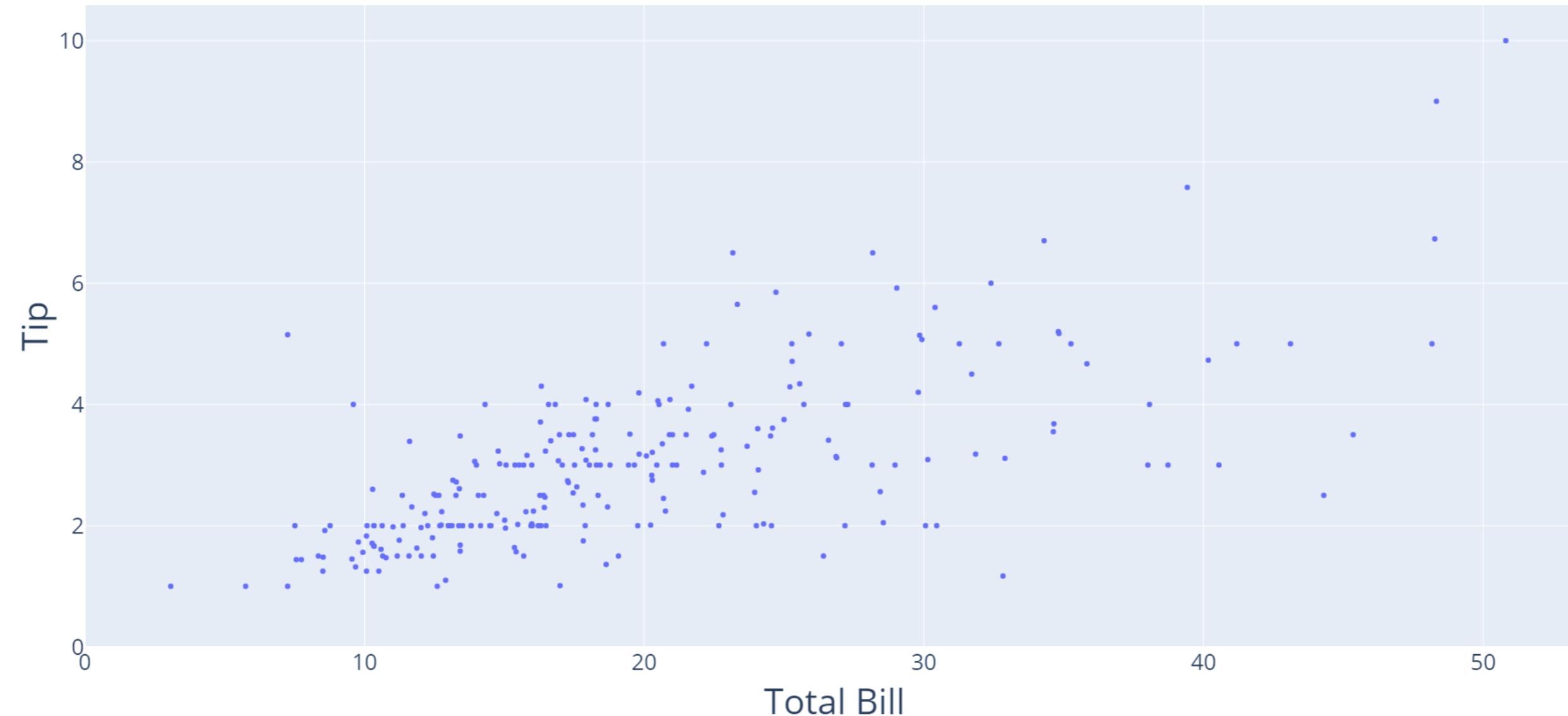
Interpreting a scatter plot

Tip Amount vs. Total Bill



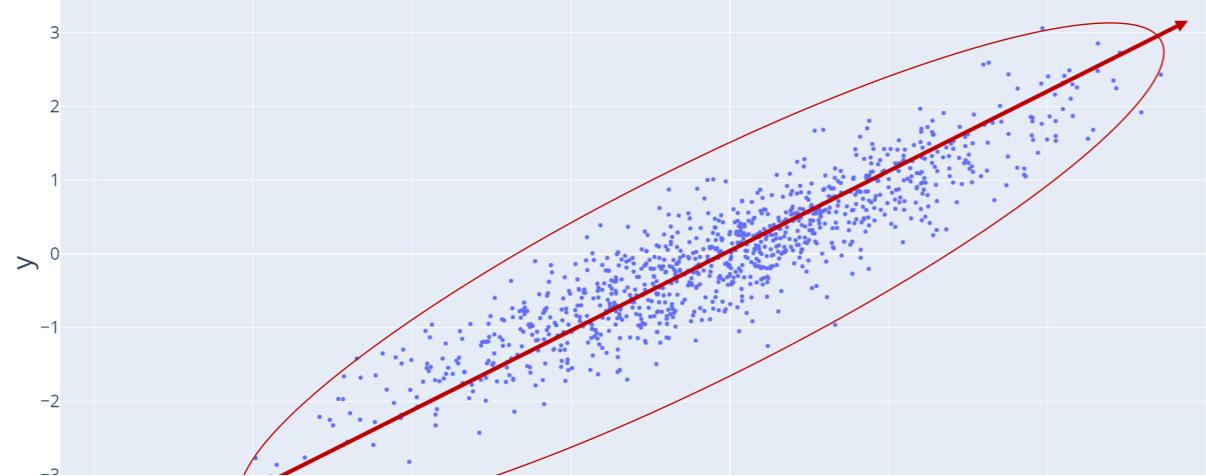
Interpreting a scatter plot

Tip Amount vs. Total Bill

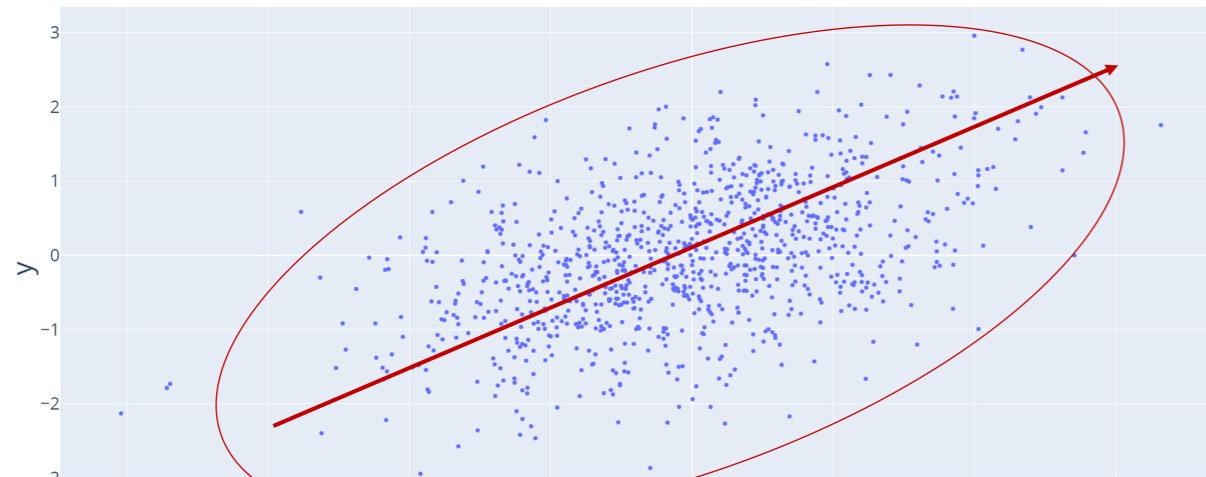


Interpreting a scatter plot

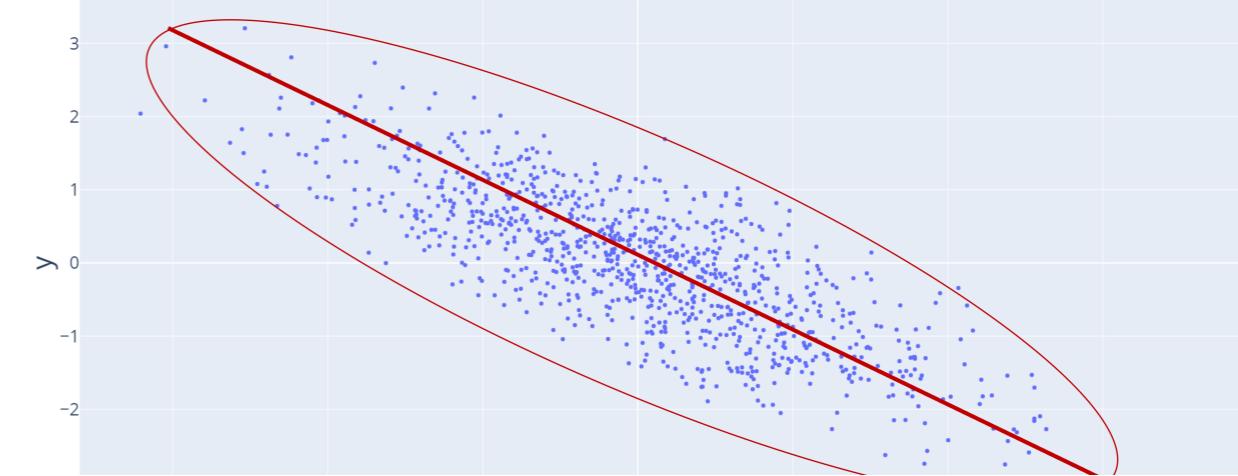
Strong-positive



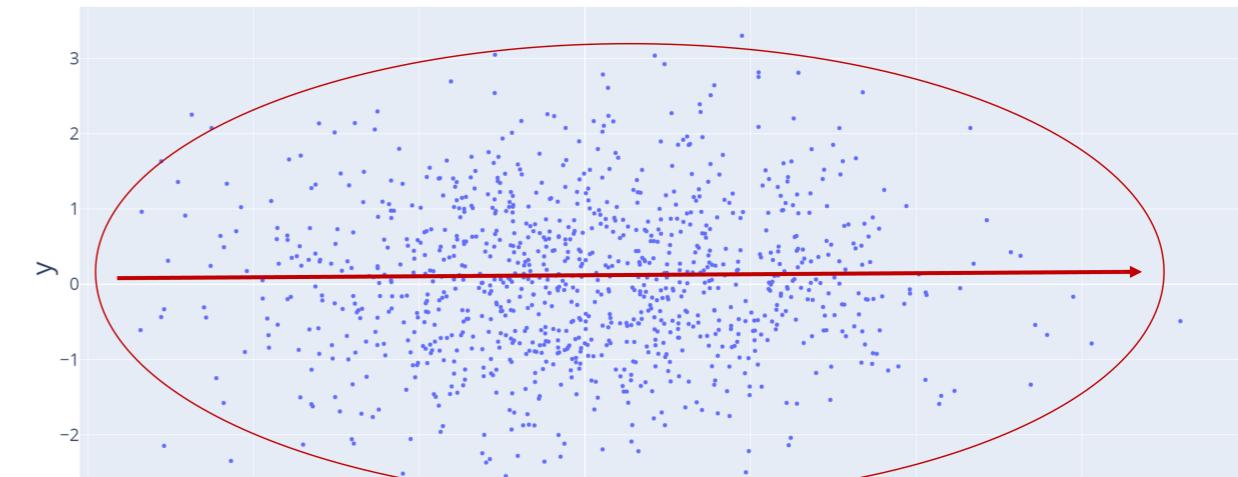
Weak-positive



Strong-negative



No relationship



Correlation coefficient

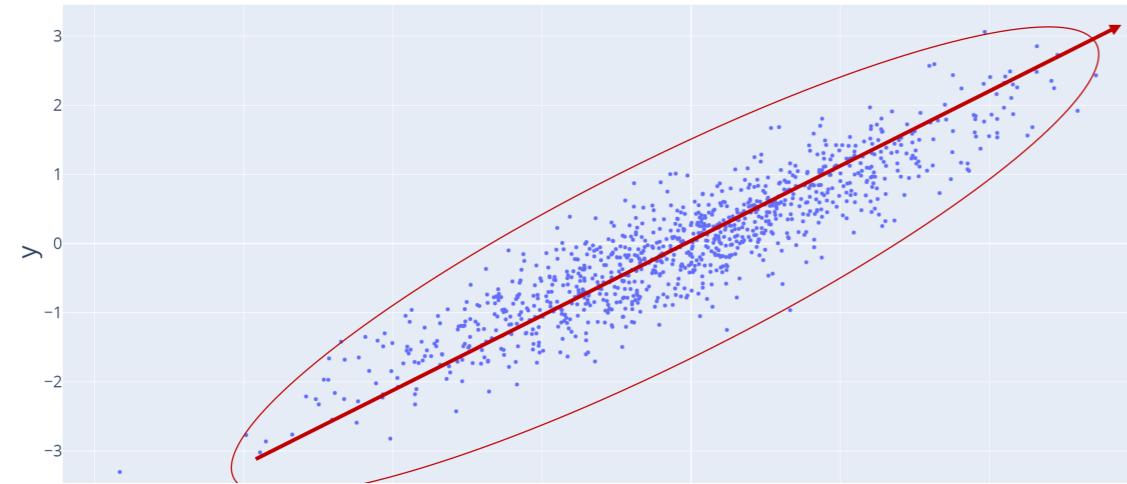
- Used to quantify the relationship
- Represented by the letter, r

$r =$	Relationship description
-1	Strong-negative
0	No relationship
1	Strong-positive

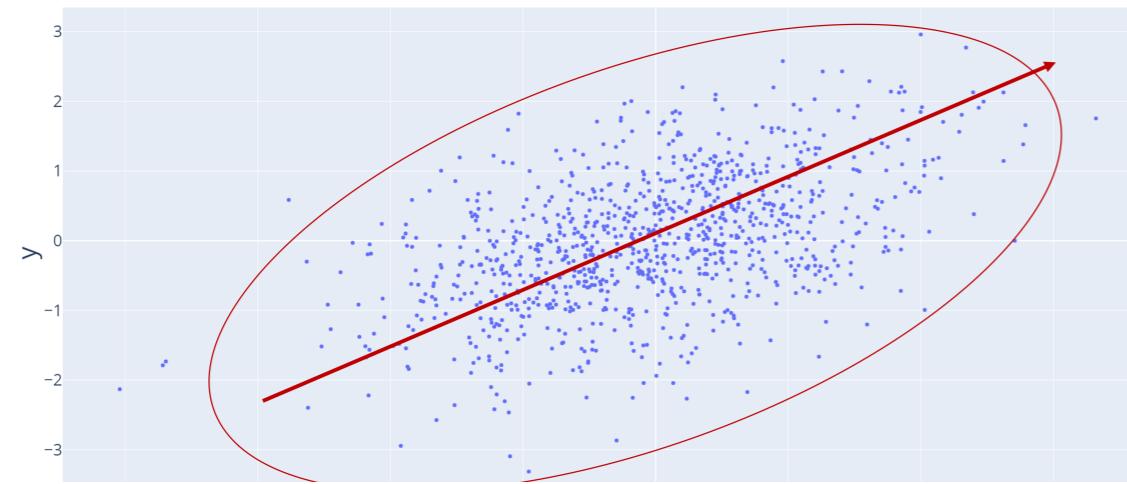
Calculating the correlation coefficient is beyond the scope of this course

Correlation coefficient and scatter plots

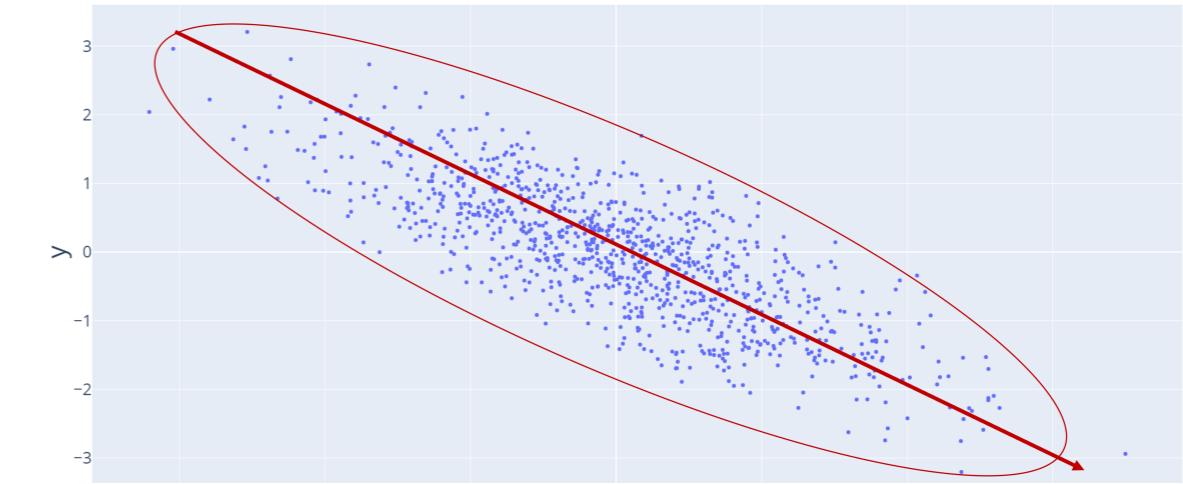
Strong-positive $r=0.9$



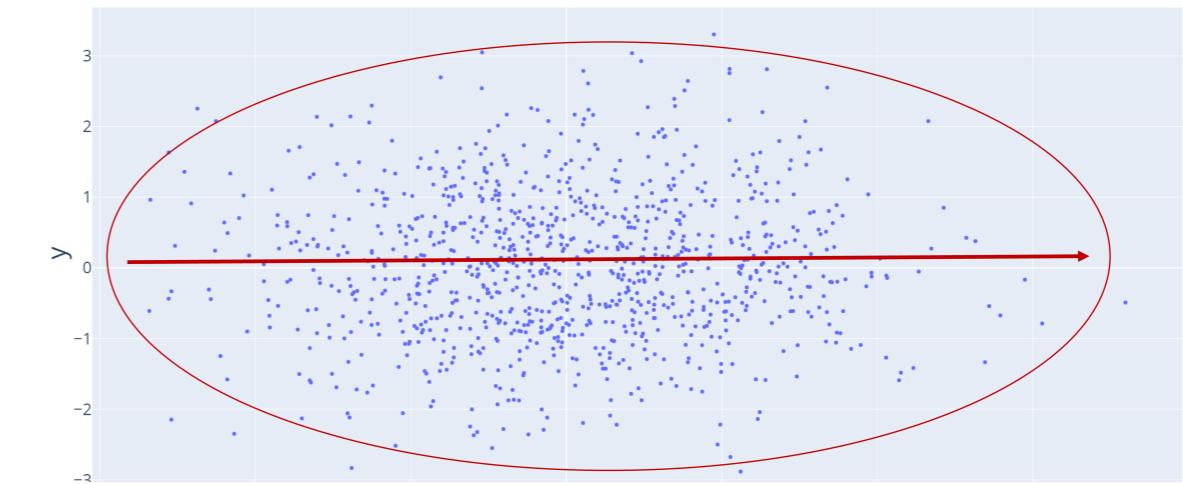
Weak-positive $r=0.35$



Strong-negative $r=-0.9$

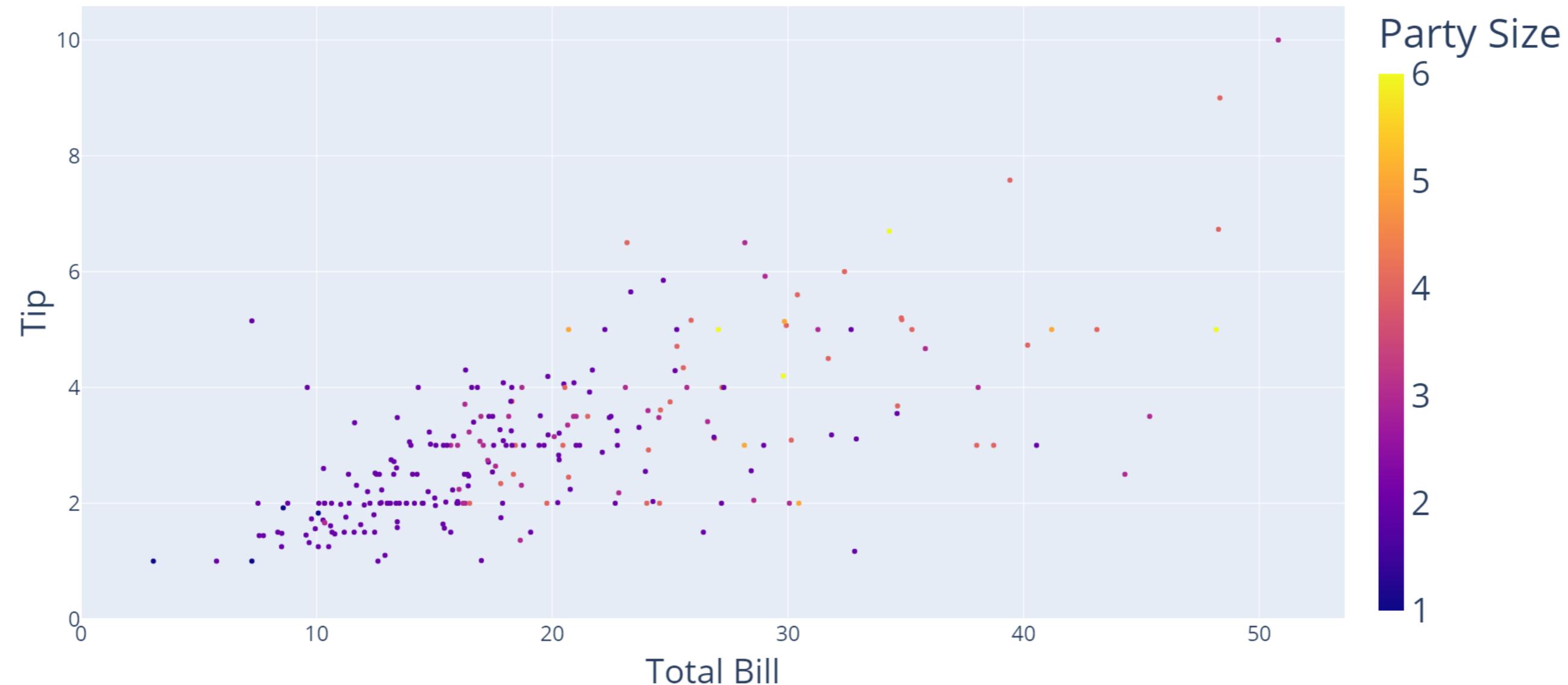


No relationship $r=0.0$



Adding context to a scatter plot

Tip Amount vs. Total Bill



Let's practice!

EXPLORATORY DATA ANALYSIS IN POWER BI

Exploring AirBnB listings with scatter plots

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Let's practice!

EXPLORATORY DATA ANALYSIS IN POWER BI

Congratulations!

EXPLORATORY DATA ANALYSIS IN POWER BI



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Your first steps with EDA

- Identifying and imputation of missing data
- Address outliers
- EDA with categorical variables
- EDA with continuous variables
- Histograms
- Box plots
- Scatter plots

What's next?

- Trend Analysis in Power BI
 - Time series
 - Decomposition trees
 - Key influencers

Let's practice!

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