

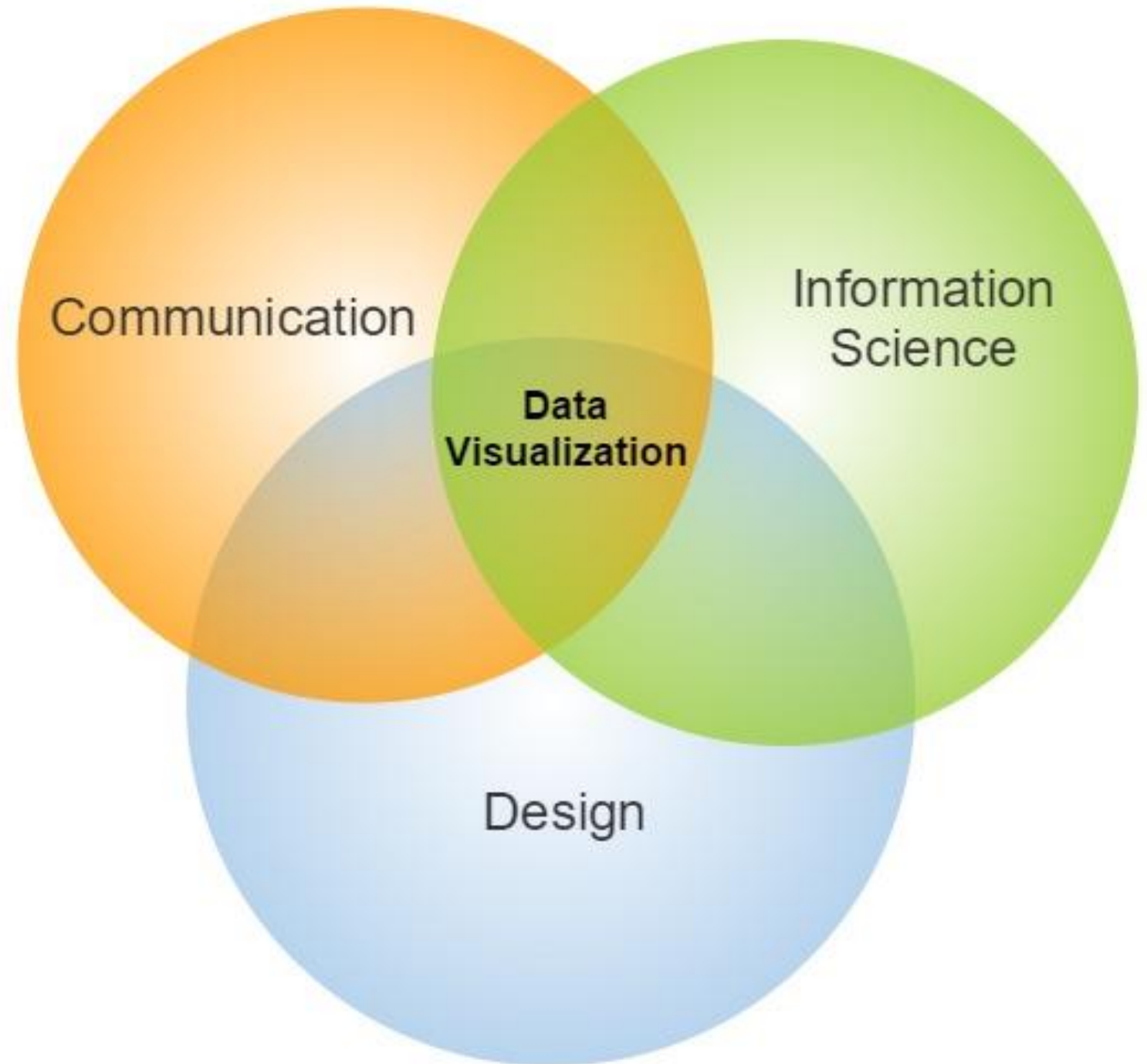
# An Introduction to Data Visualization with Tableau

Tony Nguyen, MLIS, AHIP

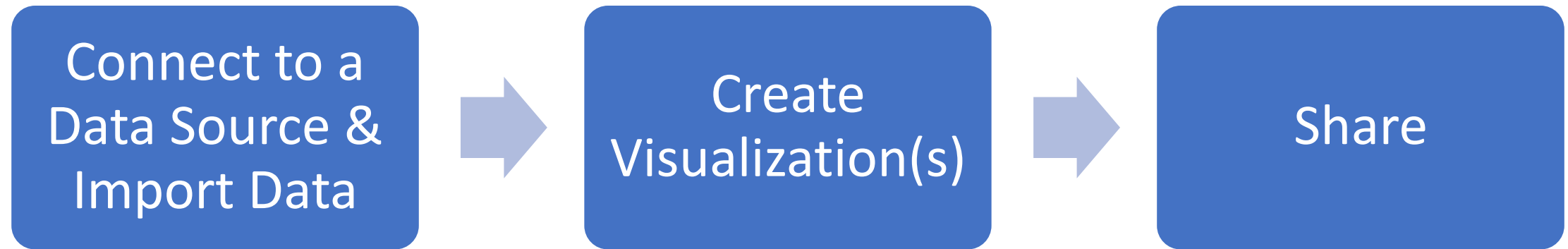
Technology and Communications Coordinator

# What is Data Visualization?

Image Credit: <https://www.seas.harvard.edu/sites/default/files/images/news/visualizations.jpg>



# Build with a Few Clicks



# Tableau Public

- Create a Free Account
- 10 GB Available for Visualizations



## Tableau Desktop

Personal  
Edition

\$35

USD/user/month  
(billed annually)

START FREE TRIAL

Explore and analyze data with  
advanced analytics

Connect to **files** like Excel and  
Google Sheets

Create visualizations, dashboards,  
and stories

[LEARN MORE](#) →

Professional  
Edition

\$70

USD/user/month  
(billed annually)

START FREE TRIAL

Explore and analyze data with  
advanced analytics

Connect to hundreds of data  
sources—from files to databases,  
web applications, **and more**

Create visualizations, dashboards,  
and stories

Publish workbooks and data  
sources to Tableau Server and  
Tableau Online

[LEARN MORE](#) →

## Tableau Server

On-Premises or  
Public Cloud\*

\$35

USD/user/month  
(billed annually)

START FREE TRIAL

Deploy on-premises or on public  
cloud with Amazon Web Services,  
Microsoft Azure, and Google  
Cloud Platform

Centrally manage data sources  
and workbooks

Explore analytics from any  
browser or mobile device

Author in your browser and  
subscribe to workbook updates

[LEARN MORE](#) →

## Tableau Online

Fully  
Hosted\*

\$42

USD/user/month  
(billed annually)

START FREE TRIAL

Tableau Online is the SaaS form  
of Tableau Server with  
maintenance, upgrades, and  
security fully managed by  
Tableau

Centrally manage data sources  
and workbooks

Explore analytics from any  
browser or mobile device

Author on the web and subscribe  
to workbook updates

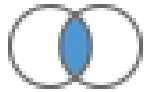
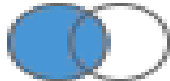


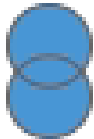
[LEARN MORE](#) →

# Hands On Demonstration

- <https://public.tableau.com/en-us/s/resources>
  - [Pokemon Index](#)
  - [Cat vs Dog Popularity in the US](#)
- NNLM Handouts: [Cool Creative Communications: Dazzling Data Visualization](#)





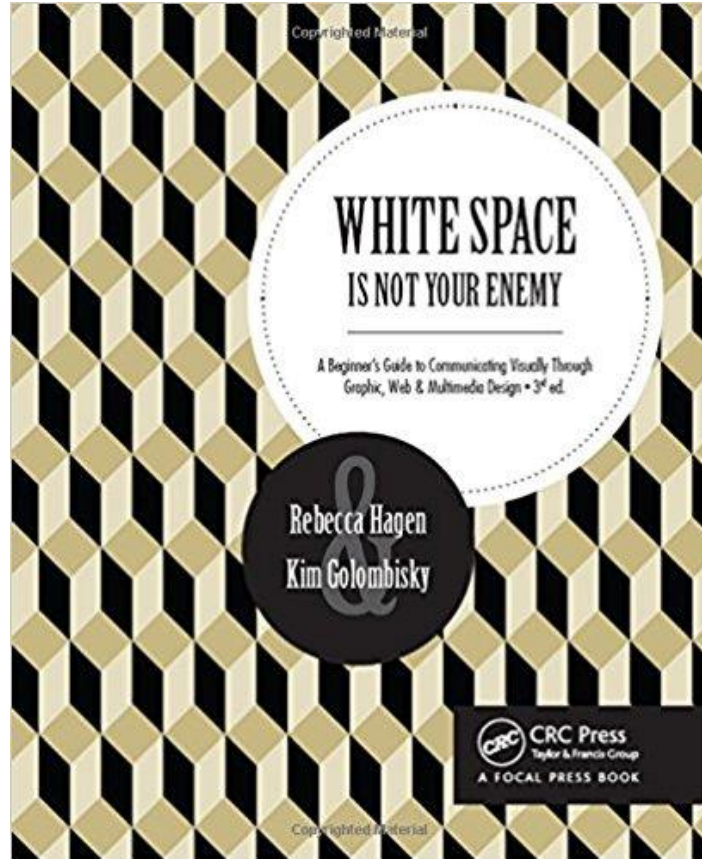
Join Type	Result	Description
Inner	When you use an inner join to combine tables, the result is a table that contains values that have matches in both tables.	
Left	<p>When you use a left join to combine tables, the result is a table that contains all values from the left table and corresponding matches from the right table.</p> <p>When a value in the left table doesn't have a corresponding match in the right table, you see a null value in the data grid.</p>	
Right	<p>When you use a right join to combine tables, the result is a table that contains all values from the right table and corresponding matches from the left table.</p> <p>When a value in the right table doesn't have a corresponding match in the left table, you see a null value in the data grid.</p>	
Full Outer	<p>When you use a full outer join to combine tables, the result is a table that contains all values from both tables.</p> <p>When a value from either table doesn't have a match with the other table, you see a null value in the data grid.</p>	
<i>Union</i>	Though union is not a type of join, union is another method for combining two or more tables by appending rows of data from one table to another. Ideally, the tables that you union have the same number of fields, and those fields have matching names and data types.	

# Continue Learning Tableau

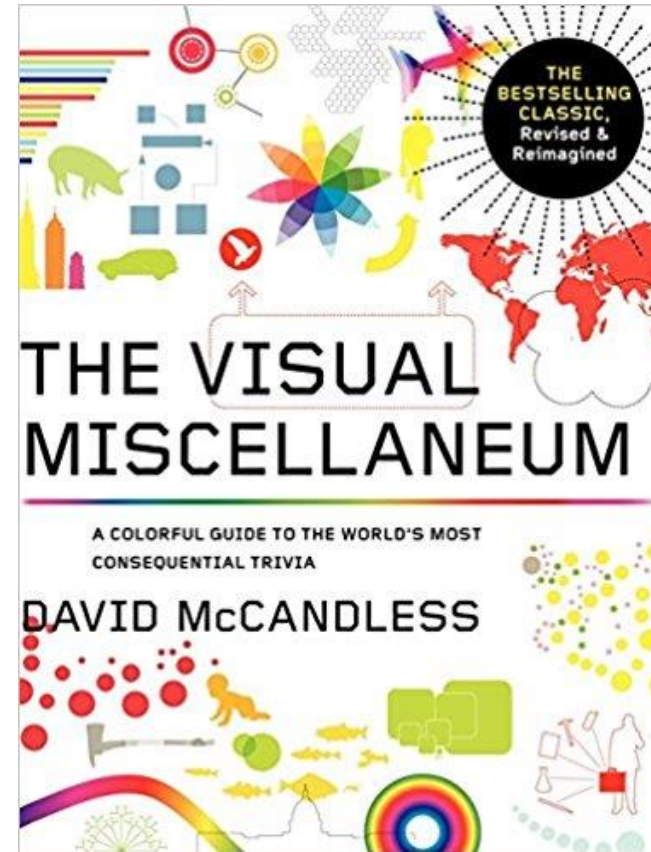
- Coursera:
  - [Data Visualization and Communication with Tableau](#) (Duke University)
  - [Data Visualization with Tableau Specialization](#) (UC Davis)
- Lynda.com:
  - [Tableau Training and Tutorials](#)
- Tableau
  - [Free Tableau Training Videos](#)
  - [Free Tableau Public Training Video and Free Live Trainings](#)

# Tableau Communities

- [Tableau Help](#)
  - [Create Custom Fields with Calculations](#)
- [Tableau Community](#)

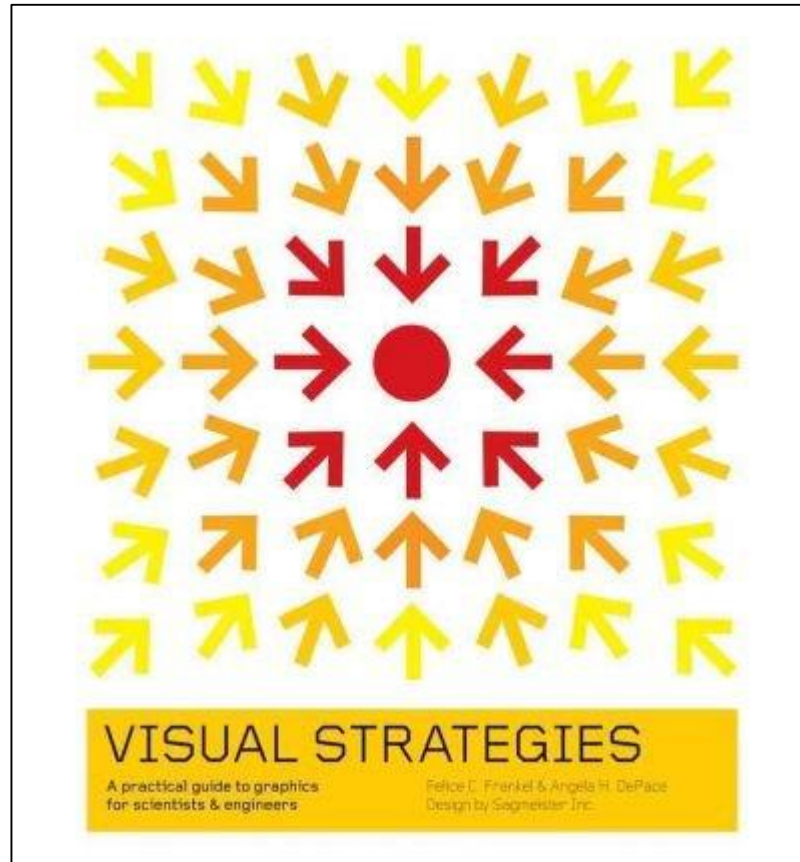


<http://www.worldcat.org/oclc/965325278>

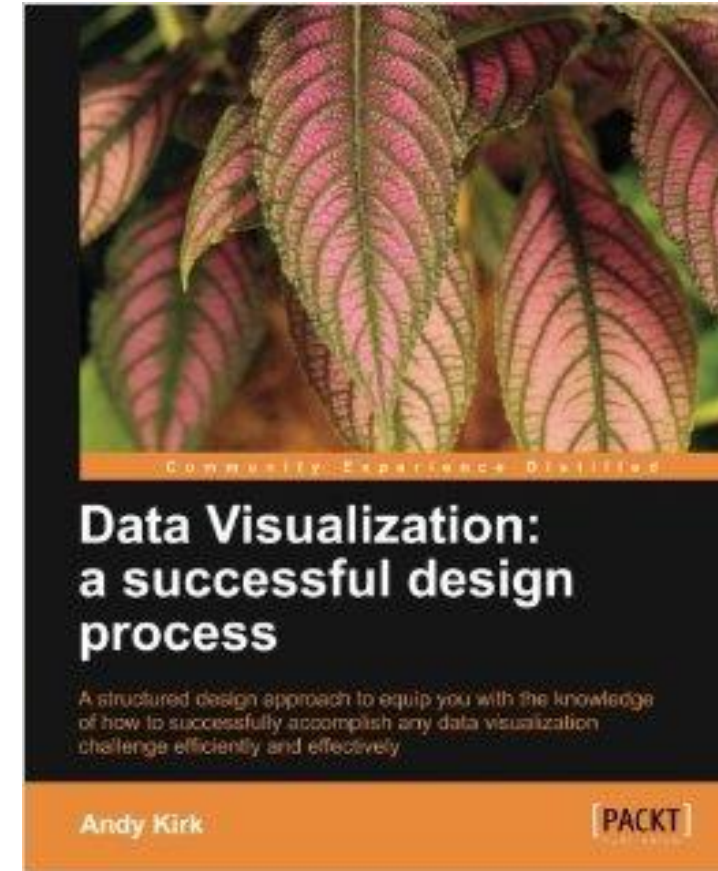


<http://www.worldcat.org/oclc/910914494>





<http://www.worldcat.org/oclc/871665104>



<http://www.worldcat.org/oclc/847034209>

# Thanks!

- Tony Nguyen, MLIS, AHIP
- 410-706-2066
- ttnguyen@hshsl.umaryland.edu