University of California
Tableau User Group (TUG)

Hosted by:
Irvin Palacios
 Agenda

✿ Welcome / Introductions
✿ Accessibility - IRAP
✿ What Shape Is Your Data?
✿ Tableau Communities
✿ Resources
✿ Q&A
What Shape Is Your Data?

- The shape & structure of your data dictates your visuals!
- Data manipulation for:

1. Sankey diagrams
2. Sunburst Visuals
3. Radial Charts

- Example
  - Wide vs. Long Data
  - Structure will vary by business question & visual
What Shape Is Your Data?

Example

- Wide vs. Long Data
  - Wide – Joining Data
    - Avoiding Many-to-Many
  - Long - Visualizing
- How can Tableau help!?
What Shape Is Your Data?

- Structure can be defined by business question.
  - Ticketing System Data
    - Q1: How many cases are over 7 days? Do these long term cases overlap? (Visual = Gantt Chart)
    - Q2: How many cases are left at the end of each day? hour? (Visual = Line Graph)
Tableau Communities

#MakeoverMonday

2018 WIND POWER IN THE UNITED STATES

INVESTMENT SUMMARY

<table>
<thead>
<tr>
<th>Region</th>
<th>Investment</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEST</td>
<td>$85.1B</td>
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<tr>
<td>EAST</td>
<td></td>
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<tr>
<td>SOUTH</td>
<td></td>
</tr>
<tr>
<td>NORTHEAST</td>
<td></td>
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</tbody>
</table>

POPULATION

<table>
<thead>
<tr>
<th>Region</th>
<th>Population</th>
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<tbody>
<tr>
<td>WEST</td>
<td>106.9M</td>
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<tr>
<td>EAST</td>
<td></td>
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<td>SOUTH</td>
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<tr>
<td>NORTHEAST</td>
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INVESTMENT PER CAPITA

<table>
<thead>
<tr>
<th>Region</th>
<th>Investment Per Capita</th>
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<tbody>
<tr>
<td>WEST</td>
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<tr>
<td>EAST</td>
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<tr>
<td>NORTHEAST</td>
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INVESTMENT PER HOME POWERED

<table>
<thead>
<tr>
<th>Region</th>
<th>Investment Per Home</th>
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<tbody>
<tr>
<td>WEST</td>
<td>$25,000</td>
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<td>$15,000</td>
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<tr>
<td>NORTHEAST</td>
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</table>

Source: U.S. Energy Information Administration
Tableau Communities

#VizforSocialGood

Chloe Tseng
@datachlo
Currently @StanfordGSB • Previously Data Science @Twitter • Founded #VizforSocialGood
Tableau Communities

#SportsVizSundays

James Smith
@sportschord
Visualising sports data. Focus on Football
and formula 1. Sports Prints available on Etsy site, Tableau, Published Author & R User. 1/3 of ...

Spencer Baucke
@SBaucke
@AskTessellation | tessellationtech.io | Co-founder #SportsVizSunday | SpencerBaucke.com | Tableau Featured Author | Cincinnati...

Simon Beaumont
@SimonBeaumont04
JLL Global BI Co Director | Tableau Zen Master & Ambassador | Tableau Desktop Certified | Co-leads #SportsVizSunday ...

NFL Combine
Combine Events History 1997-2019

40 Yard Dash
4.73
2018 AVG

3 Cone Drill
7.17
2018 AVG

60 Yard Shuttle
11.66
2018 AVG

Bench Press
19.46
2018 AVG

Vertical Leap
32.8
2018 AVG

Broad Jump
116.2
2018 AVG

Alpine Skiing Top 10 Countries
Ranked by Number of Race Wins per Season

25 Years of UEFA Champions League

How to read: 1990-1999

European UCL Champions 1990-1999

Data from: http://www.eufa.com
Tableau Resources

❖ Tableau Blogs
  ❖ InterWorks Blog
    ❖ https://www.interworks.com/blog
  ❖ Evolytics Blog
    ❖ https://www.evolytics.com/blog

❖ Data Set Resources
  ❖ Data.World
    ❖ https://data.world
  ❖ Kaggle
    ❖ https://www.kaggle.com

❖ Tableau Communities
  ❖ Makeover Monday
    ❖ http://www.makeovermonday.co.uk/data/
  ❖ Workout Wednesday
    ❖ http://www.vizwiz.com/p/workout-wednesday.html
  ❖ Sports Viz Sundays
    ❖ https://data.world/sportsvizsunday
  ❖ Data For A Cause
    ❖ https://twitter.com/dataforacause
  ❖ Viz For Social Good
    ❖ https://twitter.com/hashtag/VizForSocialGood?src=hash
“Our whole platform was not designed with accessibility in mind, so the things that we’ve done we’ve had to go in and retrofit and it’s way harder to do that after the fact.”

– Kyle Gupton, Director of Product Management, Tableau
Accessible Dashboard Elements

- Workbook tabs
- Dashboard Titles
- Views (graphics)
  - Title
  - View window data
  - Captions
- List and Dropdown Filters
- Categorical Legends
- Text Objects
- Web Page Objects
- Image Objects (2018.3)
- Button Objects (2018.3)
- Toolbar

- Tooltips
- Parameters
- “Pages” Function
Accessibility Considerations for Tableau

✱ The usual:
• Color contrast
• Alternative text
• Double encoding

✱ Tableau specific:
• Dashboard-level alt text
• Non-accessible elements
• Data table accessibility
• Version control in Tableau
• Focus Order
Resources

- TC2018 Accessibility Presentation
- Tableau Best Practices for Designing Accessible Views
- Changing the focus order
- WCAG 2.0
Q&A