

Design tips for data visualizations that capture audience attention

Florian Ramseger | Tableau Public Marketing Specialist, Tableau Jonni Walker | Data Artist

Speakers

Florian Ramseger



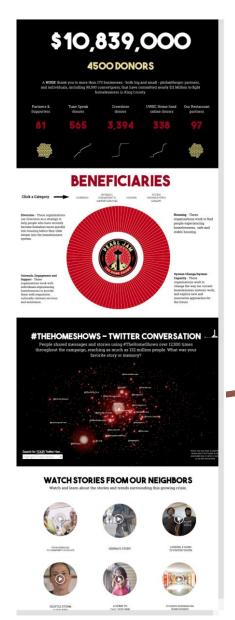
Tableau Public Marketing Specialist, Tableau

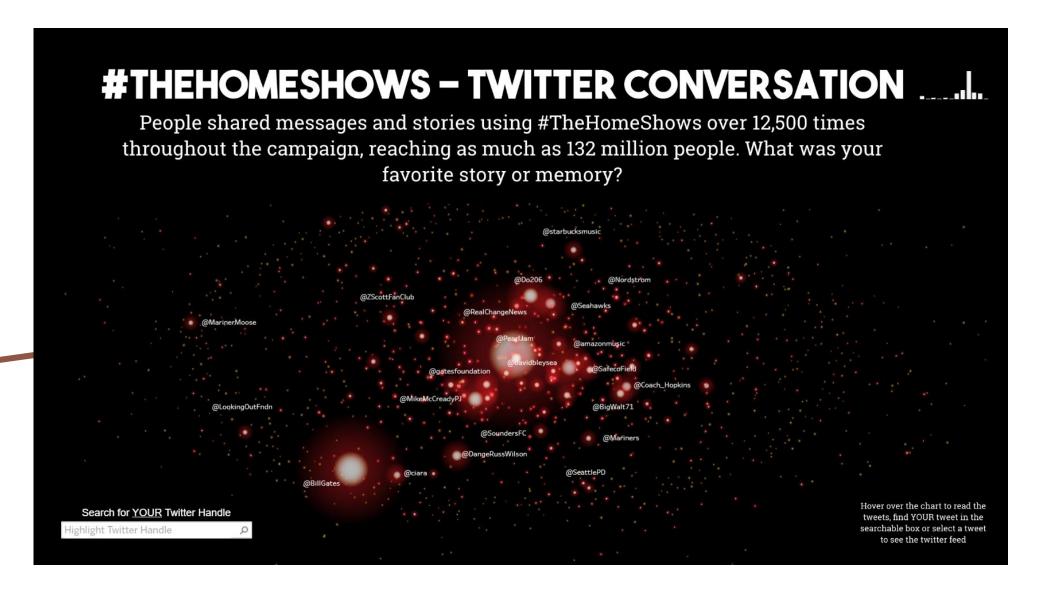
Jonni Walker



Data Artist

Pearl Jam's Campaign







Pearl Jam Web Page



THE HOME SHOWS

A HUGE thank you to the more than 170 businesses—both big and small—philanthropic partners, and individuals that have committed nearly \$11 million to fight homelessness.

Even more important is seeing our community and fans rally around this effort. Tens of thousands of you have taken action by signing up for The Home Shows mailing list, watching stories of our neighbors with lived experience with homelessness, volunteering, getting registered to vote - and voting.

And this is just the beginning. You have more influence than you think—and now is the time to use it.

Email your elected officials and let them know what you want from them. Ask your employers what they're doing on this issue. Support businesses committed to ending homelessness. Go out of your way to say "Hello" and "How can I help?" when you see a neighbor experiencing homelessness.

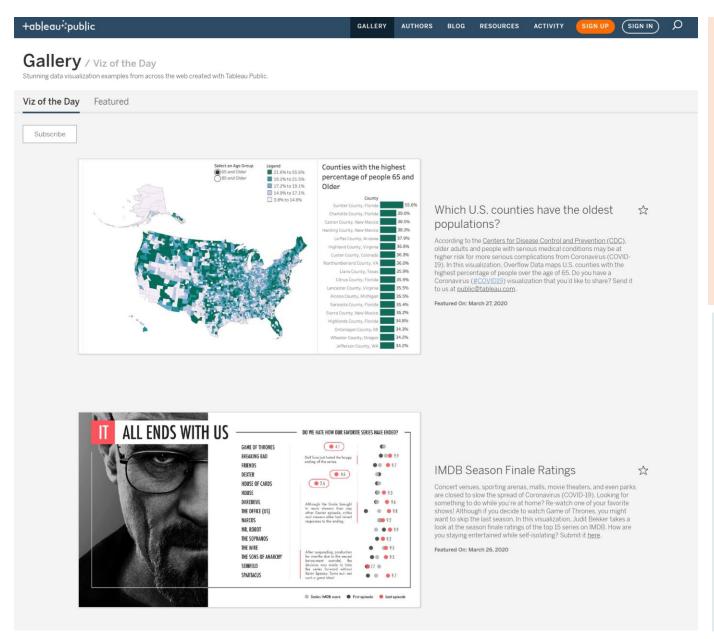
Then, keep learning, donating, volunteering, paying attention, and believing. The more than 12,000 people living on the streets of our city need us to.

- Ed, Stone, Mike, Jeff & Matt

https://pearljam.com/thehomeshows/seattle-wa



What is Tableau Public?



- Free service
- Anyone can publish interactive data visualizations to the web
- Can embed into web pages & blogs
- Shared via social media or email
- 1. Create viz in Tableau Desktop
- 2. Publish to Tableau Public (public.tableau.com)
- 3. Embed in website

Agenda

- 1. Content & Message
- 2. Form Factor & Mobile Design
- 3. Interactivity & UX
- 4. Formatting & Branding



Key Takeaways



Design considerations



Real-world examples



Project management tips



Tableau tips



1. Content & Message

Content & Message

Surveys & Opinion Polls

Side projects

Thought-leadership

PR opportunities

Open Data

Content Marketing

Social media campaigns

Statutory reporting

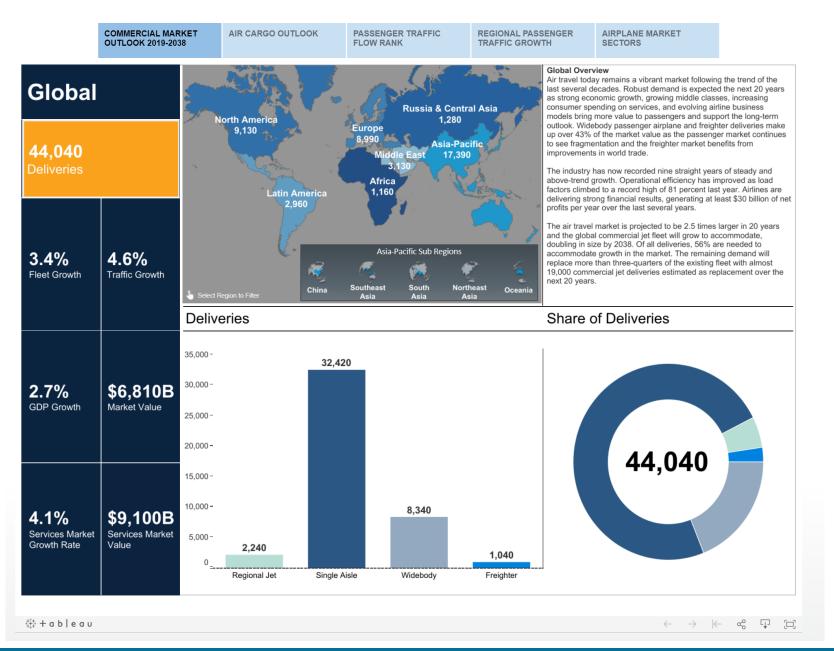
Annual Reports

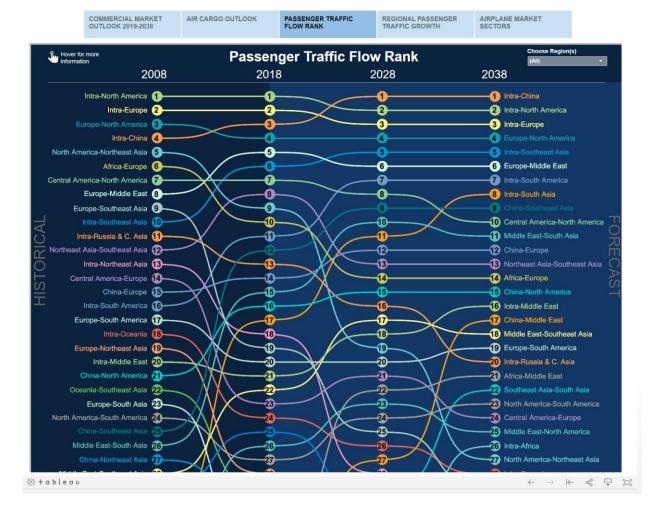
Transparency

Demonstration of skills, know-how, and tech



Boeing's Annual Report



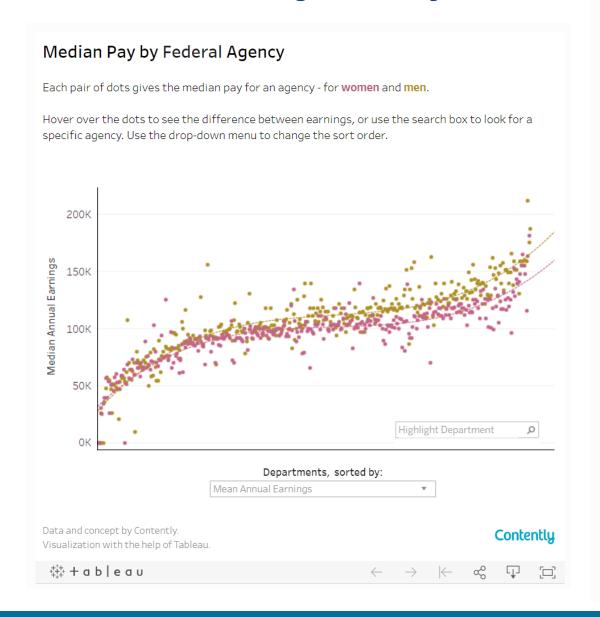


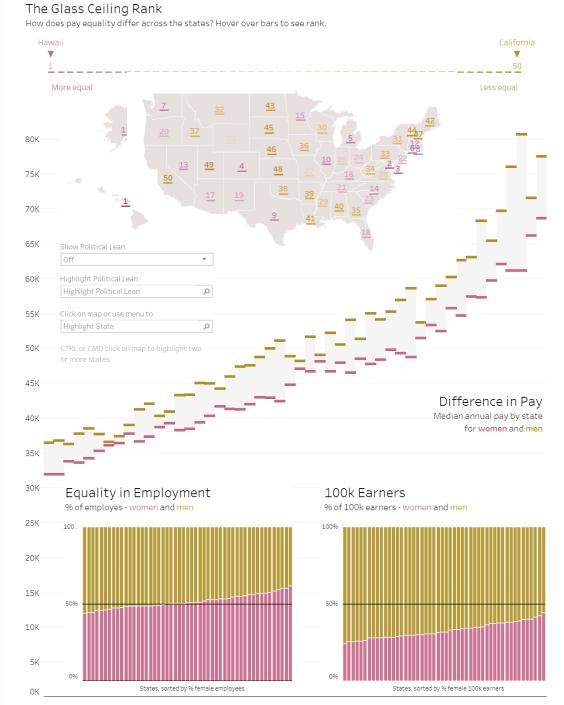
http://www.boeing.com/commercial/ market/commercial-marketoutlook/#/interactive-forecast



Hatch Institute

Government Payroll Project





https://thehatchinstitute.org/government-wage-gap-data



Content & Message



Content & Message | Key Takeaways



Design considerations

- Audience?
- Purpose?
- Message?
- Exploratory or Explanatory?
- How objective do we have to be?



Real-world examples

- Boeing Market Outlook
- Hatch Institute Pay Gap



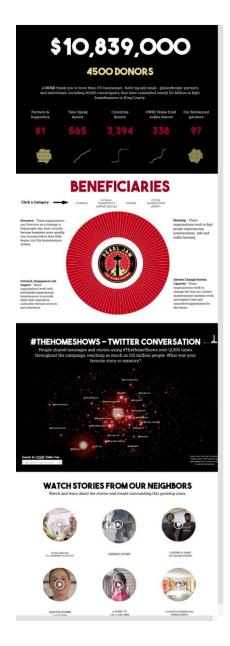
Project management tips

 Involve your PR & Social Media teams early on



2. Form Factor & Mobile Design

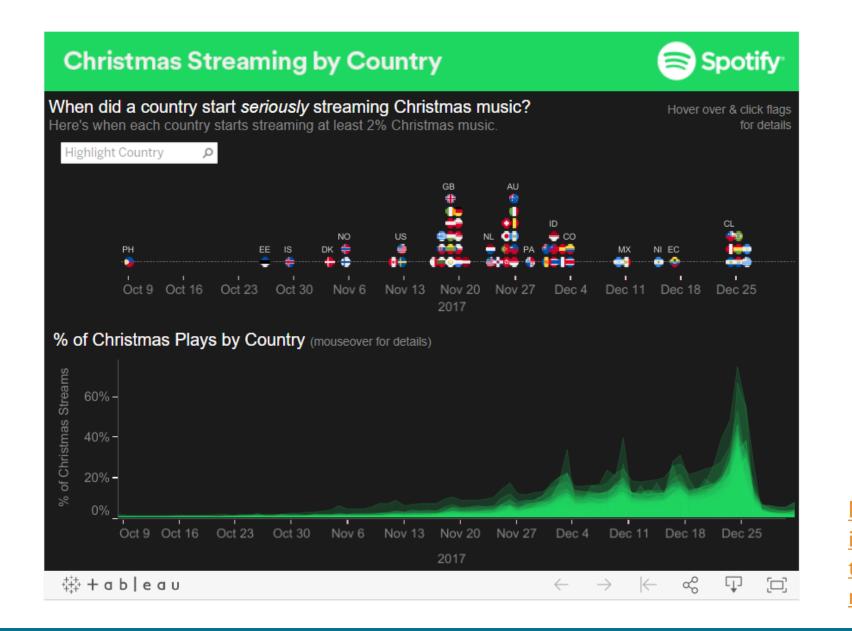
Form Factor | Long-form infographic



https://pearljam.com/thehomeshows/seattle-wa



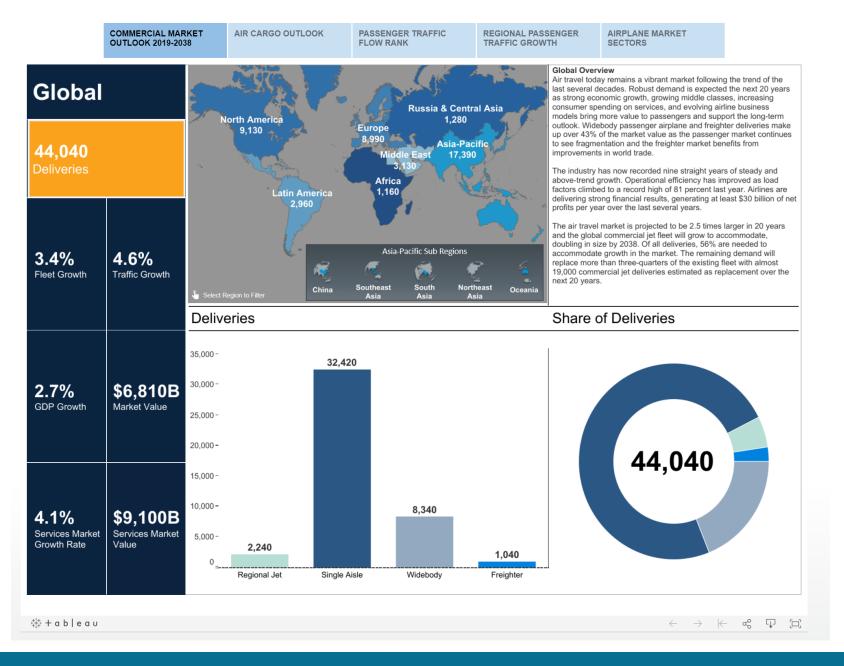
Form Factor | Mini-Dashboard



https://public.tableau.com/profile/spot ify.insights#!/vizhome/2017ChristmasS treamingTrendssmall/ChristmasStrea ming



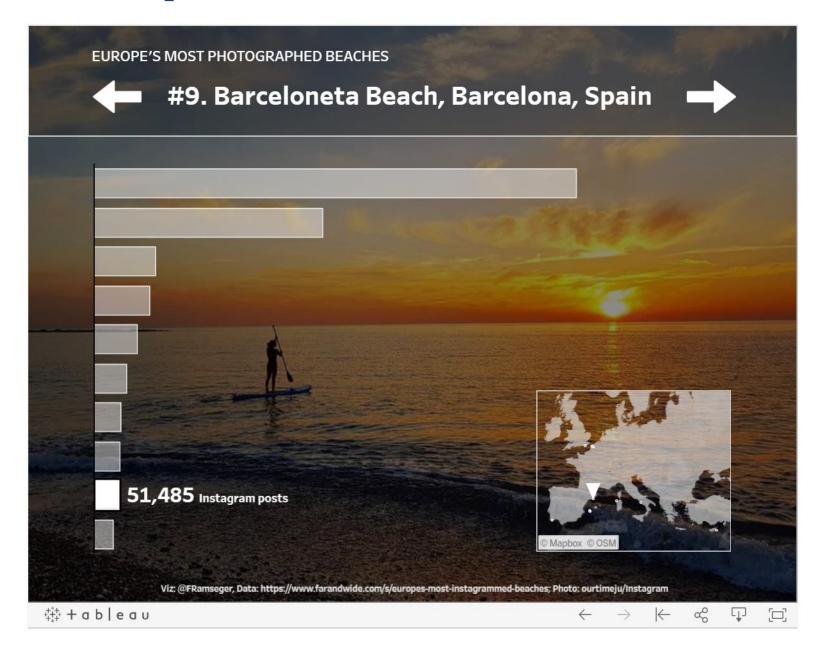
Form Factor | Story Points



http://www.boeing.com/commercial/ market/commercial-marketoutlook/#/interactive-forecast



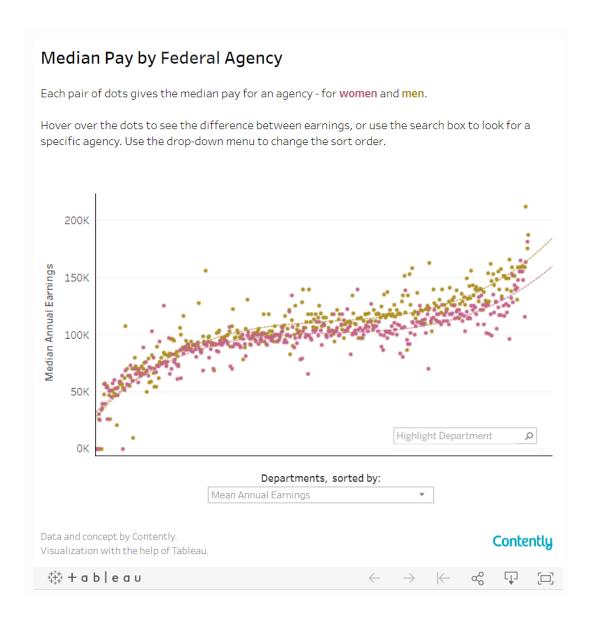
Form Factor | Navigation Buttons



https://public.tableau.com/profile/florian.ramseger#!/vizhome/MostInstagrammedBeaches/10



Form Factor | Single Chart



https://thehatchinstitute.org/government-wage-gap-data

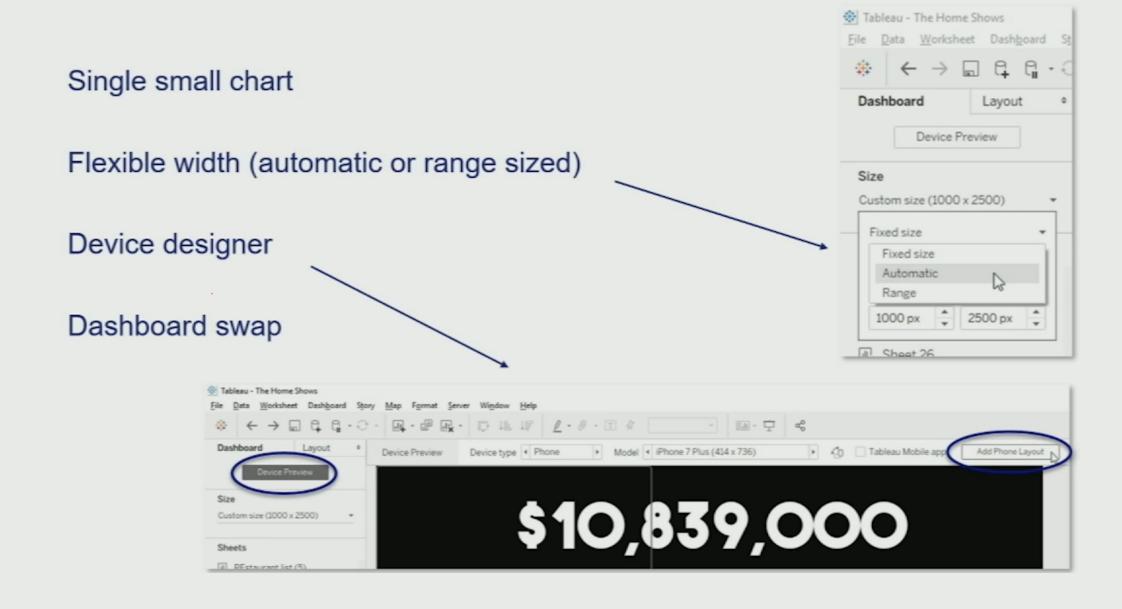


Form Factor

- Dashboards
- Story Points/Tabs/Navigation Buttons
- Long-form infographics
- "Mini dashboards"
- Individual charts



Form Factor | Designing for Mobile



Form Factor | Key Takeaways



Design considerations

- Content & available space
- Format options:
 - Dashboards
 - Stories/Tabs/Buttons
 - Long-form infographics
 - "Mini dashboards"
 - Individual charts
- Mobile design:
 - · Mobile only?
 - Automatic width
 - · Device designer



Real-world examples

- Spotify Christmas songs
- Tableau Foundation Living Report



Project management tips

- Involve your web team early on
- Don't leave mobile design as an afterthought

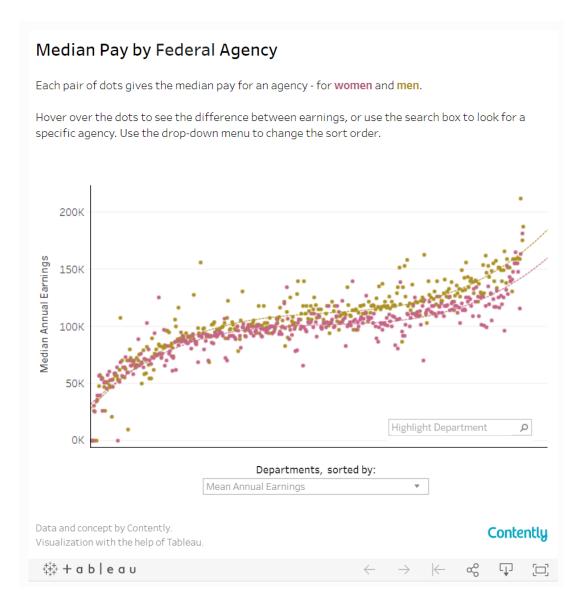


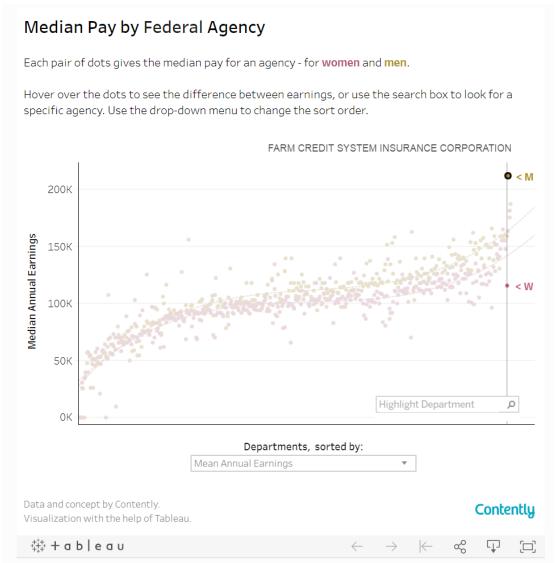
Tableau tips

- Style your Story Points to fit design
- Automatic/range sizing + phone layout for best results
- Utilize layout containers for more complex layouts

3. Interactivity & UX

Interactivity & UX | Secondary Messages

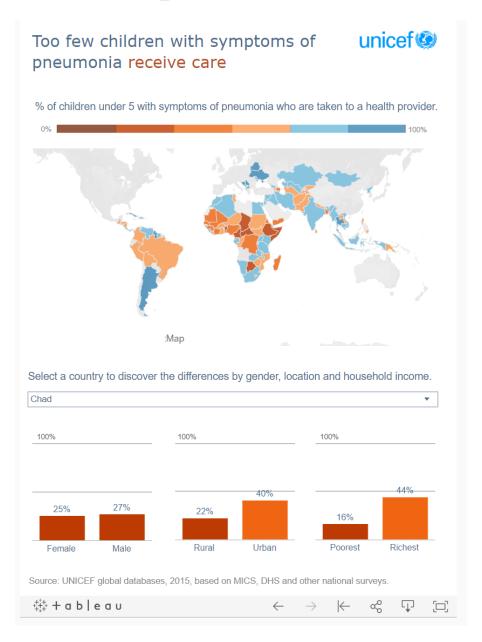




https://thehatchinstitute.org/government-wage-gap-data



Interactivity & UX | Dashboard Actions



https://blogs.unicef.org/blog/5-facts-about-childhood-pneumonia/



Interactivity & UX | Key Takeaways



Design considerations:

- Less is more
- Secondary (customized) insights
- Design for non-Tableau users
- Make it obvious Give guidance!
- Use dashboard actions carefully
- Action on click, rather than hover
- Lock maps



Real-world examples:

UNICEF – Health care data



Project management tips:

Let others test your viz

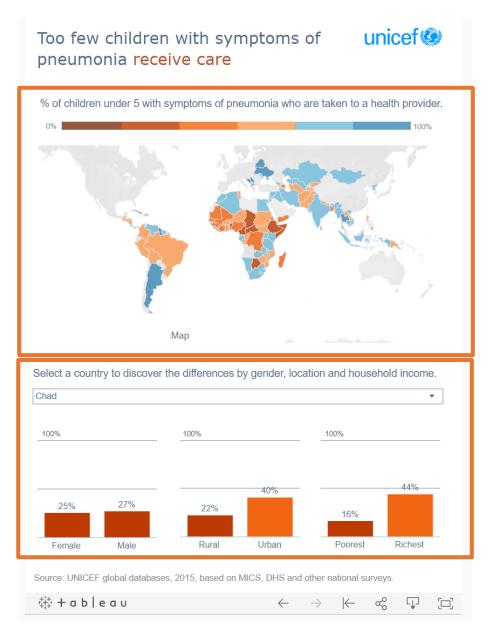


Tableau tips:

- Filter action + drop-down menu
- Maps > Map Options > untick all

4. Formatting & Branding

Formatting & Branding

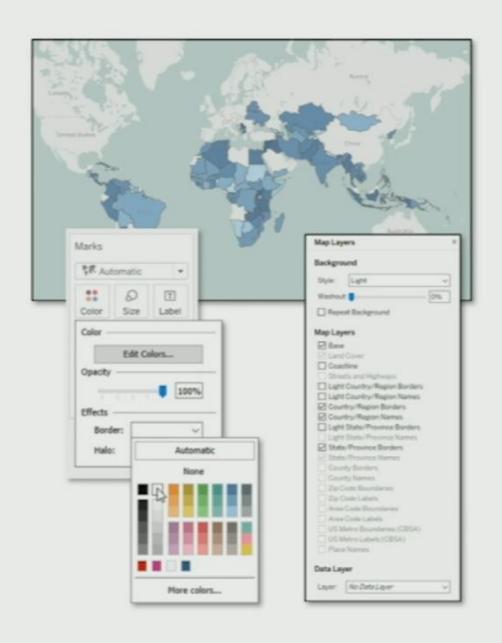


Explanatory

Exploratory

https://blogs.unicef.org/blog/5-facts-about-childhood-pneumonia/

Formatting & Branding | Map Design





Formatting & Branding | Map Design





Before

After

Formatting & Branding | You, the artist

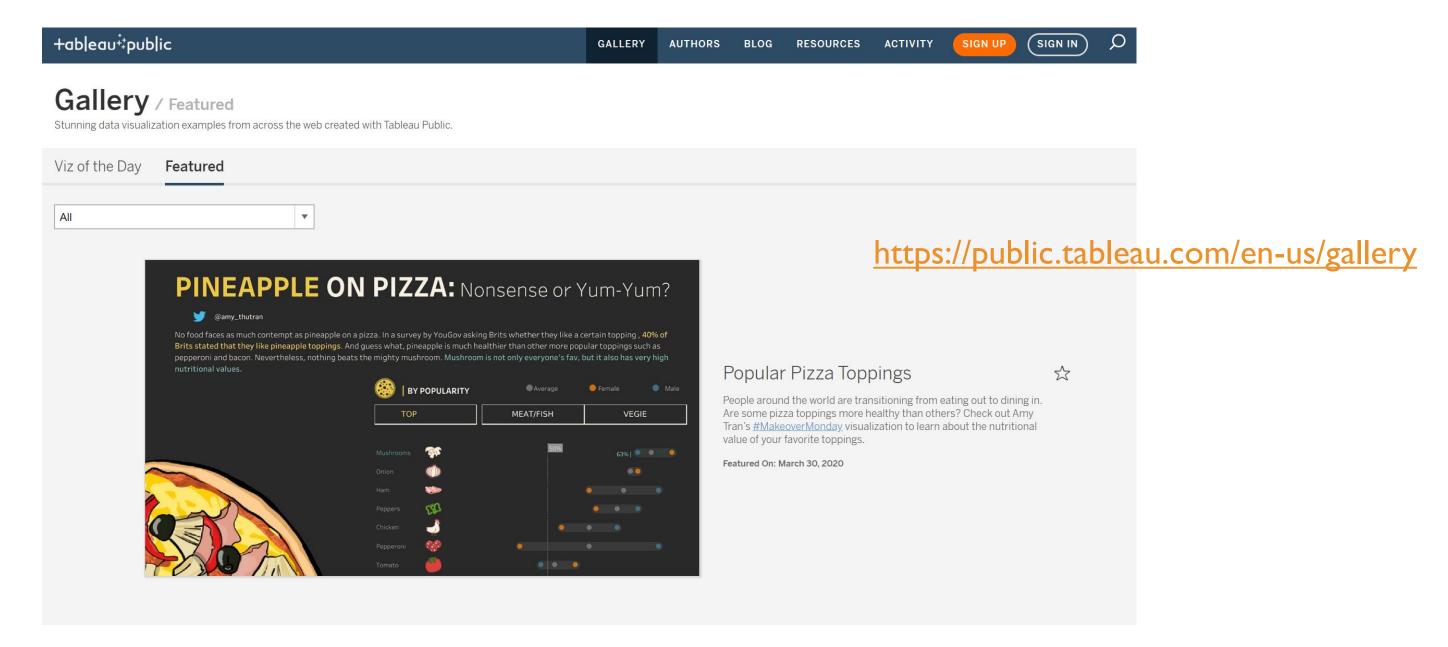


Formatting & Branding | Principles of Design

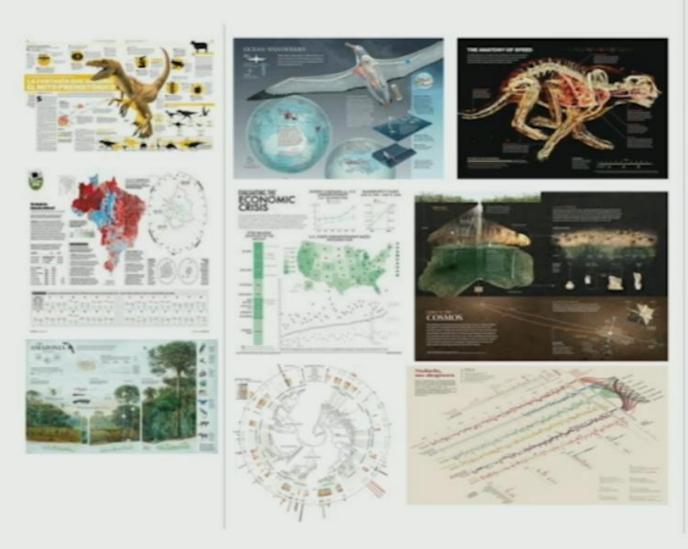
- Movement and Rhythm
- Balance
- Emphasis
- Simplicity
- Contrast
- Proportion
- Space
- Unity

"Good visual balance, rhythmic movement, emphasis of a focal point, simplicity, contrast in color, anatomical proportion and effective space arrangement will make a data visualization look harmonious in composition."

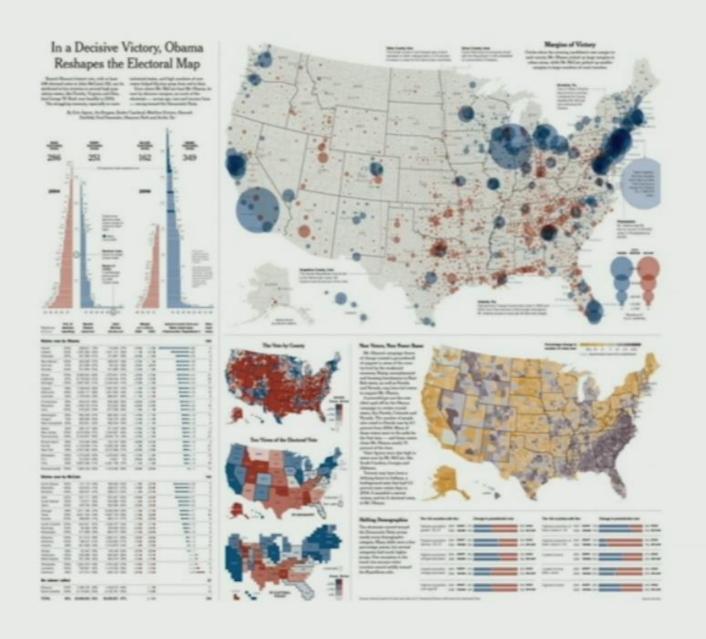
Formatting & Branding | Inspiration



Formatting & Branding | Inspiration

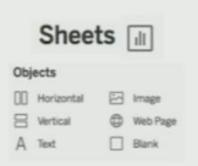


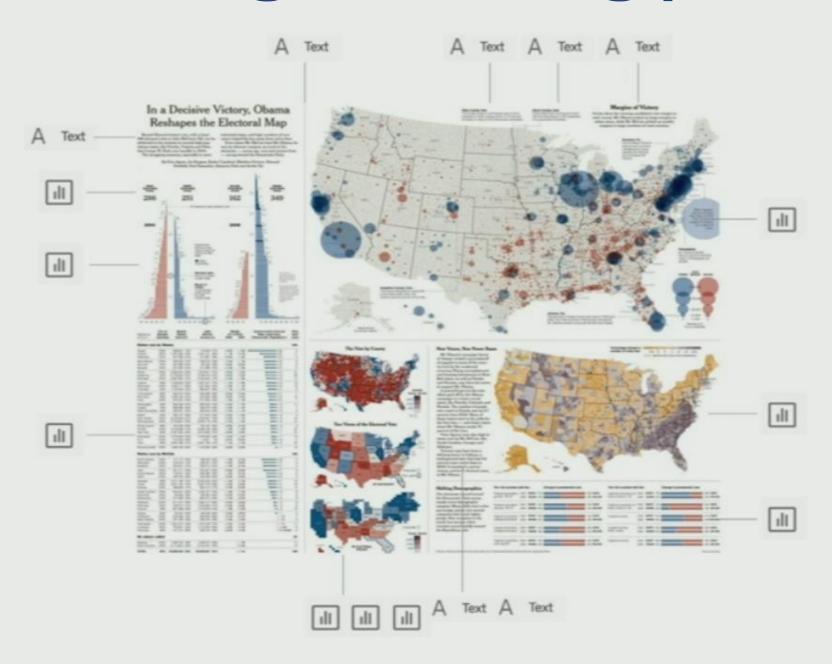




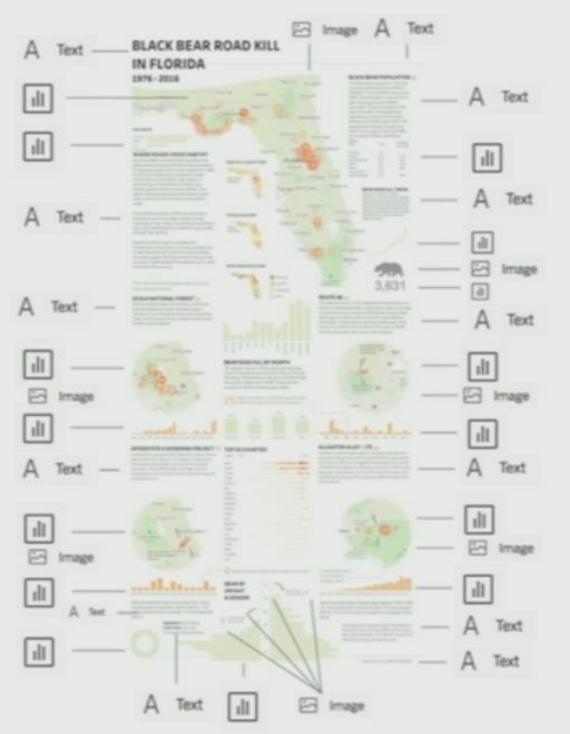
What is a Dashboard?

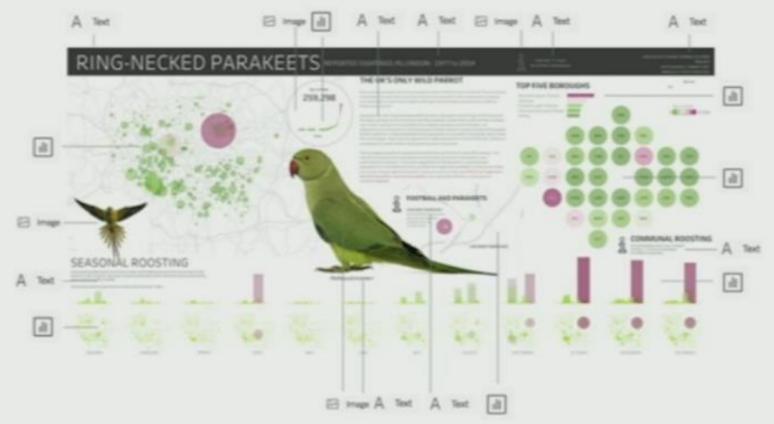
It's a canvas, a repository for "elements"





You CAN do this in Tableau!





Bear Viz

72

separate floating elements

Parakeet Viz

23

separate floating elements



FLOATING?

100%

Tiled

Floating



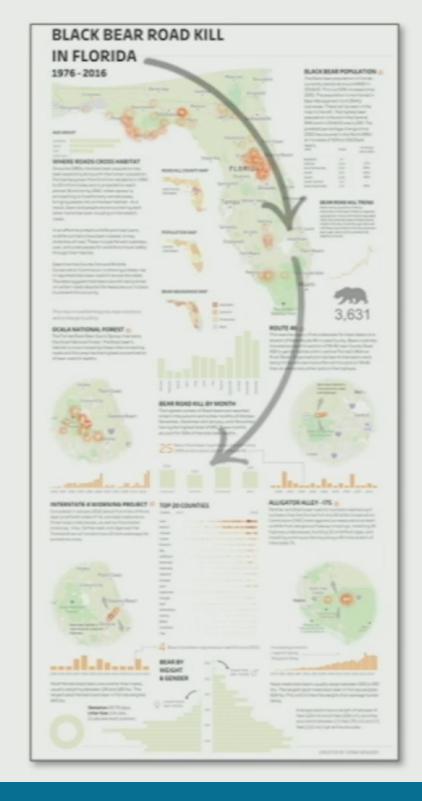
Item hierarchy

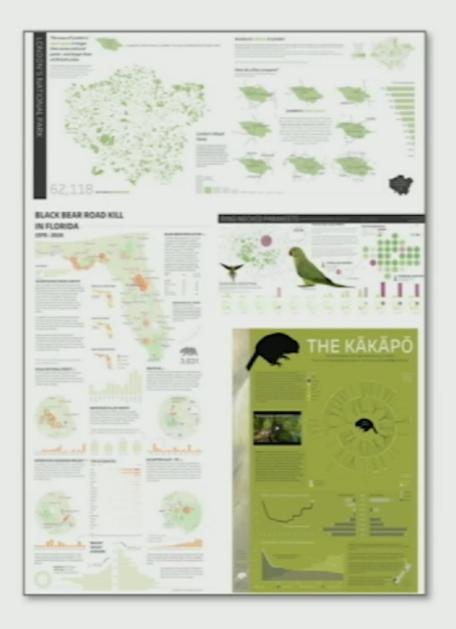
Dashboard 2

- (a) 14 More info
- Alligator more info
- A Gestation: 63-70 days. Li...
- Ocala More info
- 2000px-Disc_Plain_lightgr...
- A Text
- A Increasing trend in road...
- A Text
- A Text
- A BEAR BY WEIGHT & GENDER
- A Average adults have a len...
- A Text
- A Text
- A CREATED BY JONNI WALKER
- White curve flip.png
- A Adult female black bears ...
- A Text
- 2000px-Disc_Plain_lightgr...
- A Adult male black bears us...
- Female.png
- Male 2.png
- A Text
- A Text
- 2000px-Disc_Plain_lightgr...

MOVEMENT AND RHYTHM

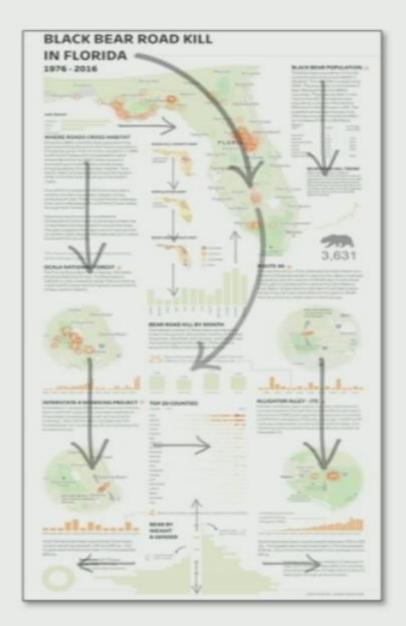
MAPS & CHARTS ARE DESIGN





MOVEMENT AND RHYTHM

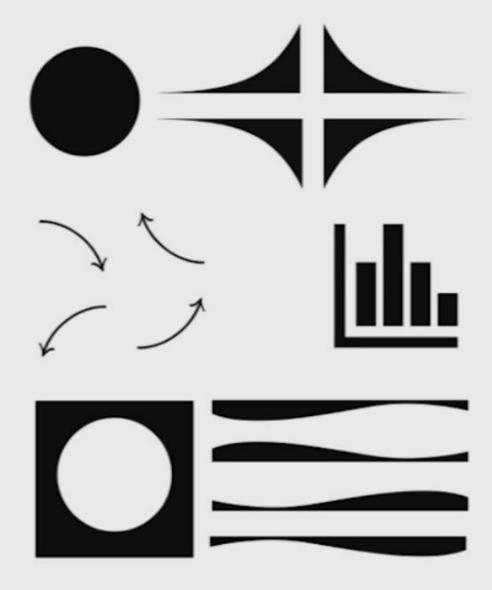
VISUAL FLOW



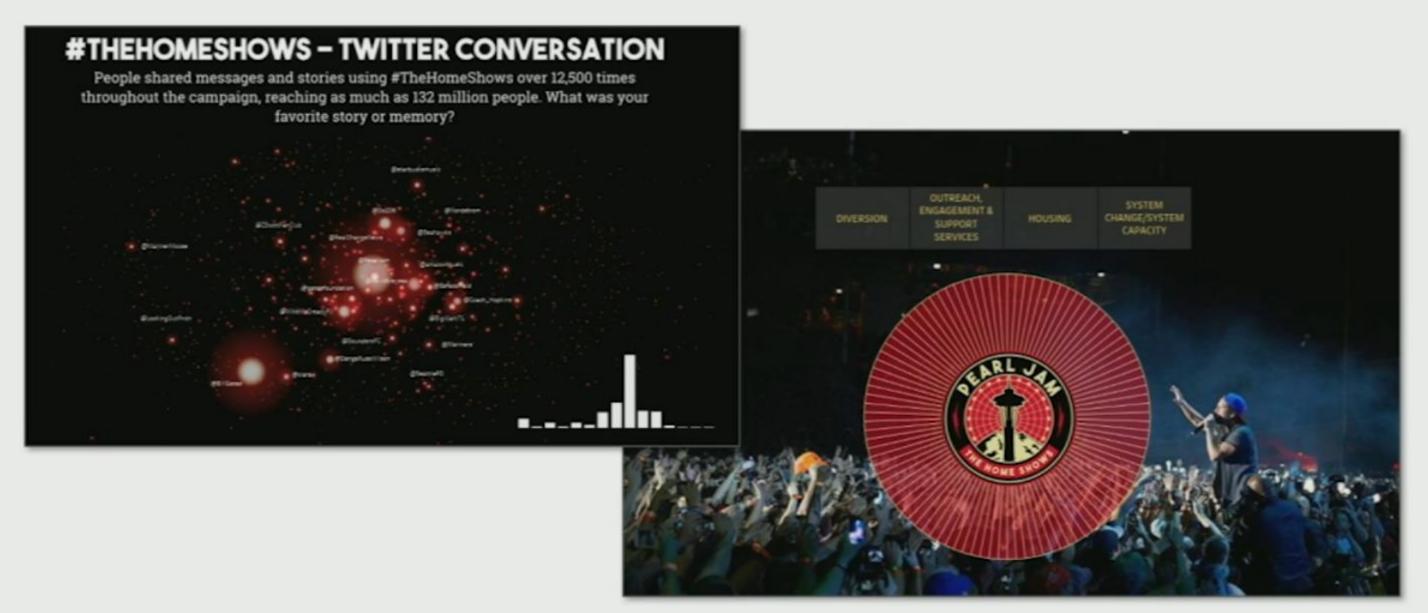




SHAPES LIBRARY



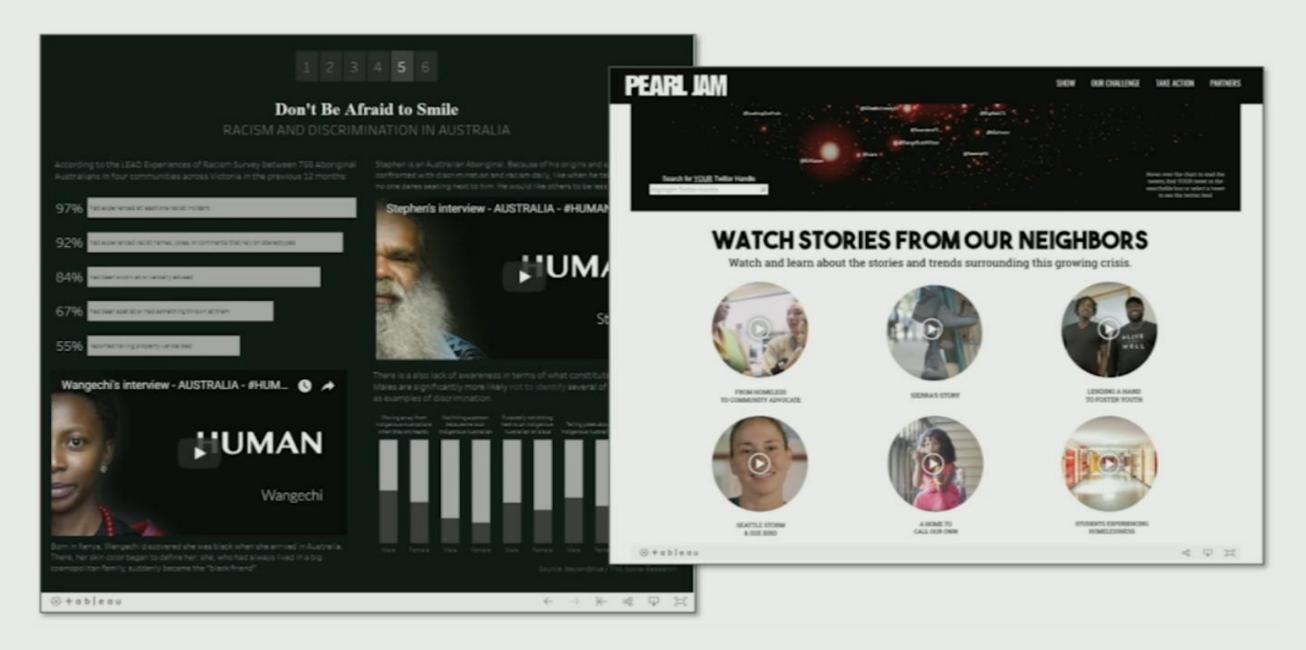
Formatting & Branding | Transparency



Formatting & Branding | Images



Formatting & Branding | Videos



Formatting & Branding | Key Takeaways



Design considerations

Basic:

- Clean/modern design less is more
- Logo
- Corporate colors
 (+ complementary colors)
- Whitespace

Advanced:

- Think YOU
- Think Design Principles
- Think Unity
- Think Flow
- Think Transparency (Responsibly!)
- Think Images & Shapes (Copyright!)



Project management tips

 Involve your graphic design team to get corporate design guidelines



Tableau tips

- Format > Borders & Lines
- Map layers & background colors
- Mapbox maps
- Color picker
- Transparency
- Hierarchy control

Q&A