UX Australia 2019, Sydney

The Lorem Ipsum of data visualisation

How to design data-driven wireframes

Martin von Lupin
@martinvonlupin

I’m UX/UI Designer at data visualisation studio Small Multiples in Sydney

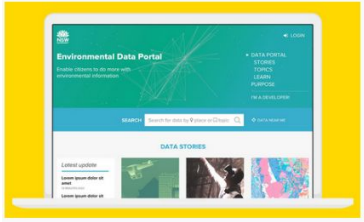
MULTI-OMICS VISUALISER
IGGY GET OUT

HOW TO PLAN A HOLIDAY USING DATA
SMALL MULTIPLES

HANZI UNIVERSE
SMALL MULTIPLES

STANDING ON THE BORDERS OF GIANTS
COMPETITION: WORLD DATA VISUALIZATION PRIZE

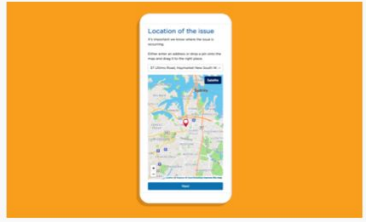
SCHOOL PLANNING ASSISTANCE TOOL
DEPARTMENT OF EDUCATION



USER RESEARCH FOR NSW ENVIRONMENTAL DATA PORTAL SEED
NSW DEPARTMENT OF PLANNING AND ENVIRONMENT

HELLO, SUN. AUGMENTED REALITY APP
SMALL MULTIPLES

NOT A SINGLE ORIGIN
SMALL MULTIPLES

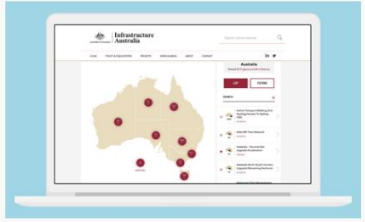


DIGITAL CONNECTIVITY - INTERACTIVE MAP
DEPARTMENT OF PREMIER & CABINET

SCHOOLS WEATHER AND AIR QUALITY WEBSITE
UNSW CLIMATE CHANGE RESEARCH CENTRE

AEROTROPOLIS - AN INTERACTIVE TOUCHSCREEN
DEPARTMENT OF PREMIER & CABINET

LOCAL GOVERNMENT REPORTING
AUDIT OFFICE OF NSW



MAPPING KEY INFRASTRUCTURE PROJECTS IN AUSTRALIA
INFRASTRUCTURE AUSTRALIA

HELLO, SUN.
SMALL MULTIPLES

VISUALISING DIGITAL PROJECTS IN NSW
DEPARTMENT OF FINANCE, SERVICES & INNOVATION

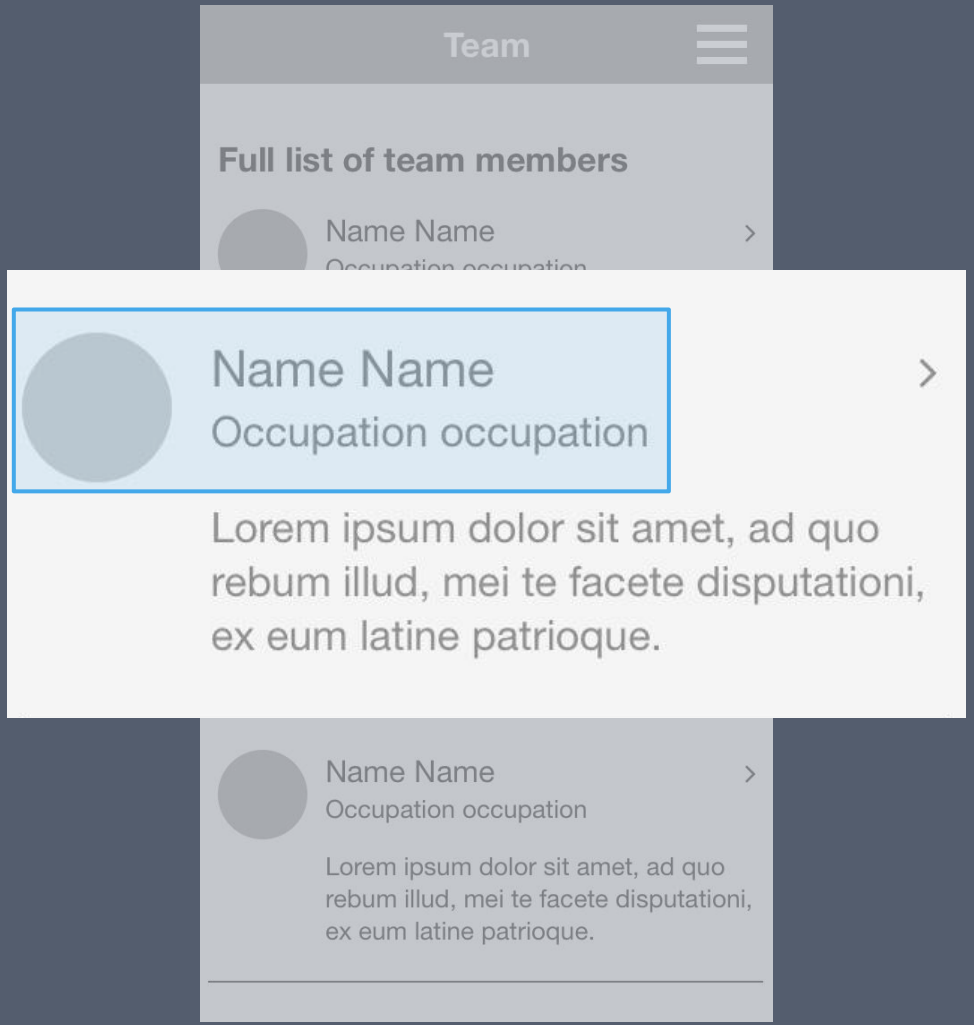
How to create wireframes for data-driven products?

Wireframes

Placeholder elements like “Lorem Ipsum” paragraph

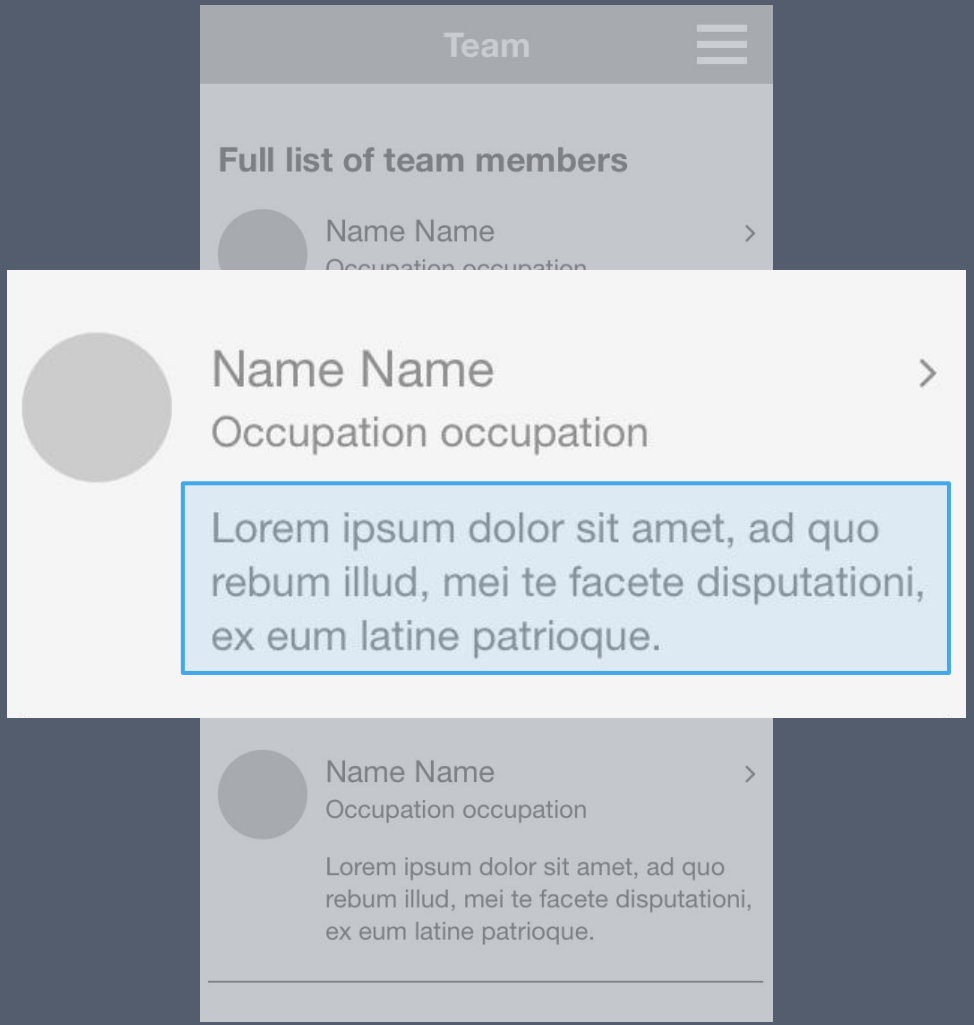
Wireframes

Placeholder elements like “Lorem Ipsum” paragraph



Wireframes

Placeholder elements like “Lorem Ipsum” paragraph



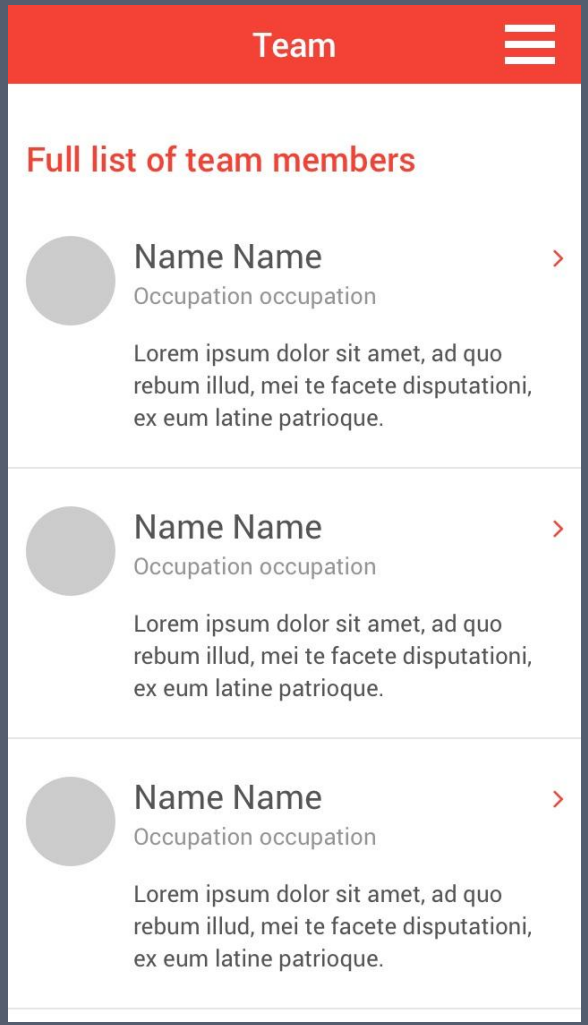
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Phasellus accumsan eu purus in pharetra. Maecenas pretium, nibh ut fermentum egestas, metus justo viverra elit, id porta felis velit id libero. Integer non dui ullamcorper, scelerisque libero ut, tempus purus. In faucibus leo quis nunc vehicula iaculis. Mauris commodo leo eget imperdiet elementum. Pellentesque dolor odio, euismod eget tristique sit amet, porta at sem. Nulla eget nibh ultricies, bibendum tortor ut, sodales felis. Cras diam nulla, suscipit eu pellentesque vitae, sodales non urna. Nam ut volutpat magna. Donec sodales consequat efficitur. Nullam aliquam lorem quam, et sagittis velit sagittis nec. Praesent ultricies, justo nec finibus pulvinar, enim mi auctor sem, sit amet congue purus diam sit amet neque. Morbi imperdiet ipsum turpis, quis tincidunt nisl ultricies eget. Curabitur fringilla purus turpis, vitae molestie libero finibus vel

Wireframes

Placeholder elements like “Lorem Ipsum” paragraph

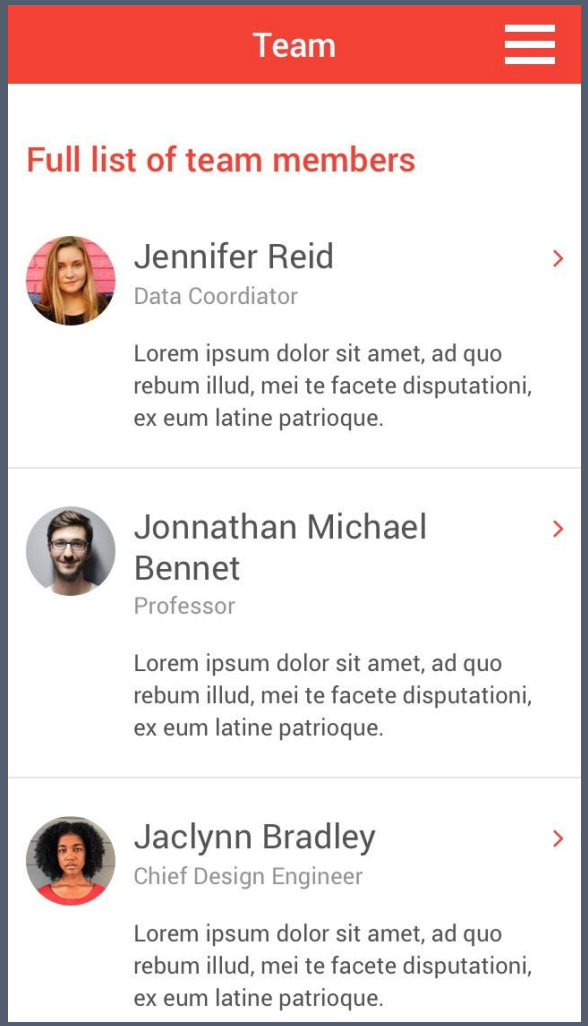
Design

Placeholder elements like “Lorem Ipsum” paragraph



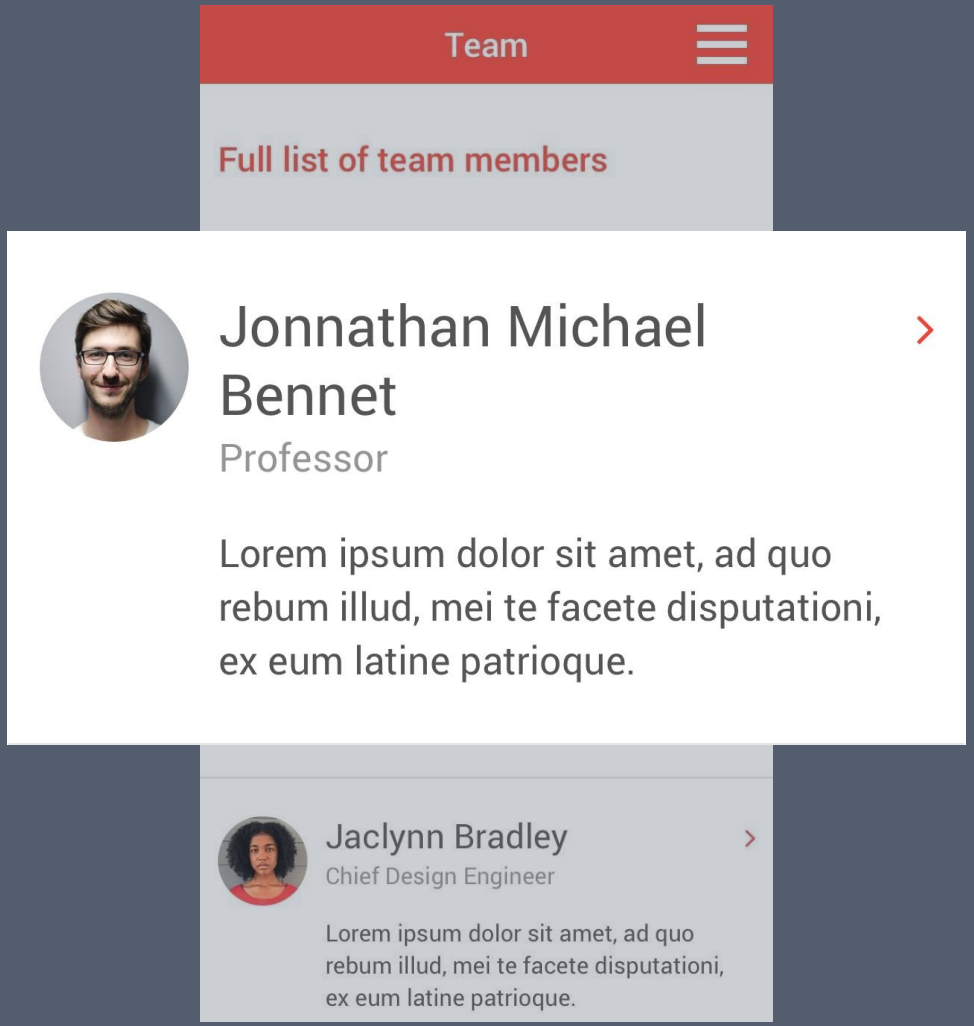
Design

Replacing placeholders with meaningful but random content



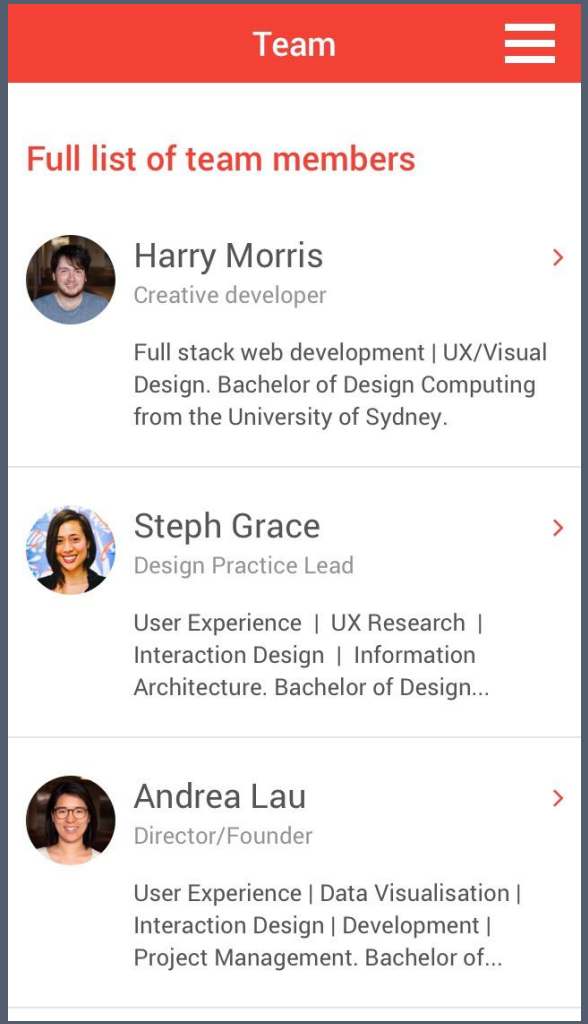
Design

Replacing placeholders with meaningful but random content



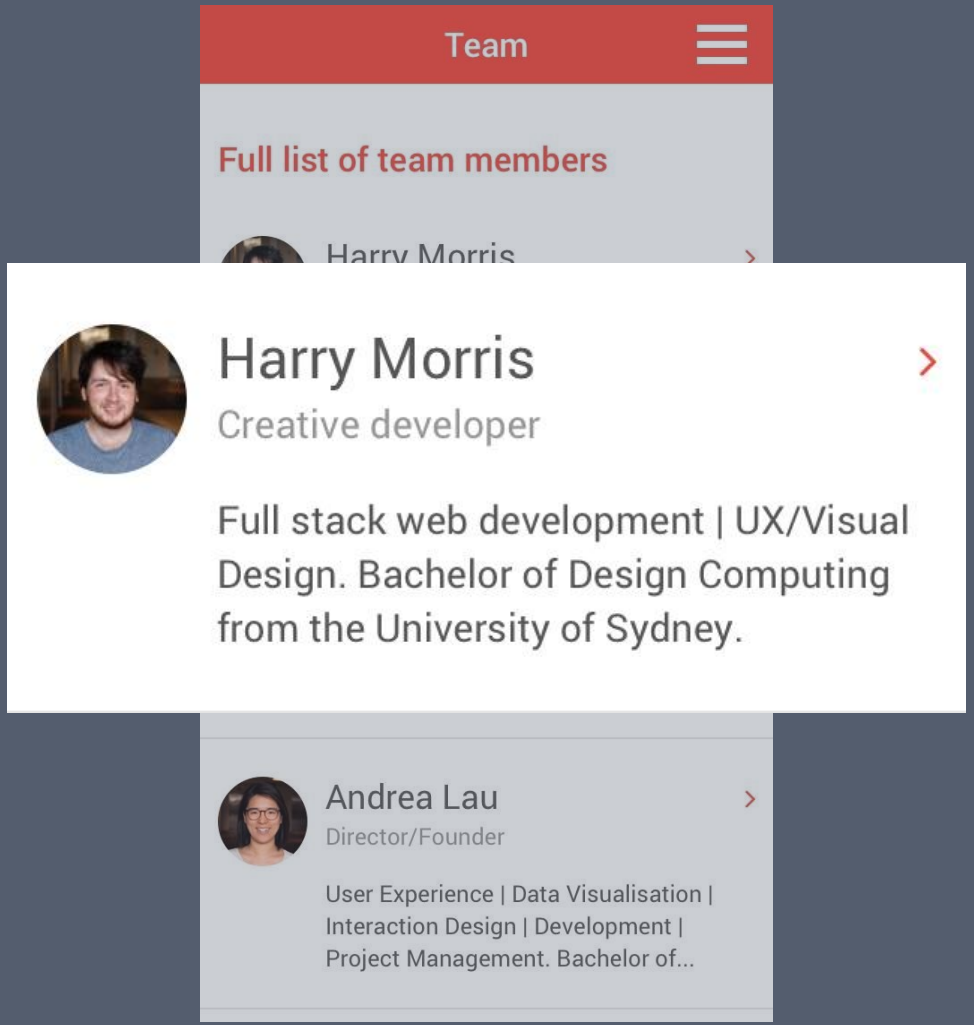
Development

Final developed version using real content



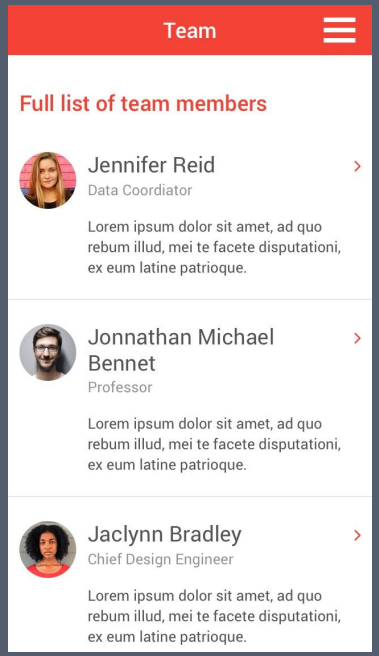
Development

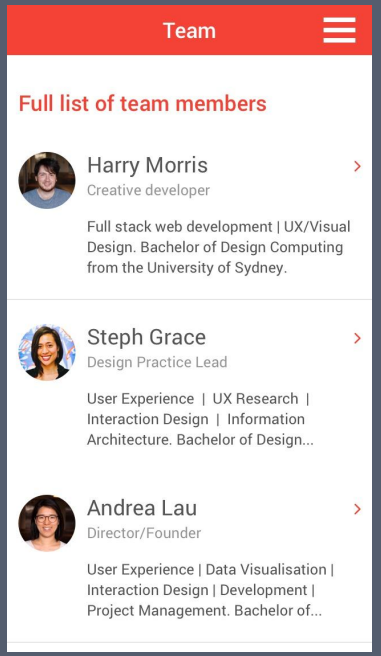
Final developed version using real content



The design process

Wireframes → Design → Development



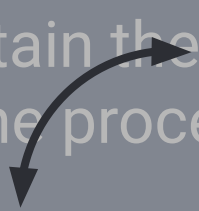


Wireframes contain the basic structure of a page very early in the process using placeholders.

Wireframes contain the basic structure of a page very early in the process using placeholders.

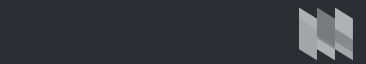
Meaningful content is added later in the design phase.

Wireframes contain the basic structure of a page very early in the process using placeholders.

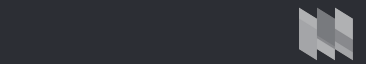


Meaningful content is added later in the design phase.

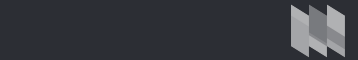
What if content is fundamental for the basic structure?



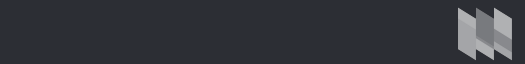
What if ~~content~~ data is fundamental for the basic structure?



What is the Lorem Ipsum of data visualisation?



Let’s put data into our wireframes!



Content strategies

Placeholder content

Name Name
Occupation occupation

Lorem ipsum dolor sit amet, ad quo rebum illud, mei te facete disputationi, ex eum latine patrioque.

Meaningful but random content

Jaclynn Bradley
Chief Design Engineer

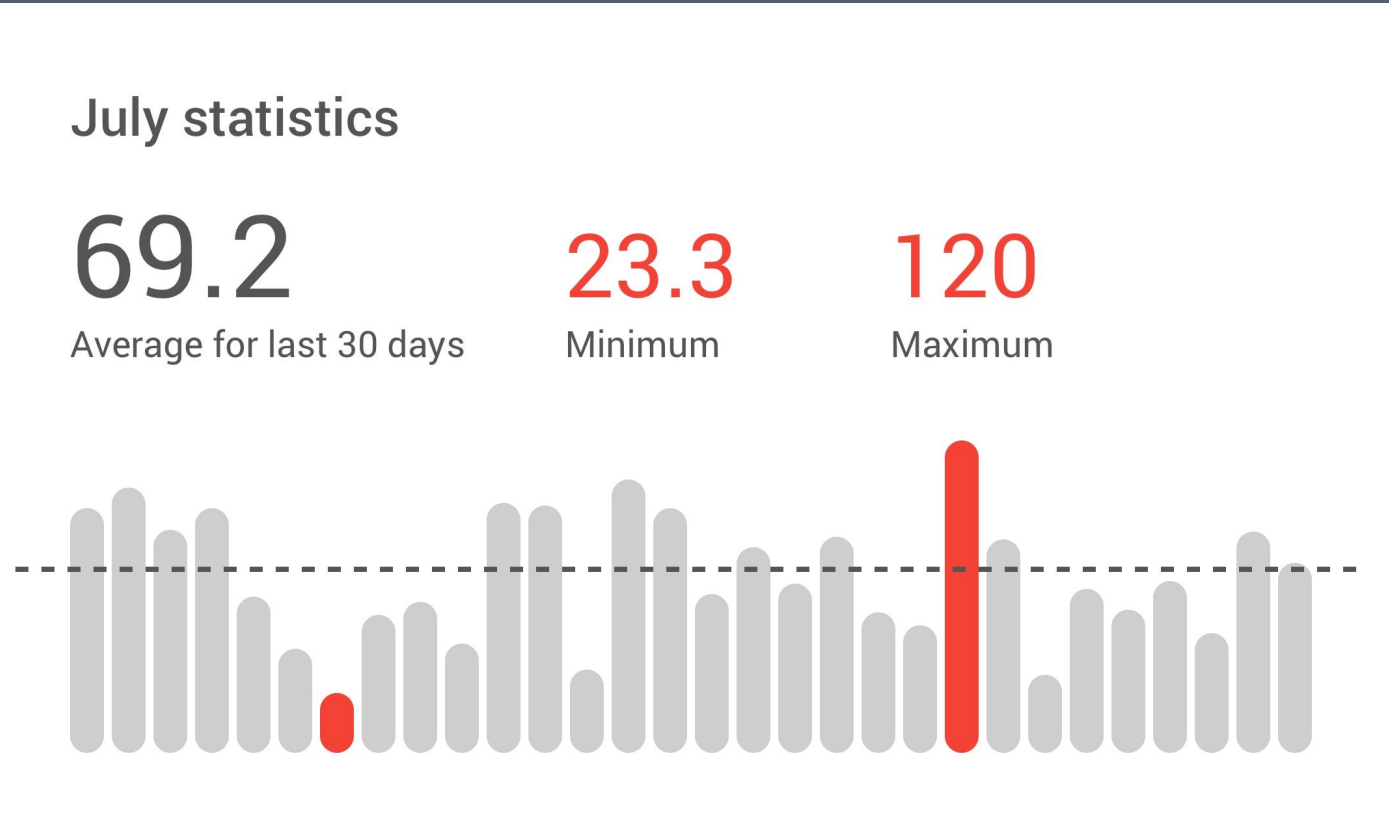
Lorem ipsum dolor sit amet, ad quo rebum illud, mei te facete disputationi, ex eum latine patrioque.

Real content

Harry Morris
Creative developer

Full stack web development | UX/Visual Design. Bachelor of Design Computing from the University of Sydney.

Final design of a chart



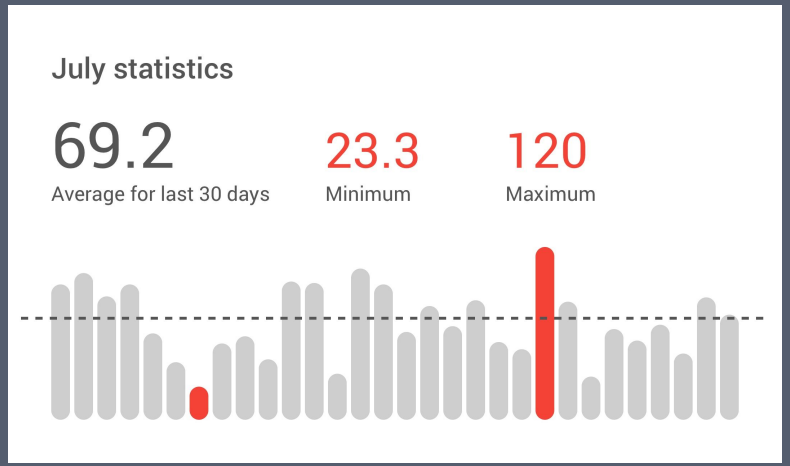
How to design wireframes...

Wireframes

?

... to get to this?

Final design

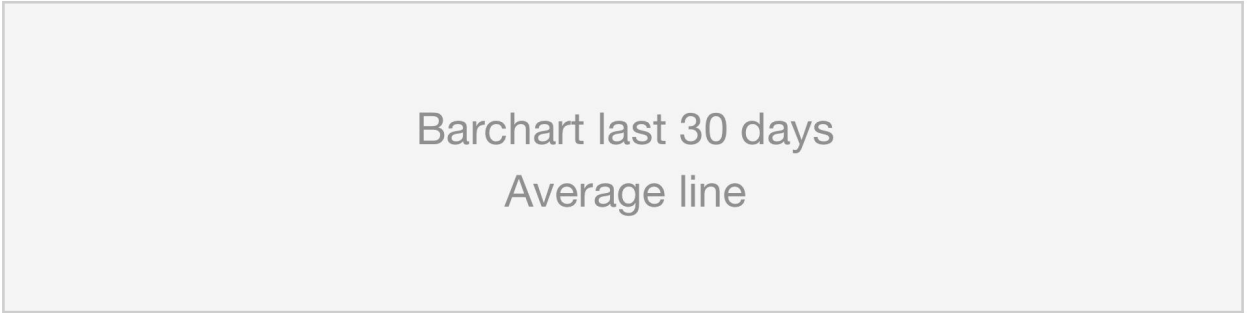


Placeholder data

Meaningless numbers and placeholder area for bar chart

July statistics

123	123	123
Average for last 30 days	Minimum	Maximum

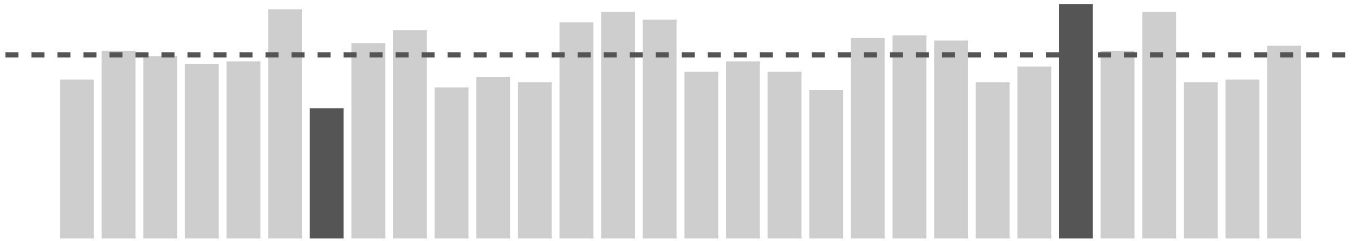


Random but meaningful data.

All elements are there and chart and numbers make sense.

July statistics

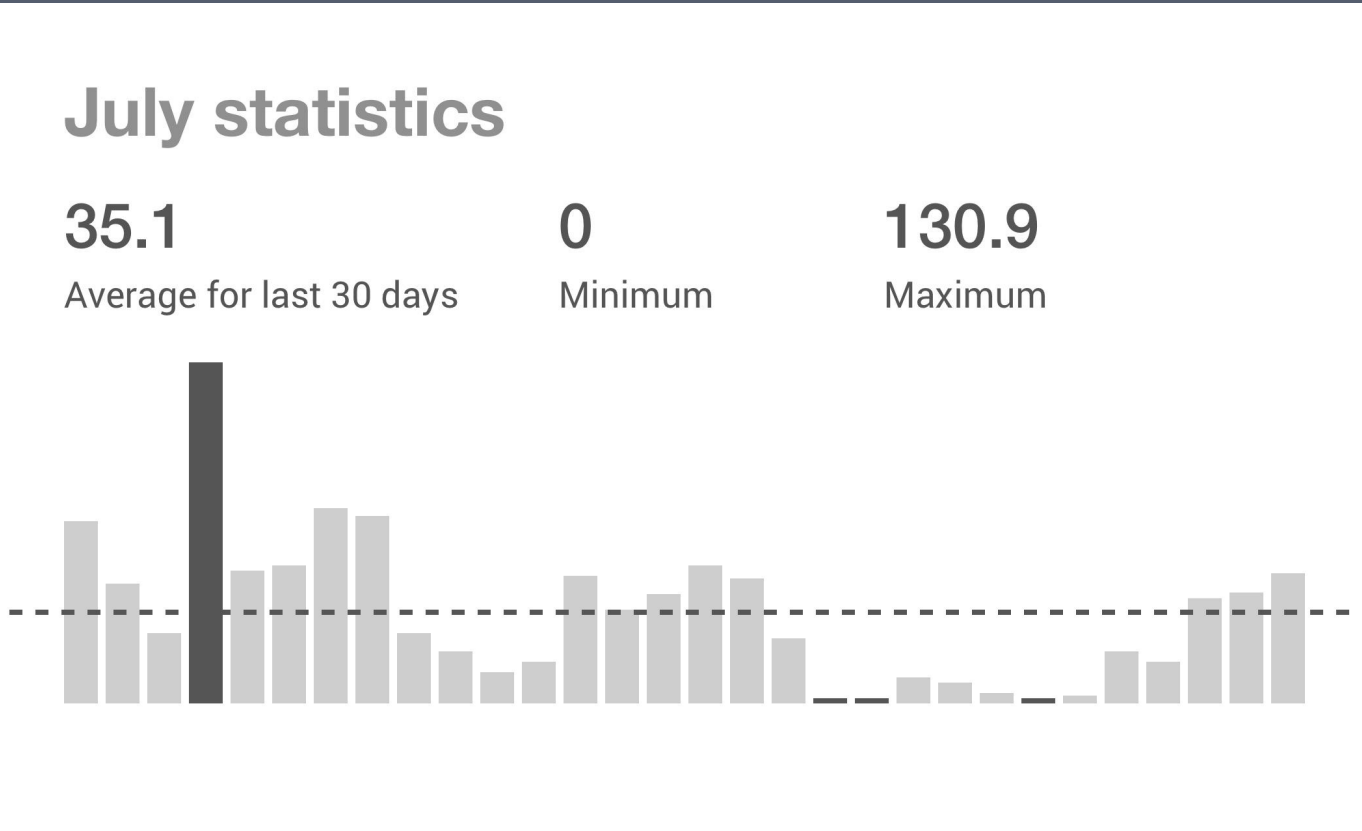
70.6	50.0	90.0
Average for last 30 days	Minimum	Maximum



Real data is applied to the chart and stats.

Difference in values larger than expected.

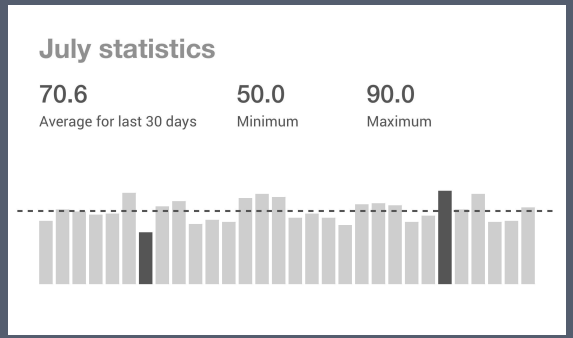
Several days share the minimum value.



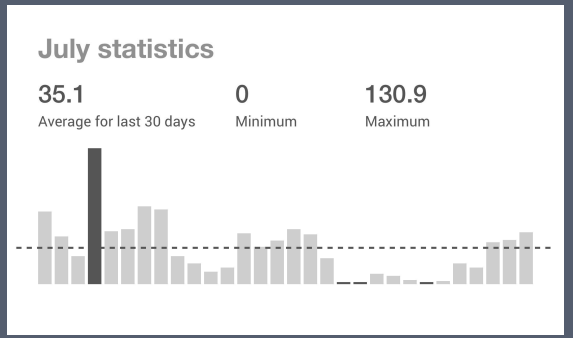
Strategies for datavis wireframes

Placeholder data

Meaningful but random data



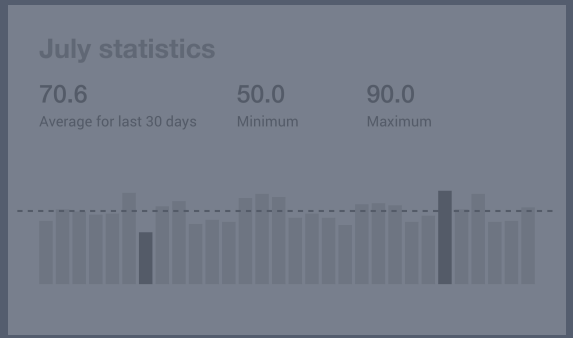
Real data



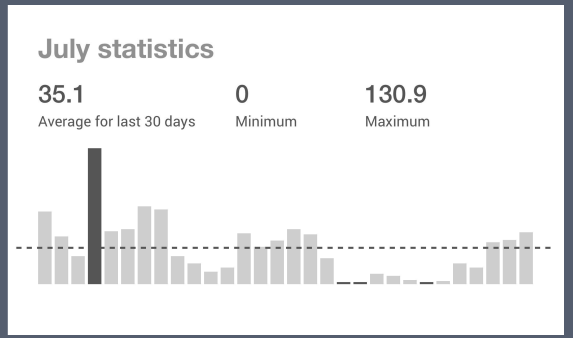
Strategies for datavis wireframes

Placeholder data

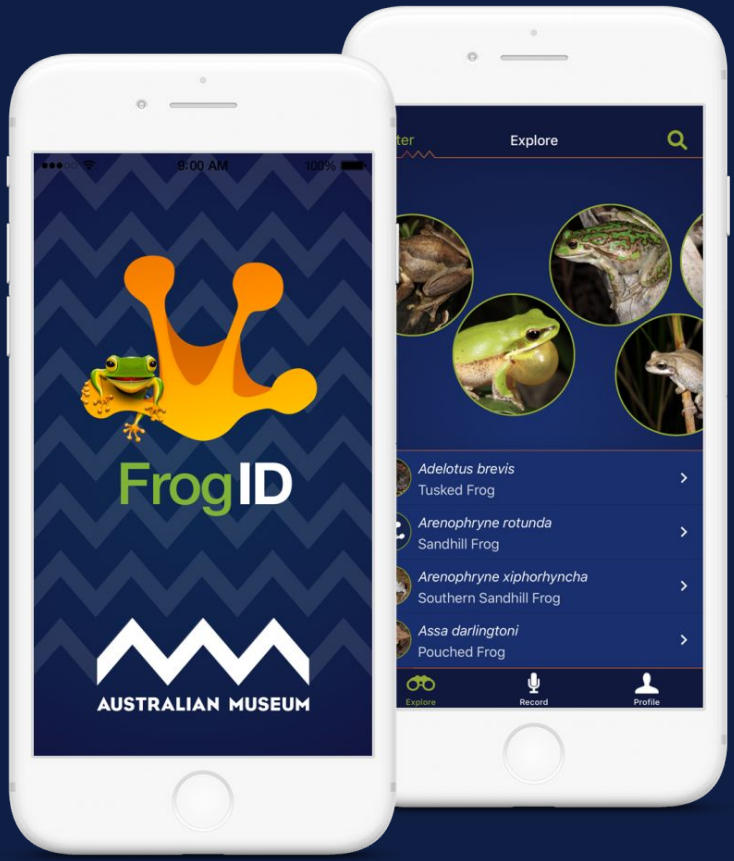
Meaningful but random data



Real data



Visualising geo-referenced frog recordings in Australia


8:00 AM
100%
FrogID
AUSTRALIAN MUSEUM
Explore
Adelotus brevis
Tusked Frog
Arenophryne rotunda
Sandhill Frog
Arenophryne xiphorhyncha
Southern Sandhill Frog
Assa darlingtoni
Pouched Frog
Explore
Record
Profile

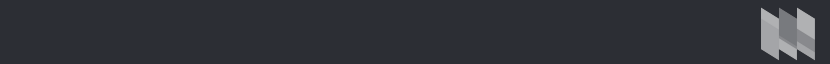
Visualising geo-referenced frog recordings in Australia

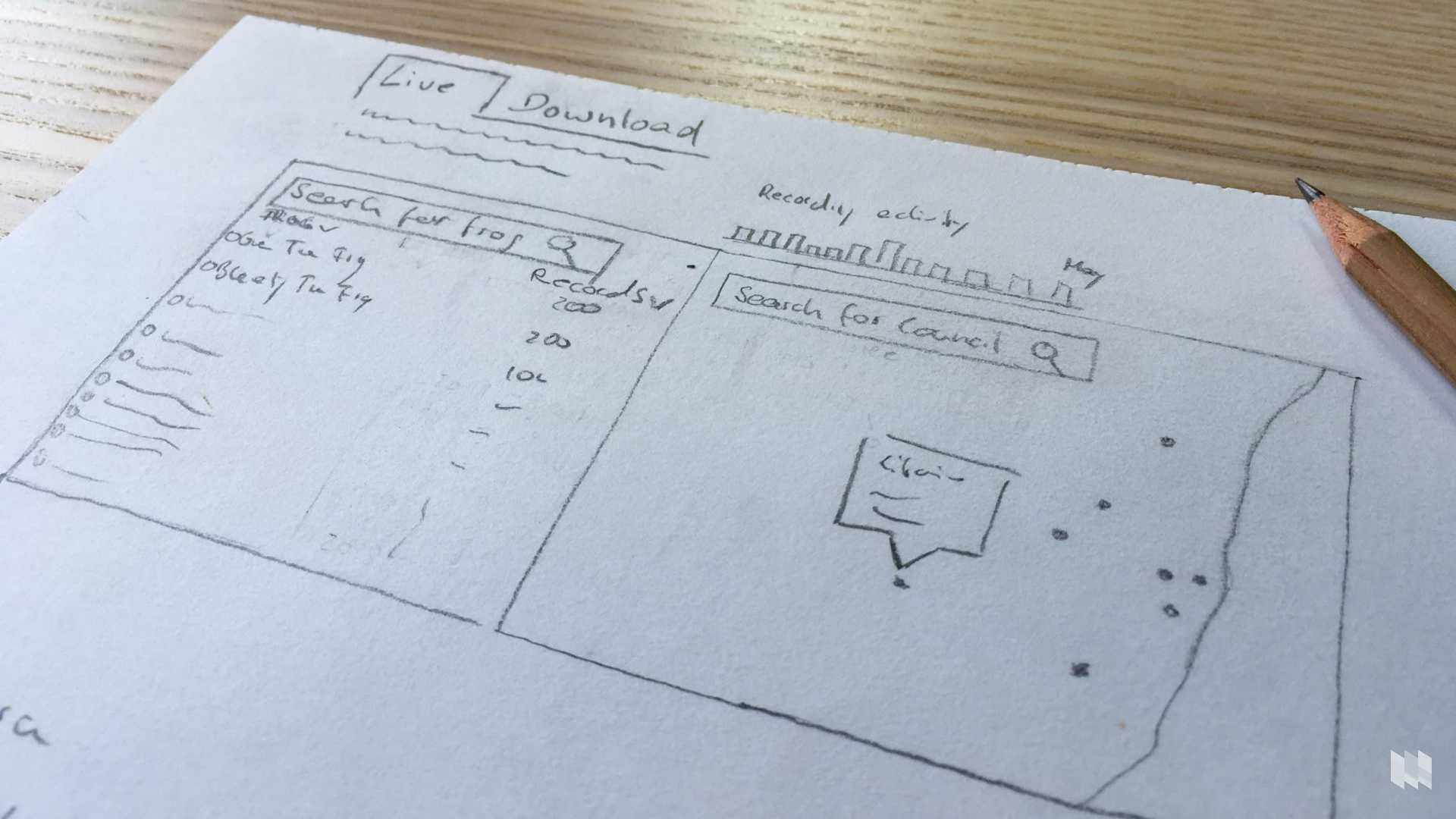
Project brief

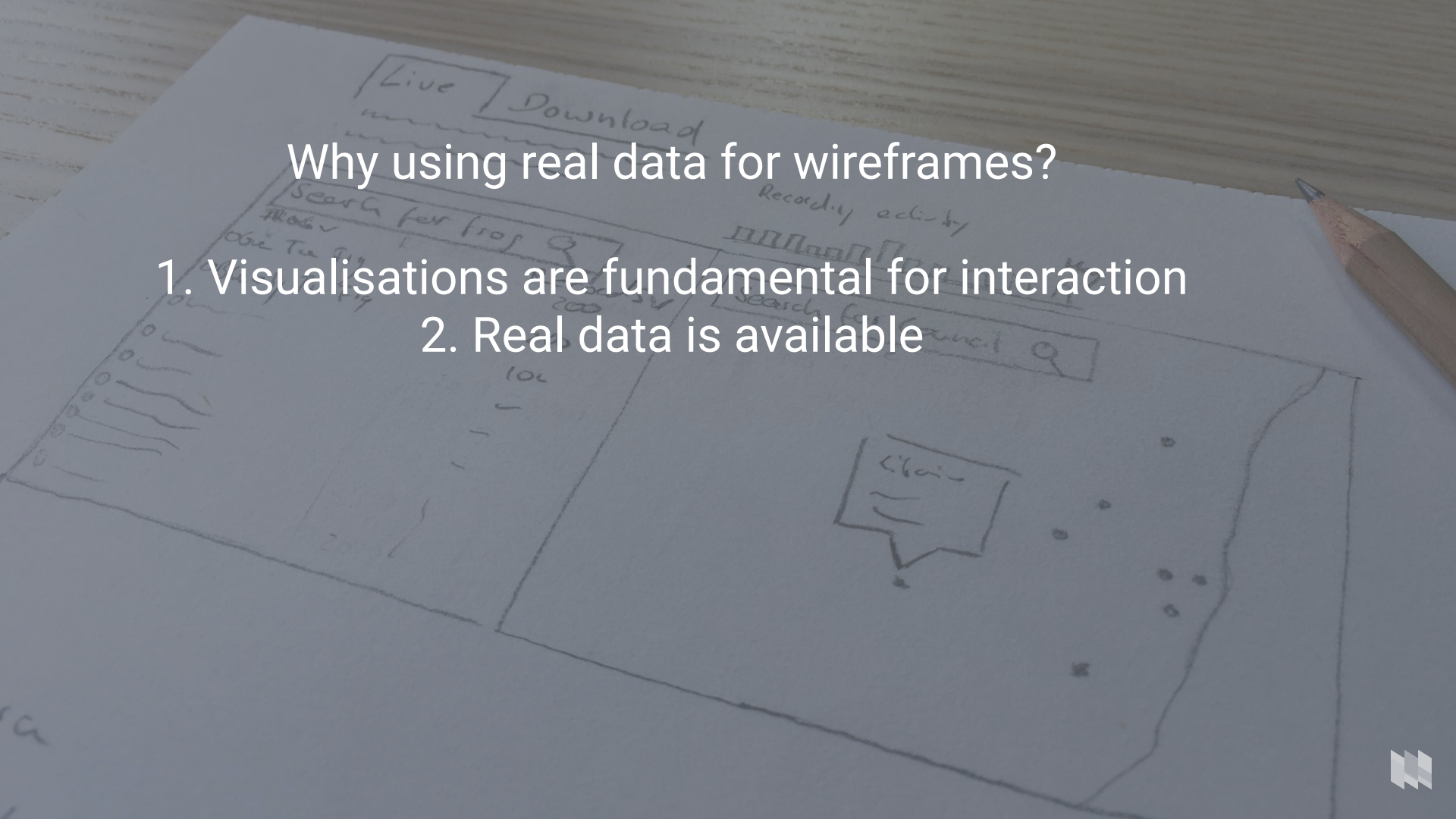
Interactive map of Australia with locations of all frog recordings from citizen science project “FrogID”.

Filter locations by

- frog species
- date range
- by LGA




Live
Download
Search for Prof
Recordsv
200
200
100
Recently activity
Search for Council



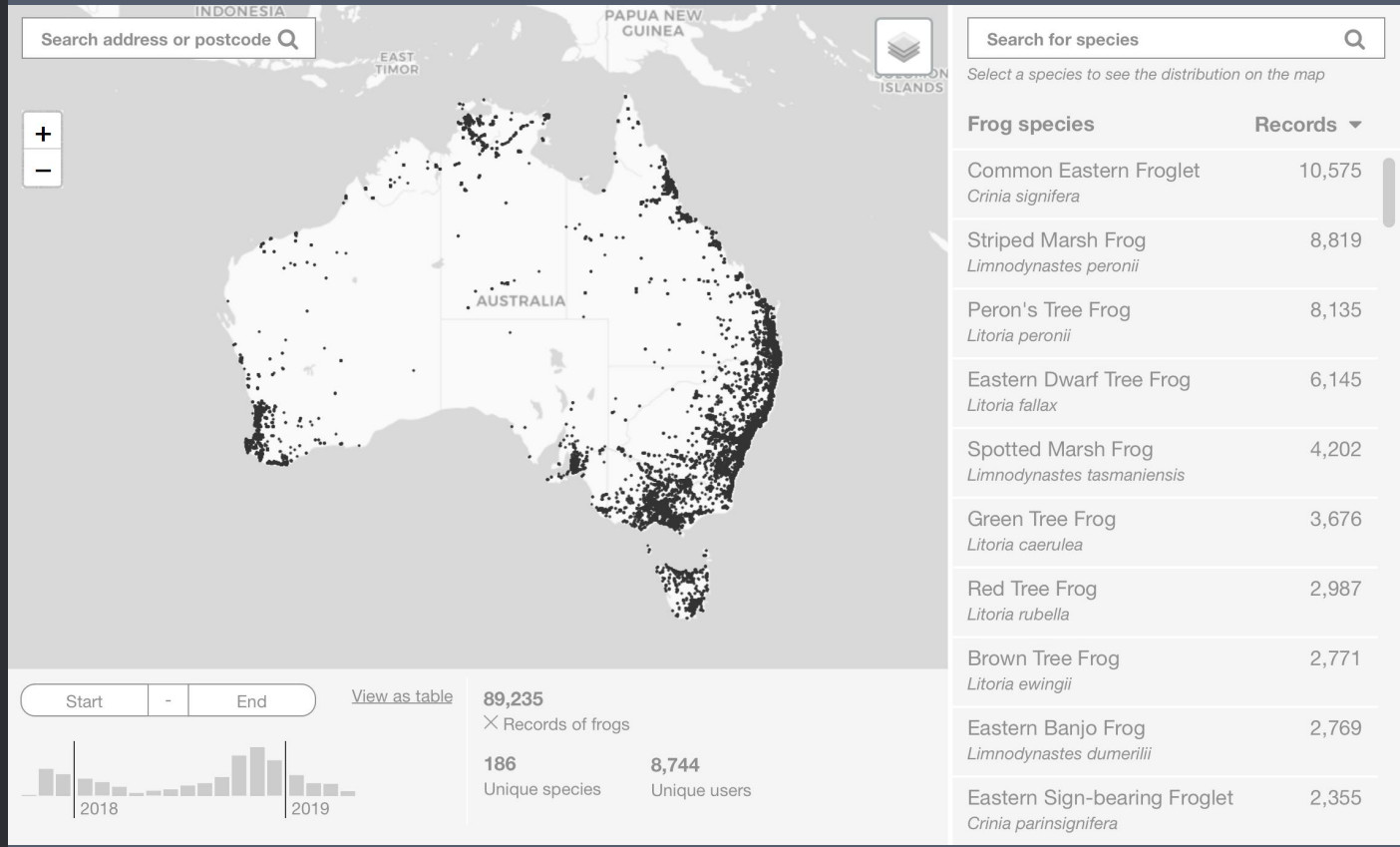
Why using real data for wireframes?

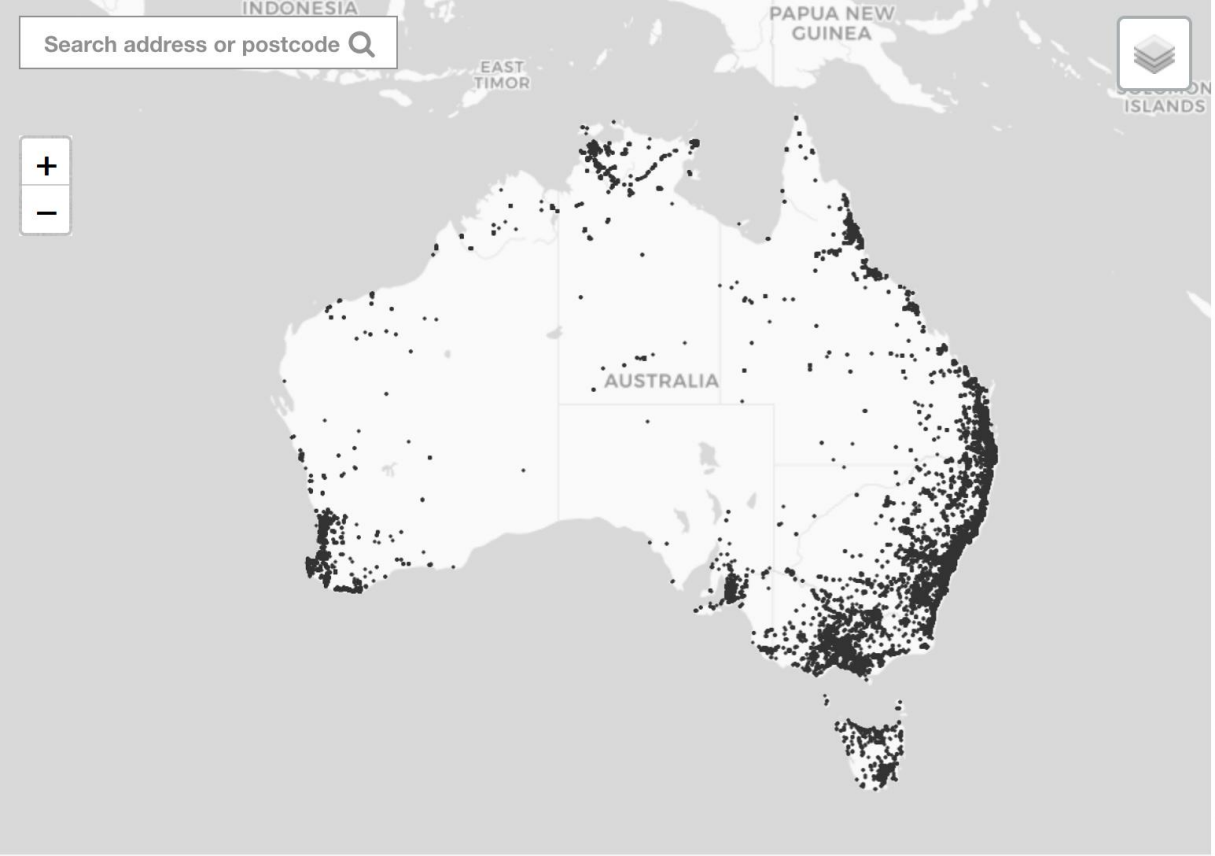
1. Visualisations are fundamental for interaction
2. Real data is available

Example of using real data

Real data all the way!

Data in map, sidebar, bar chart and summary are all for real.





Start - End

2018 2019

View as table

89,235
Records of frogs

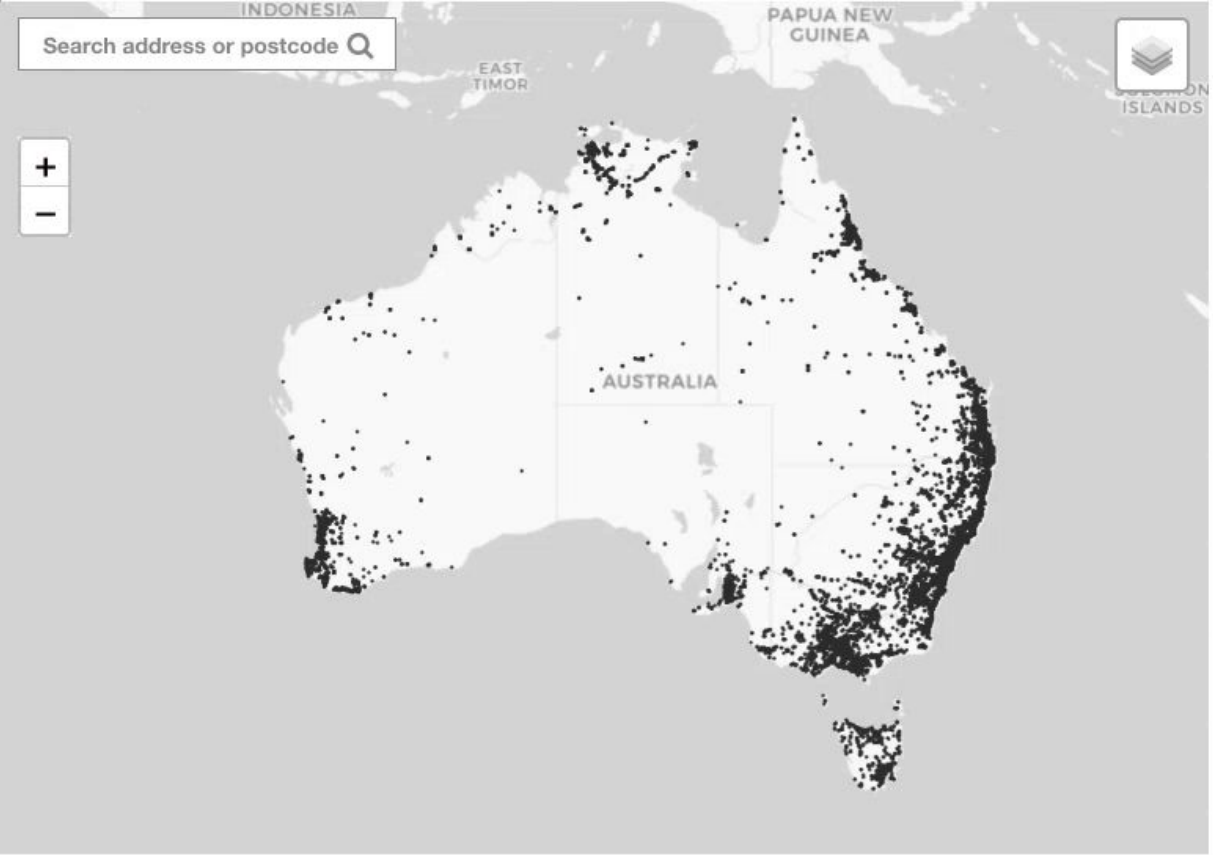
186
Unique species

8,744
Unique users

Search for species

Select a species to see the distribution on the map

Frog species	Records
Common Eastern Froglet *Crinia signifera*	10,575
Striped Marsh Frog *Limnodynastes peronii*	8,819
Peron's Tree Frog *Litoria peronii*	8,135
Eastern Dwarf Tree Frog *Litoria fallax*	6,145
Spotted Marsh Frog *Limnodynastes tasmaniensis*	4,202
Green Tree Frog *Litoria caerulea*	3,676
Red Tree Frog *Litoria rubella*	2,987
Brown Tree Frog *Litoria ewingii*	2,771
Eastern Banjo Frog *Limnodynastes dumerilii*	2,769
Eastern Sign-bearing Froglet *Crinia parinsignifera*	2,355



View as table

89,235
Records of frogs

186
Unique species

8,744
Unique users

Search for species

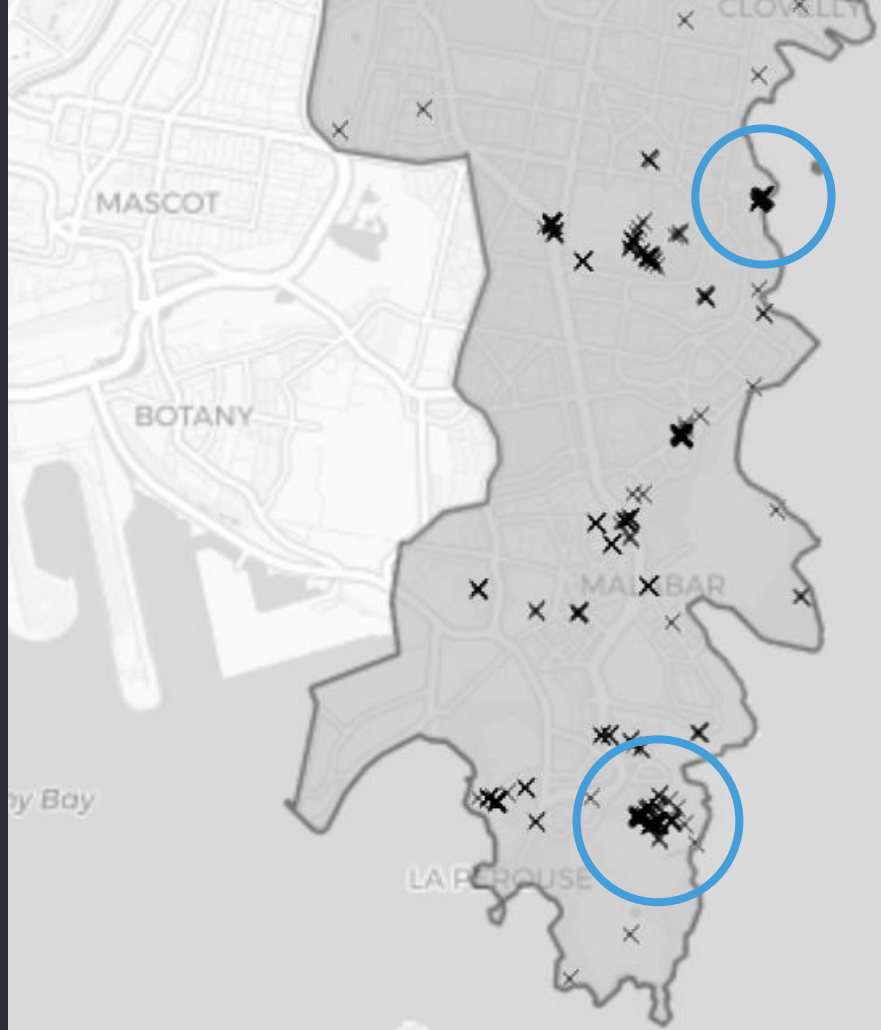
Select a species to see the distribution on the map

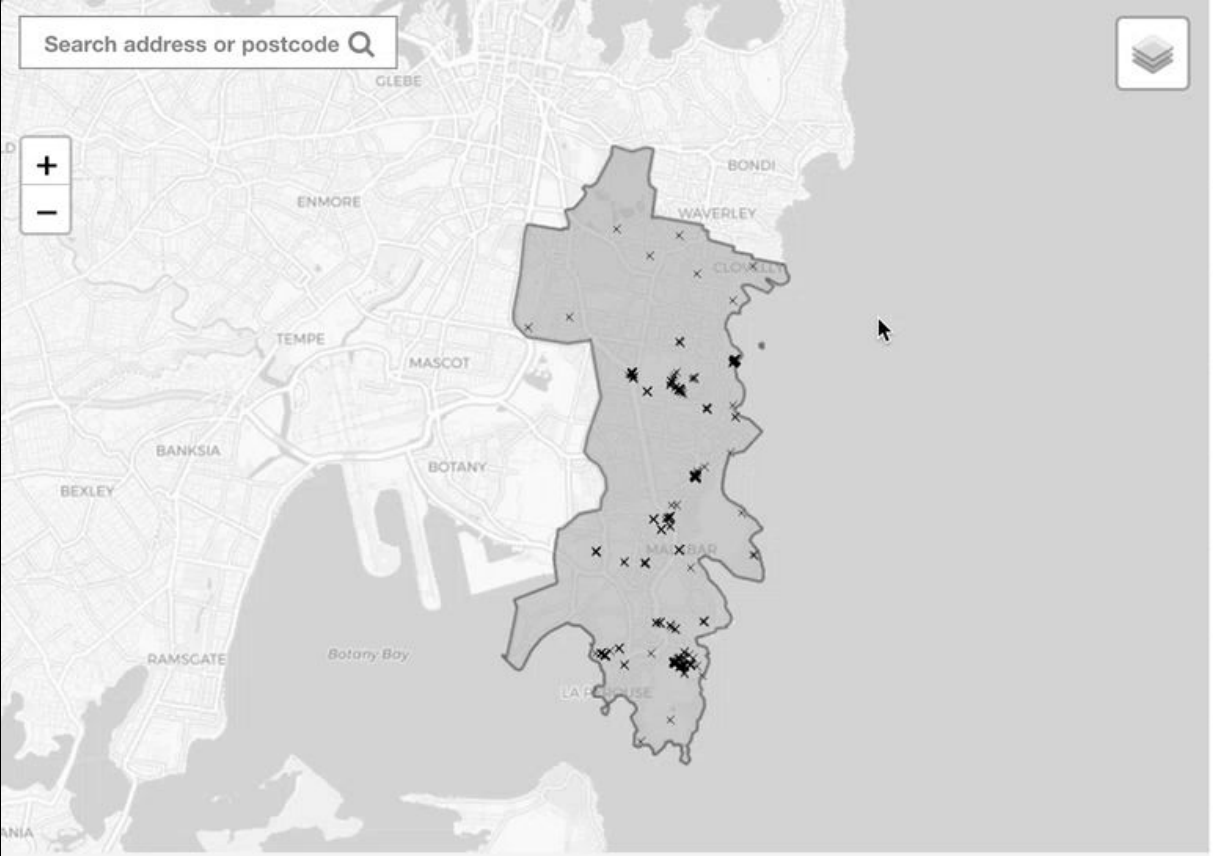
Frog species	Records
Common Eastern Froglet *Crinia signifera*	10,575
Striped Marsh Frog *Limnodynastes peronii*	8,819
Peron's Tree Frog *Litoria peronii*	8,135
Eastern Dwarf Tree Frog *Litoria fallax*	6,145
Spotted Marsh Frog *Limnodynastes tasmaniensis*	4,202
Green Tree Frog *Litoria caerulea*	3,676
Red Tree Frog *Litoria rubella*	2,987
Brown Tree Frog *Litoria ewingii*	2,771
Eastern Banjo Frog *Limnodynastes dumerilii*	2,769
Eastern Sign-bearing Froglet *Crinia parinsignifera*	2,355


Real data time!!!

Example of using real data

Surprise! There are clusters of locations that challenge the design.





Search for species

Select a species to see the distribution on the map

Frog species	Records
Striped Marsh Frog *Limnodynastes peronii*	138
Common Eastern Froglet *Crinia signifera*	118
Peron's Tree Frog *Litoria peronii*	122
Eastern Dwarf Tree Frog *Litoria fallax*	86
Green Stream Frog *Litoria phyllochroa*	2
Eastern Sign-bearing Froglet *Crinia parinsignifera*	1

Start - End

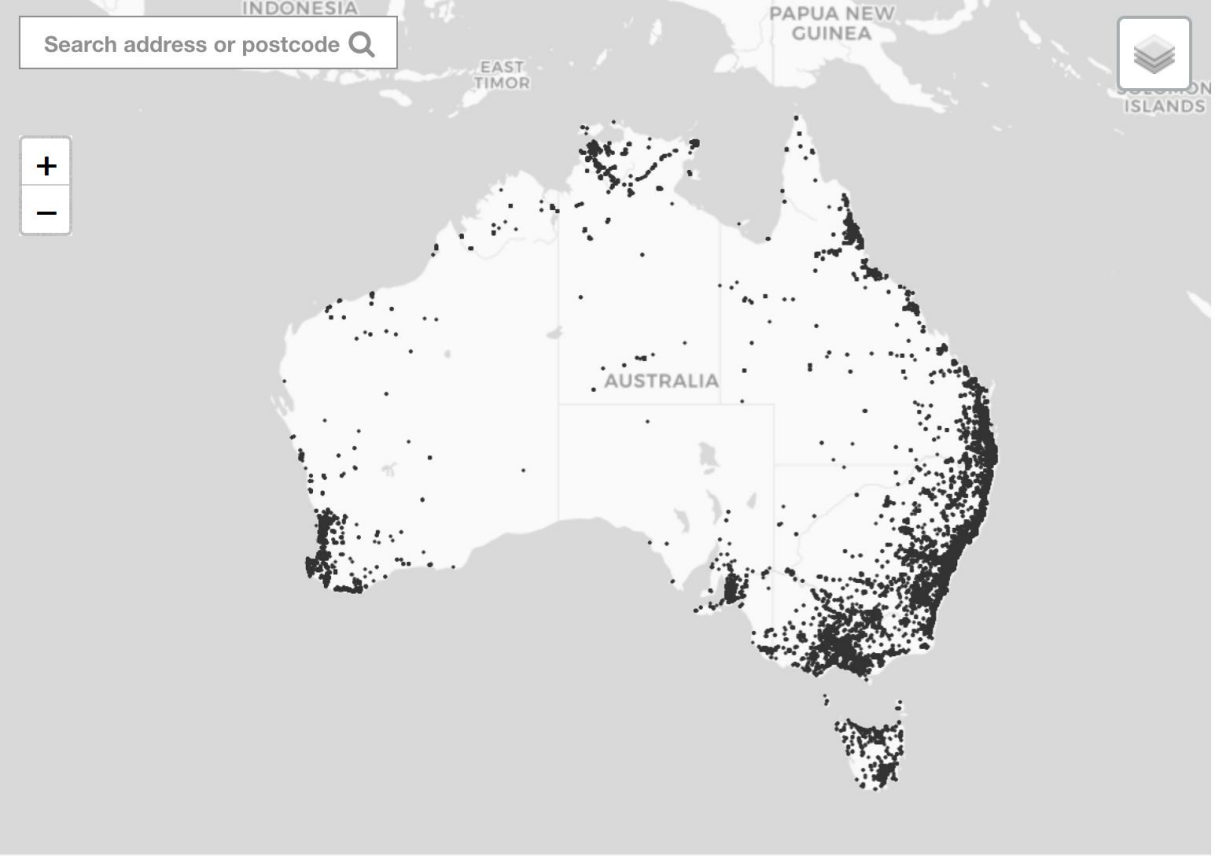
View as table

2018 2019

467
Records of frogs

6
Unique species

58
Unique users



Start - End

2018 2019

View as table

89,235
Records of frogs

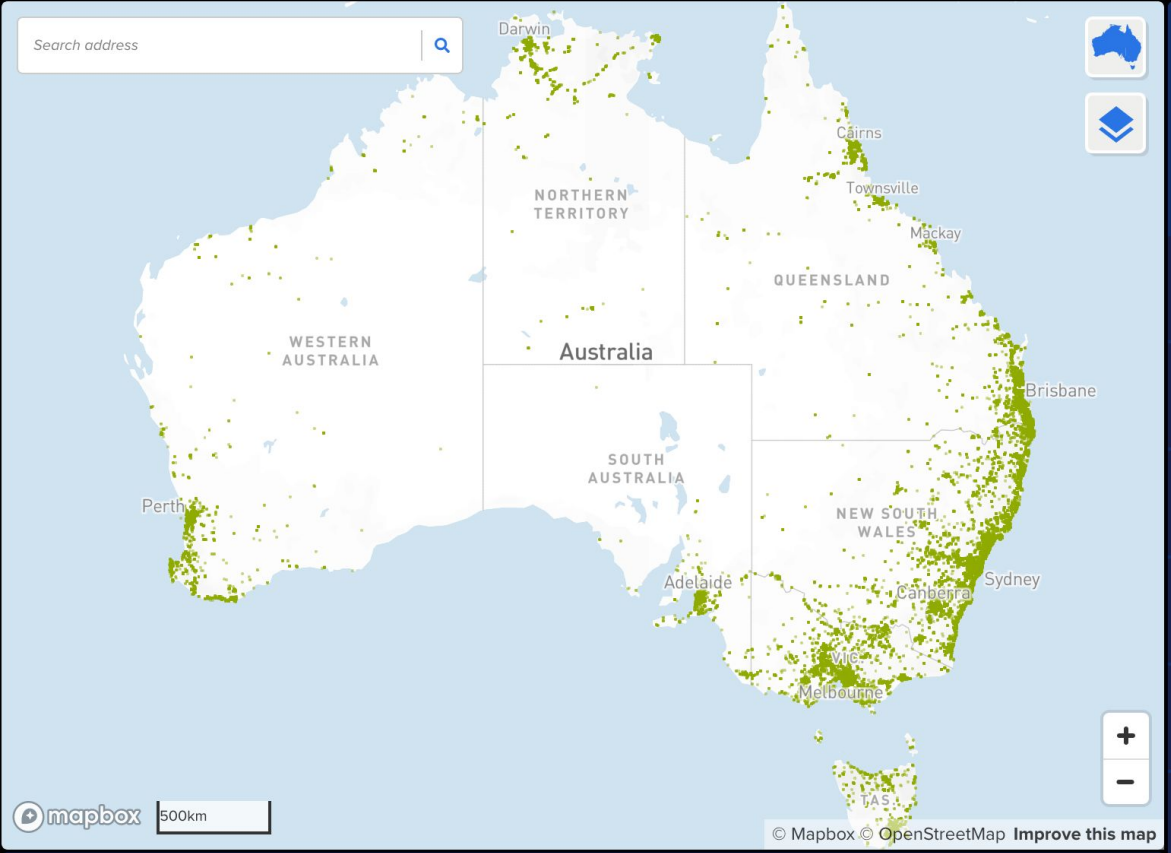
186
Unique species

8,744
Unique users

Search for species

Select a species to see the distribution on the map

Frog species	Records
Common Eastern Froglet *Crinia signifera*	10,575
Striped Marsh Frog *Limnodynastes peronii*	8,819
Peron's Tree Frog *Litoria peronii*	8,135
Eastern Dwarf Tree Frog *Litoria fallax*	6,145
Spotted Marsh Frog *Limnodynastes tasmaniensis*	4,202
Green Tree Frog *Litoria caerulea*	3,676
Red Tree Frog *Litoria rubella*	2,987
Brown Tree Frog *Litoria ewingii*	2,771
Eastern Banjo Frog *Limnodynastes dumerilii*	2,769
Eastern Sign-bearing Froglet *Crinia parinsignifera*	2,355



01 / 10 / 2017 - 27 / 08 / 2019

View as table

Records of frogs 98,444

Unique species 154

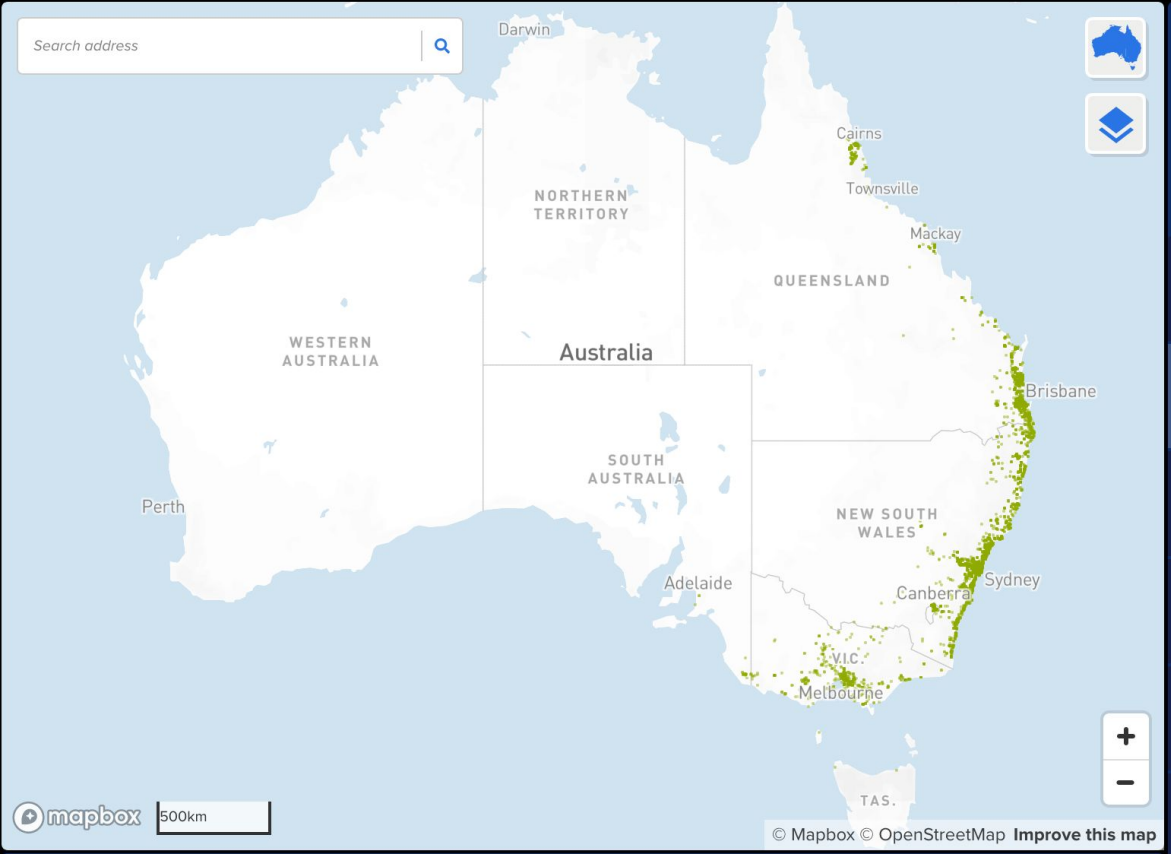
Unique users 9,327

Species | LGA

Search for species

Select a species to see the distribution on the map

Frog species	Records ▼
Common Eastern Froglet	
Crinia signifera	13,291
Striped Marsh Frog	
Limnodynastes peronii	9,614
Peron's Tree Frog	
Litoria peronii	8,422
Eastern Dwarf Tree Frog	
Litoria fallax	6,402
Spotted Marsh Frog	
Limnodynastes tasmaniensis	4,414
Green Tree Frog	
Litoria caerulea	3,777
Brown Tree Frog	
Litoria ewingii	3,438
Rattling Froglet	
Crinia glauerti	3,208

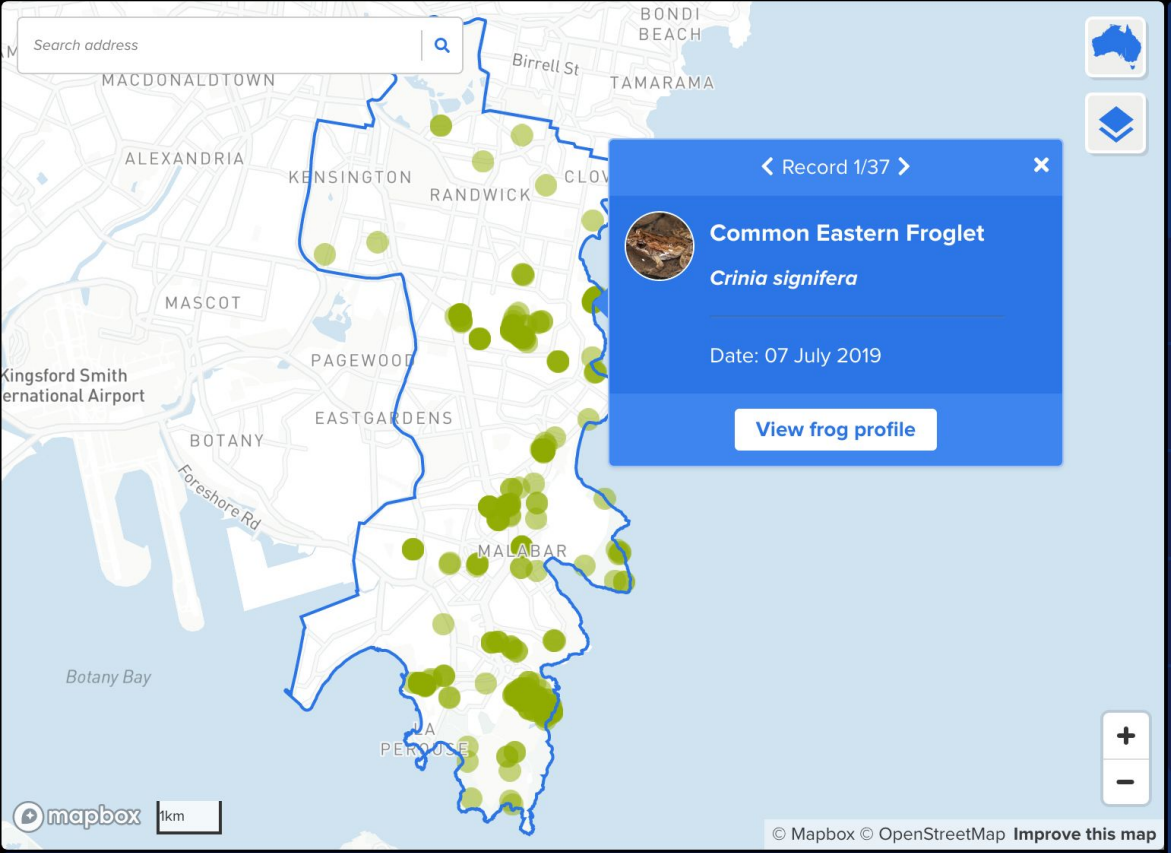


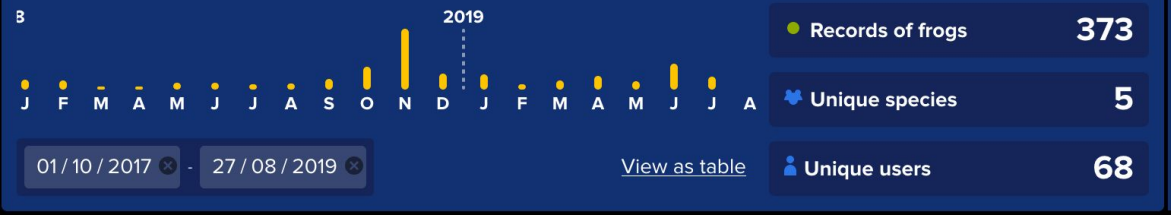
Species | LGA

Search for species

Deselect "Striped Marsh Frog"

Frog species	Records ▼
Common Eastern Froglet	
Crinia signifera	13,291
Striped Marsh Frog	
Limnodynastes peronii	
Peron's Tree Frog	
Litoria peronii	8,422
Eastern Dwarf Tree Frog	
Litoria fallax	6,402
Spotted Marsh Frog	
Limnodynastes tasmaniensis	4,414
Green Tree Frog	
Litoria caerulea	3,777
Brown Tree Frog	
Litoria ewingii	3,438
Rattling Froglet	
Crinia glauerti	3,208





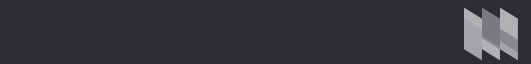
Species | LGA

Search for species

Select a species to see the distribution on the map

Frog species	Records ▼
Common Eastern Froglet	
Crinia signifera	137
Striped Marsh Frog	
Limnodynastes peronii	96
Peron's Tree Frog	
Litoria peronii	83
Eastern Dwarf Tree Frog	
Litoria fallax	56
Green Stream Frog	
Litoria phyllochroa	1

Looks awesome!



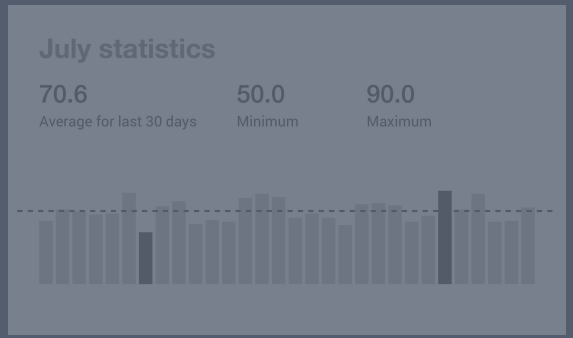
Why not always use real data
when designing wireframes?

Sometimes, there is no real
data available.

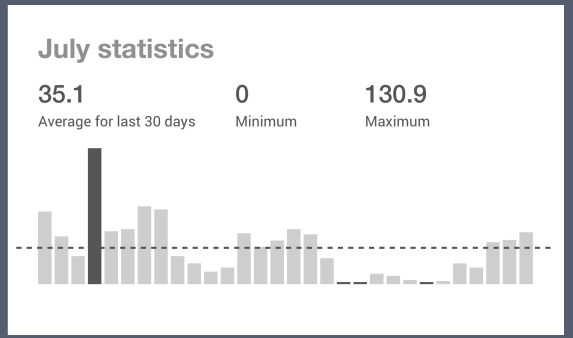
Strategies for datavis wireframes

Placeholder data

Meaningful but random data



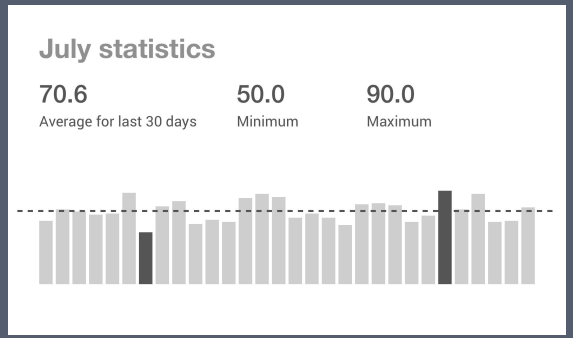
Real data



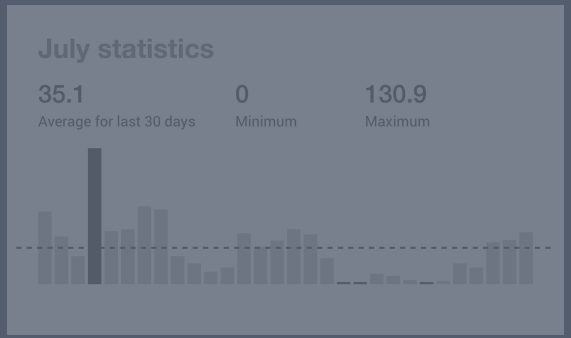
Strategies for datavis wireframes

Placeholder data

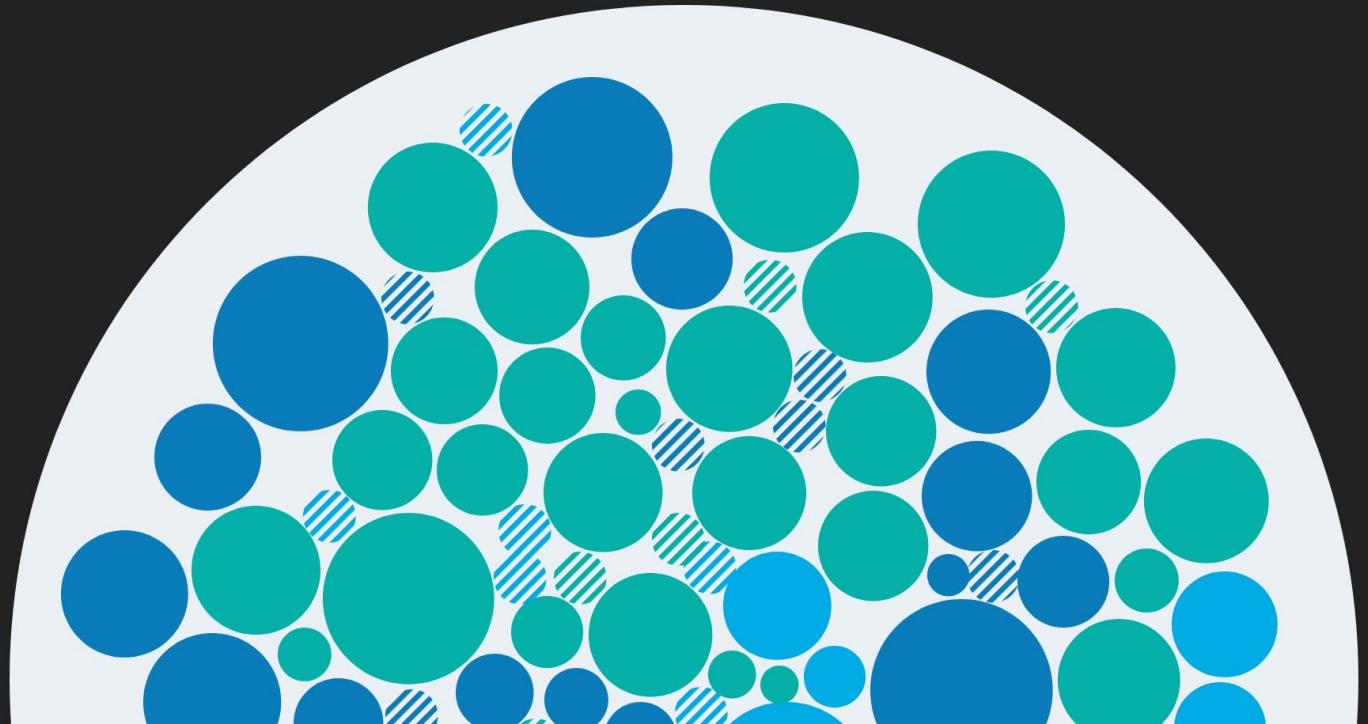
Meaningful but random data



Real data



Visualising clusters of NSW government agencies and their projects



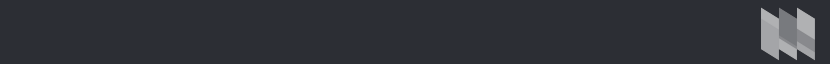
Visualising clusters of NSW government agencies and their projects

Project brief

Interactive online visualisation of NSW government projects. Show alignment with the three priorities of the digital strategy.

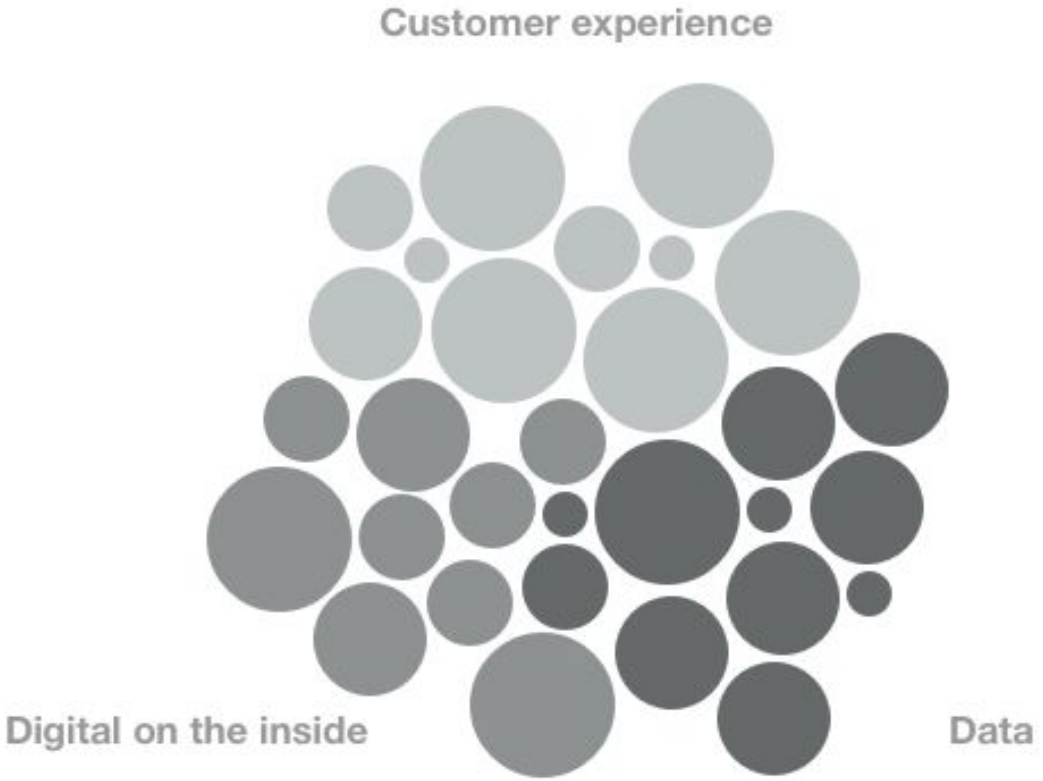
Arrange projects by

- Government cluster
- Priority
- Budget



Clusters of NSW government projects

- 30 projects
- 3 strategies
- 3 budget groups (major, medium, small)

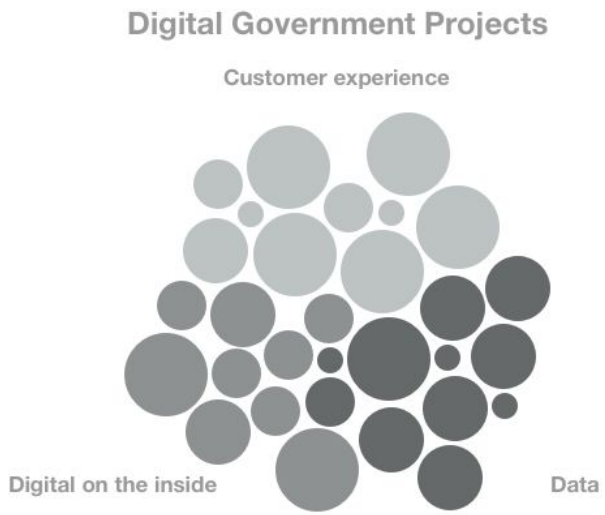


Digital government at a glance

Lorem ipsum

Lorem ipsum 10 clusters sine dolor 3 priorities lorem ipsum budget by circle area. Lorem ipsum 3 projects sine dolor ordered by budget sum.

By cluster | By priority | By budget



less $ more $

- Customer experience
- Data
- Digital on the inside

Digital government at a glance

Lorem ipsum

Lorem ipsum 10 clusters sine dolor 3 priorities lorem ipsum budget by circle area. Lorem ipsum 3 projects sine dolor ordered by budget sum.

By cluster | By priority | By budget

Major projects
Project budget more than $10,000,000

Medium
Project budget more than $1,000.000

Small projects
Project budget less than $1,000.000

less $ more $

- Customer experience
- Data
- Digital on the inside

Digital government at a glance

Births

Cluster: **Finance, Services and Innovation**
Agency: **Service**
Priority: **Digital on the inside**
Budget: **$10,500,000**
Supporting clusters: **Industry, Premier and Cabinet, Treasury**

Project excerpt:
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Lorem ipsum dolor sit amet, consectetur adipiscing elit.

Find out more >

less $ more $

- Customer experience
- Data
- Digital on the inside

By cluster

By priori

Births
Budget: **$10,500,000**
Find out more >

Major projects
Project budget more than $10,000,000

Medium
Project budget more than $1,000.000

Small projects
Project budget less than $1,000.000

Digital government at a glance

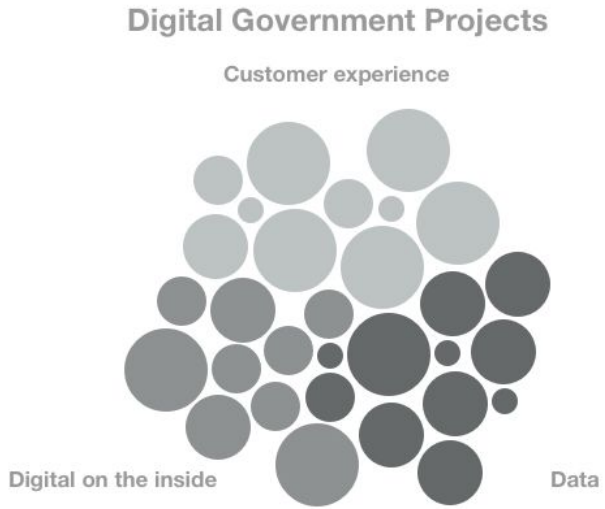
Lorem ipsum

Lorem ipsum 10 clusters sine dolor 3 priorities lorem ipsum budget by circle area. Lorem ipsum 3 projects sine dolor ordered by budget sum.

less $ more $

- Customer experience
- Data
- Digital on the inside

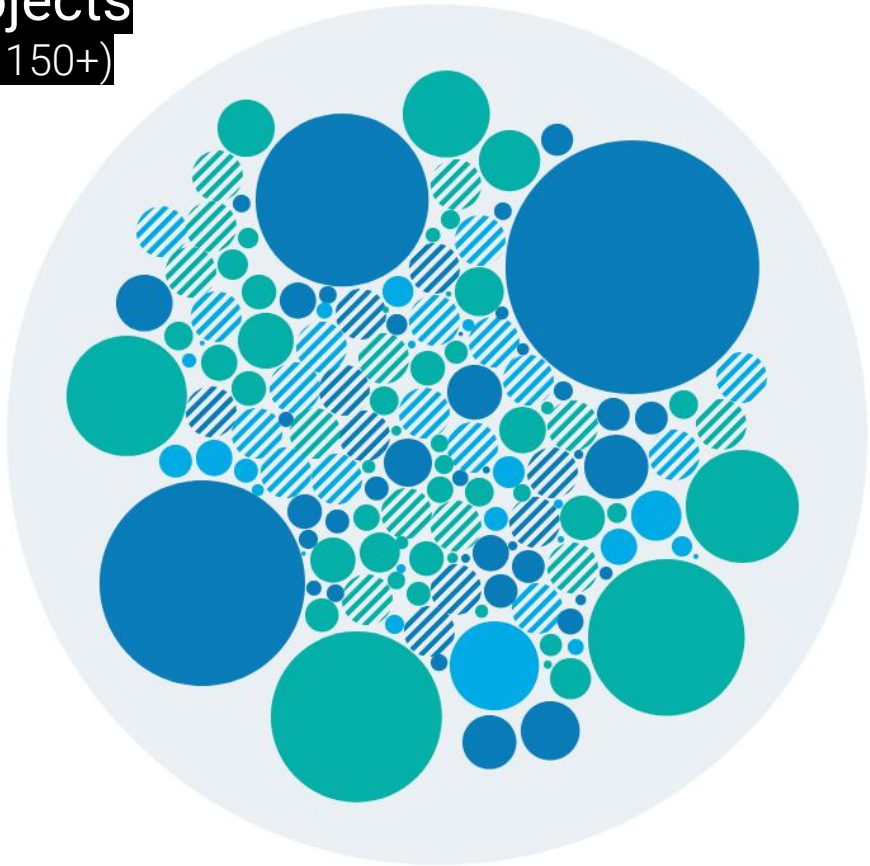
By cluster | By priority | By budget



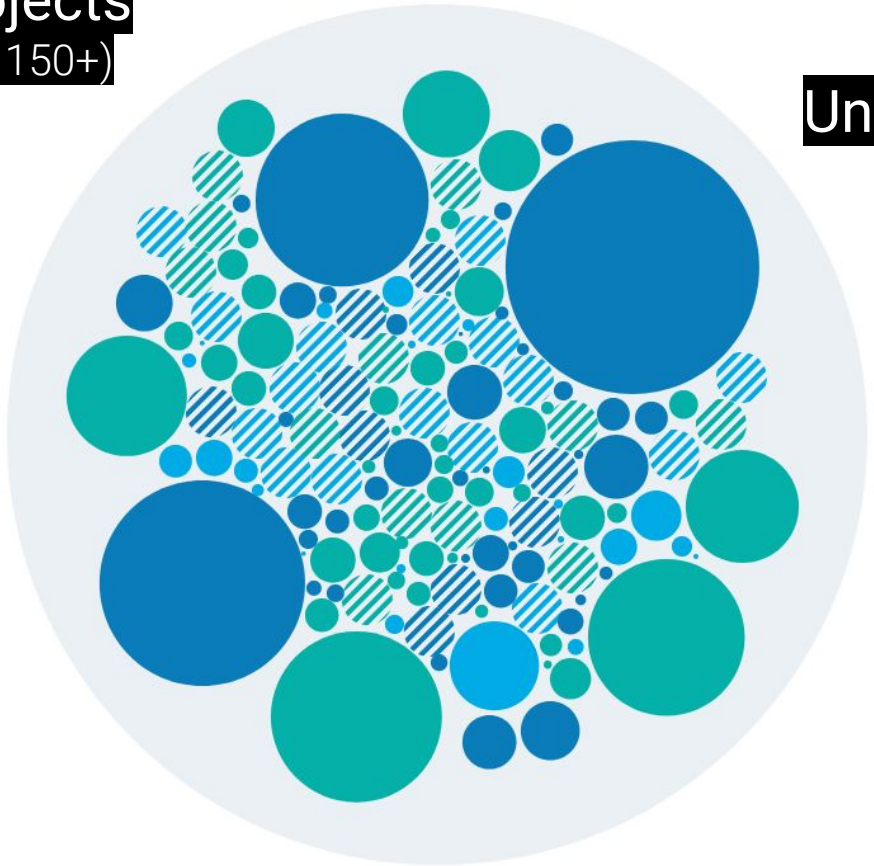
By Cluster | By Priority | By Budget

Digital Government Projects

More projects
(not 30 but 150+)



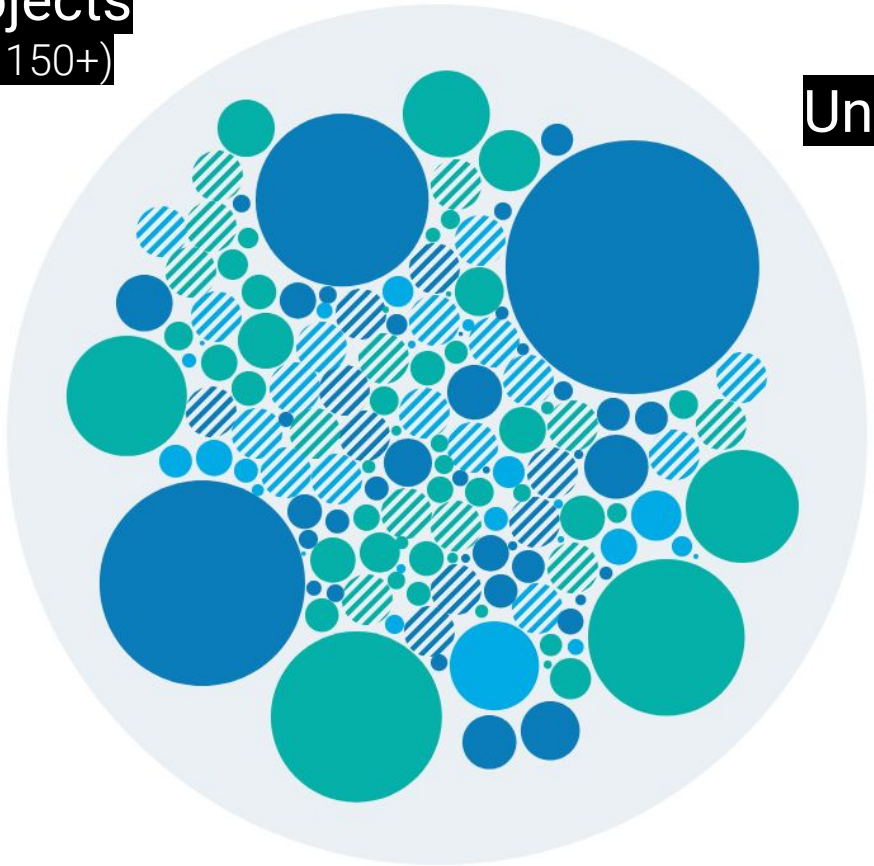
More projects
(not 30 but 150+)



Unknown budget
(pattern)

More projects
(not 30 but 150+)

Unknown budget
(pattern)



Huge difference
in budget
(bubble size)

Clusters of NSW government projects

Projects with small budgets are too small to be clickable.

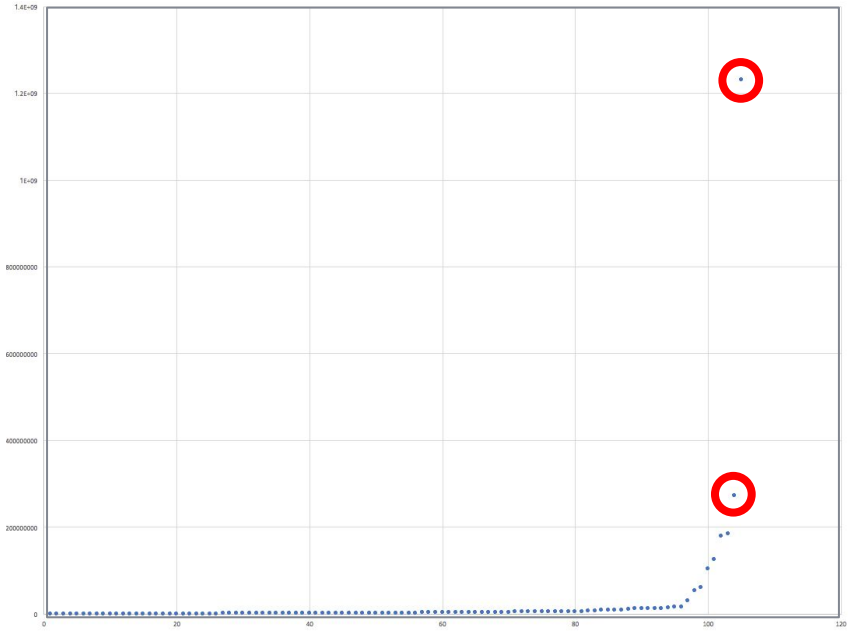
Projects with large budgets attract too much attention.

Clusters of NSW government projects

Changing the scaling of circle sizes: Linear vs logarithmic.

Linear scaling emphasises outlier.

Linear scale

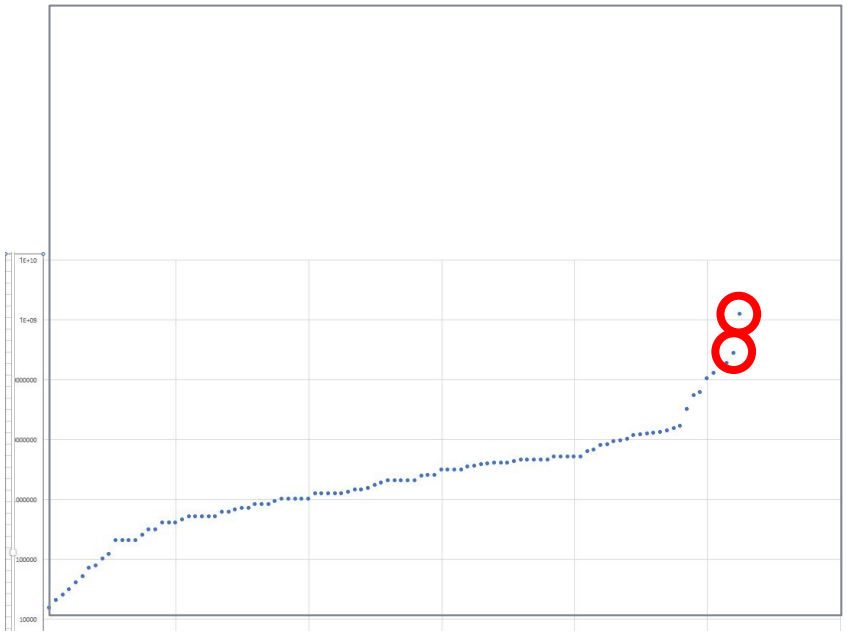


Clusters of NSW government projects

Changing the scaling of circle sizes: Linear vs logarithmic.

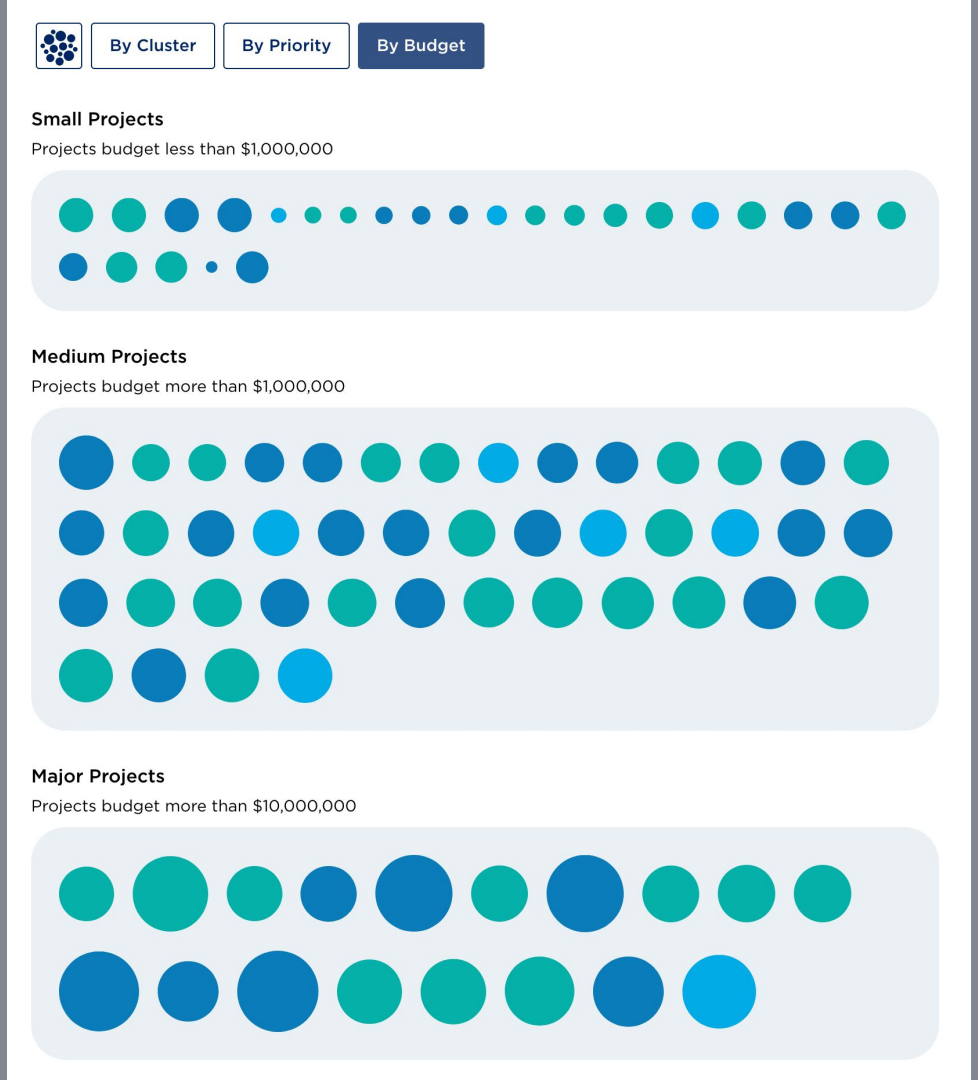
Logarithmic scaling brings outliers closer togehter.

Logarithmic scale



Clusters of NSW government projects

Small projects appear larger and large projects appear smaller.



Lorem ipsum

Lorem ipsum 10 clusters sine dolor 3 priorities lorem ipsum budget by circle area. Lorem ipsum 3 projects sine dolor ordered by budget sum.

less $ more $

Customer experience

Data

Digital on the inside

By cluster | By priority | By budget

Major projects

Project budget more than $10,000,000

Medium

Project budget more than $1,000.000

Small projects

Project budget less than $1,000.000

By Cluster | By Priority | By Budget

Project Budget

Less $ More $

Budget not specified

Digital Government Priority

Customer Experience

Digital On The Inside

Data

Small Projects

Projects budget less than $1,000,000

Medium Projects

Projects budget more than $1,000,000

Major Projects

Projects budget more than $10,000,000

Budget Not Specified

Clusters of NSW government projects

Push for detailed information about key parameters in order to generate random but meaningful data

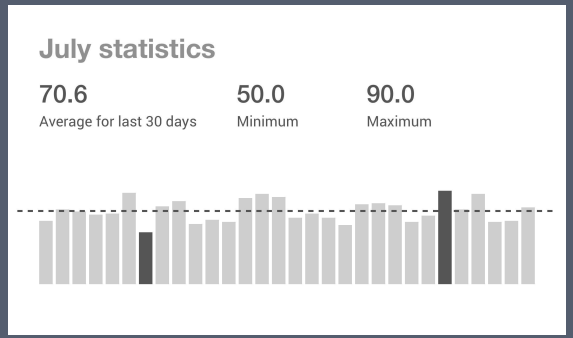
Get your key parameters right

Total number: ~~30~~ 150 projects
Minimum budget: ~~$250K~~ $15K
Maximum budget: ~~$10.5M~~ $273M

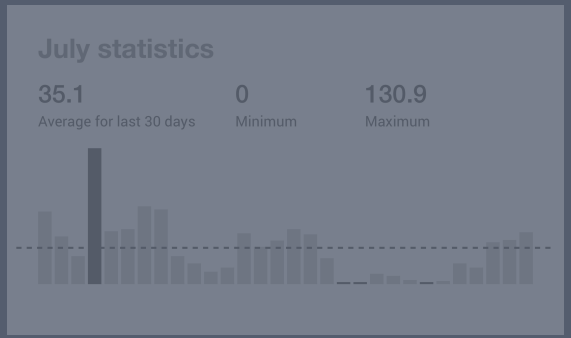
Strategies for datavis wireframes

Placeholder data

Meaningful but random data



Real data



Strategies for datavis wireframes

Placeholder data

July statistics

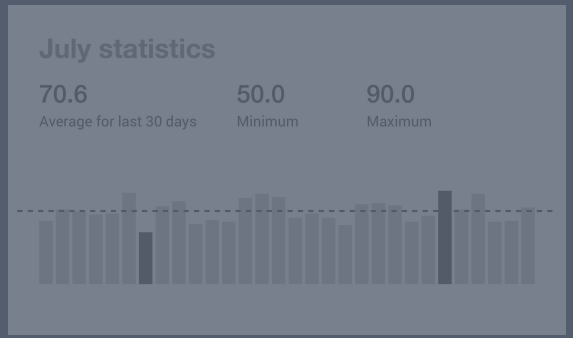
123
Average for last 30 days

123
Minimum

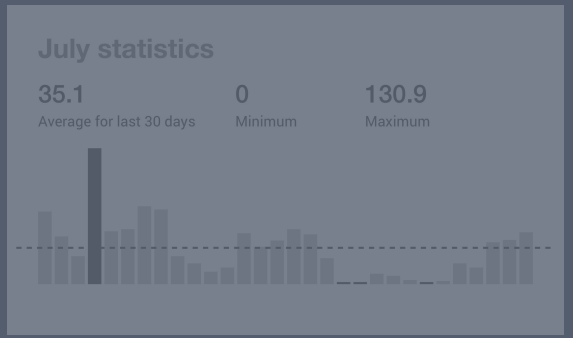
123
Maximum

Barchart last 30 days
Average line

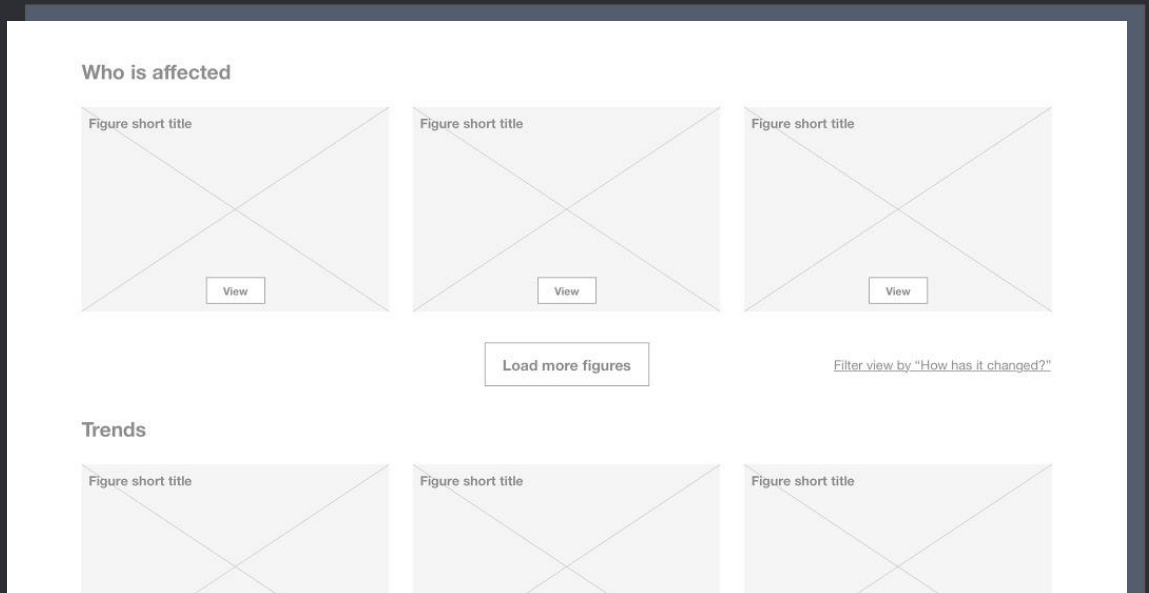
Meaningful but random data



Real data



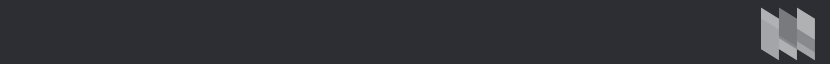
Portal for data on poverty and inequality in Australia



Portal for data on poverty and inequality in Australia

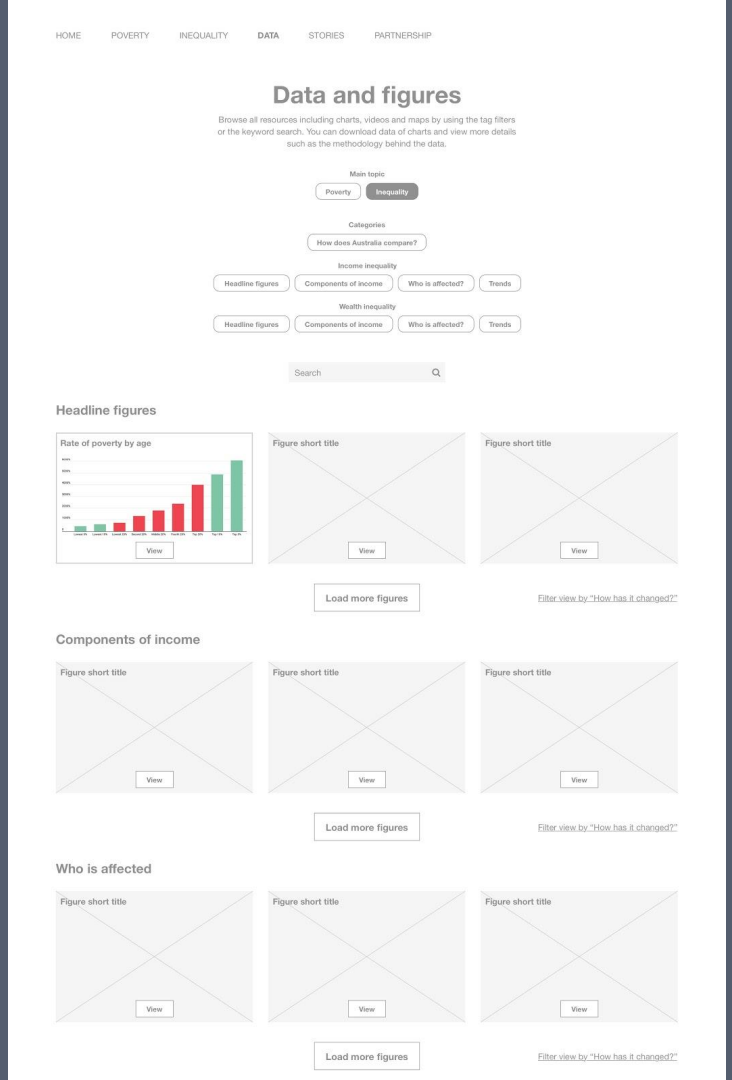
Project brief

Create a website that showcases existing figures and charts about poverty and inequality in Australia. Include filters to let the user explore figures by theme.



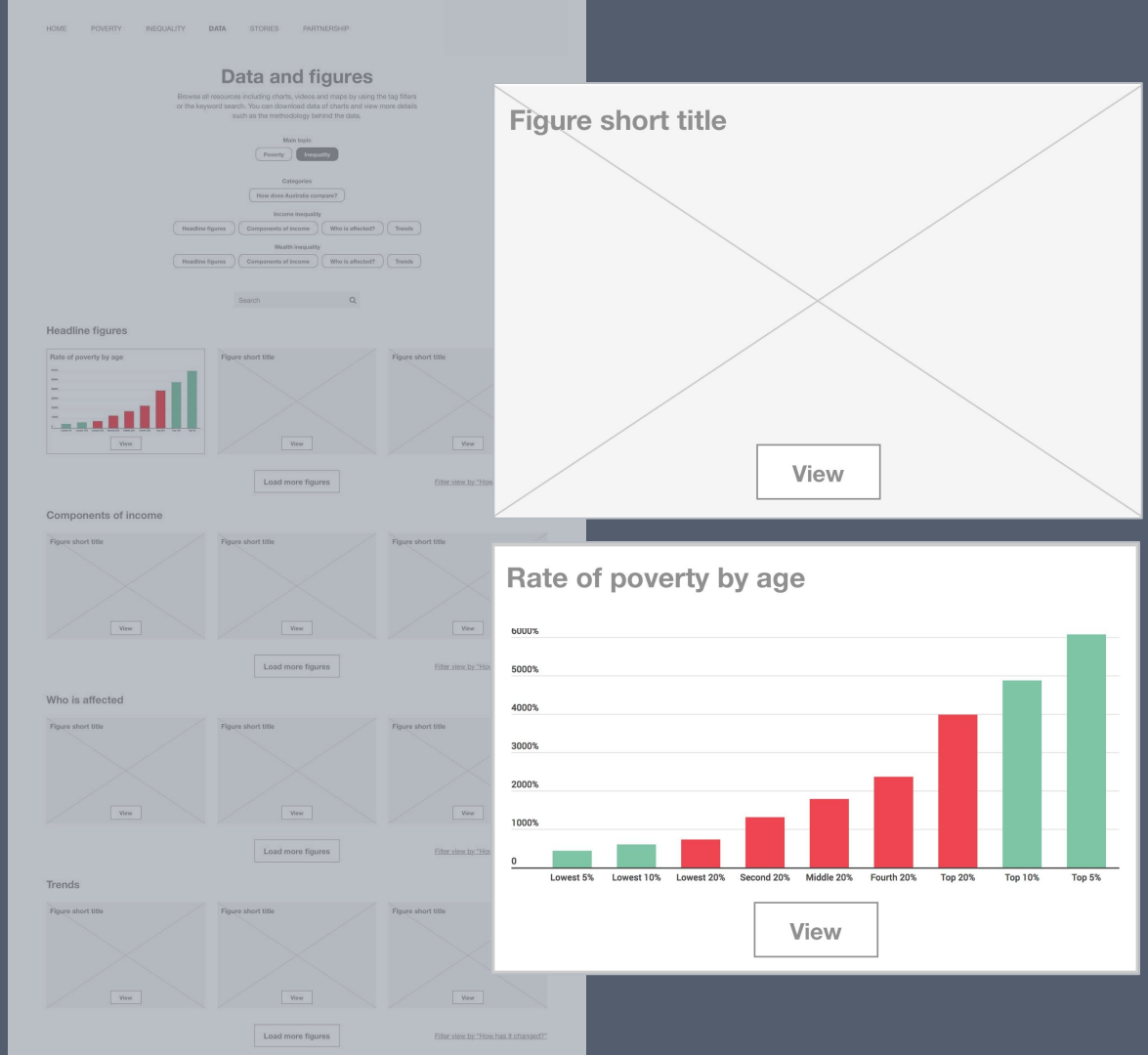
Portal for data on poverty and inequality in Australia

Placeholder elements used for charts; only one actual chart shown to communicate look and feel.



Portal for data on poverty and inequality in Australia

Placeholder elements used for charts; only one actual chart shown to communicate look and feel.



Strategies for datavis wireframes

Placeholder data

July statistics

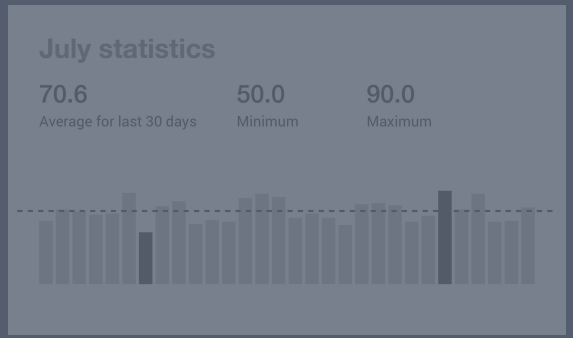
123
Average for last 30 days

123
Minimum

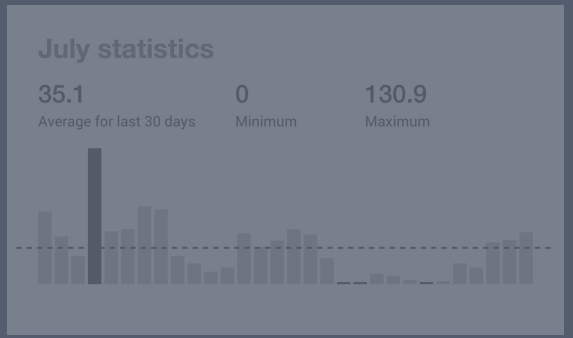
123
Maximum

Barchart last 30 days
Average line

Meaningful but random data



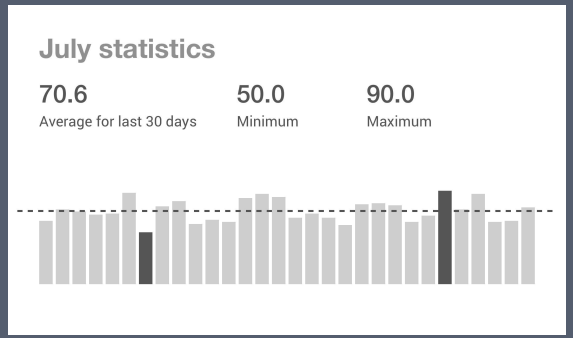
Real data



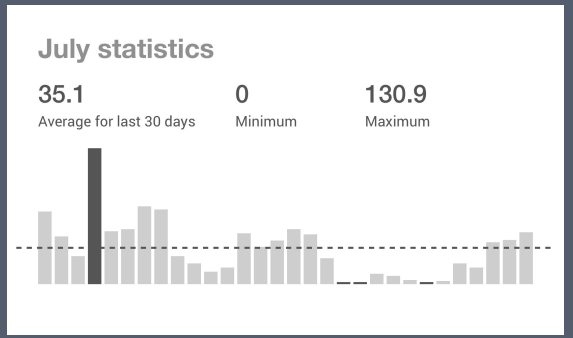
Strategies for datavis wireframes

Placeholder data

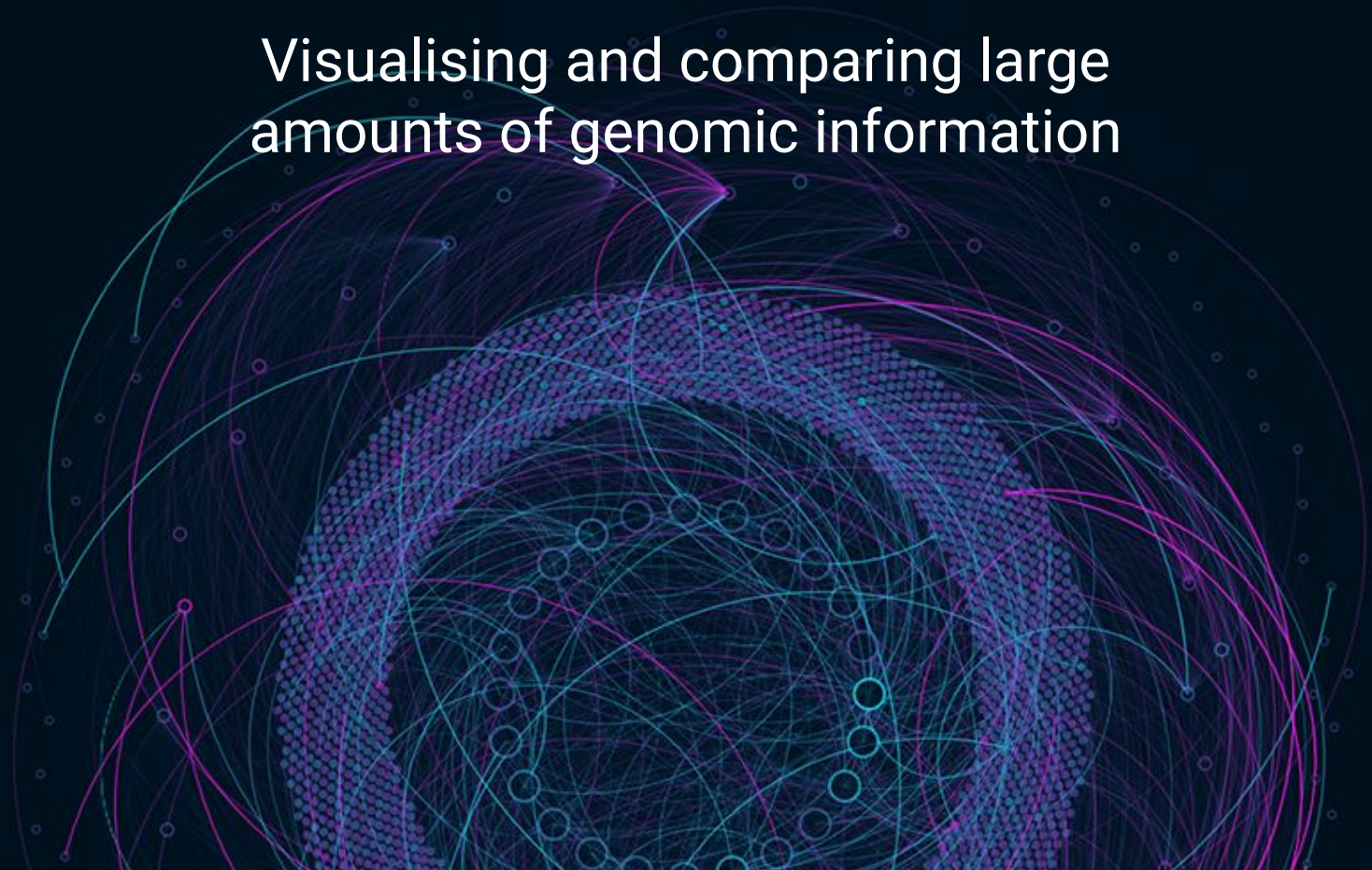
Meaningful but random data



Real data



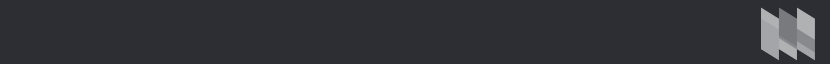
Visualising and comparing large amounts of genomic information



Visualising and comparing large amounts of genomic information

Project brief

Explore network of chromosomes, mRNAs, microRNAs and proteins to support study of neurodegenerative diseases like Alzheimer’s.



Multi-Omics Visualiser

CURRENT DATA

PATIENT A

MINIMUM NODE WEIGHT

0.00

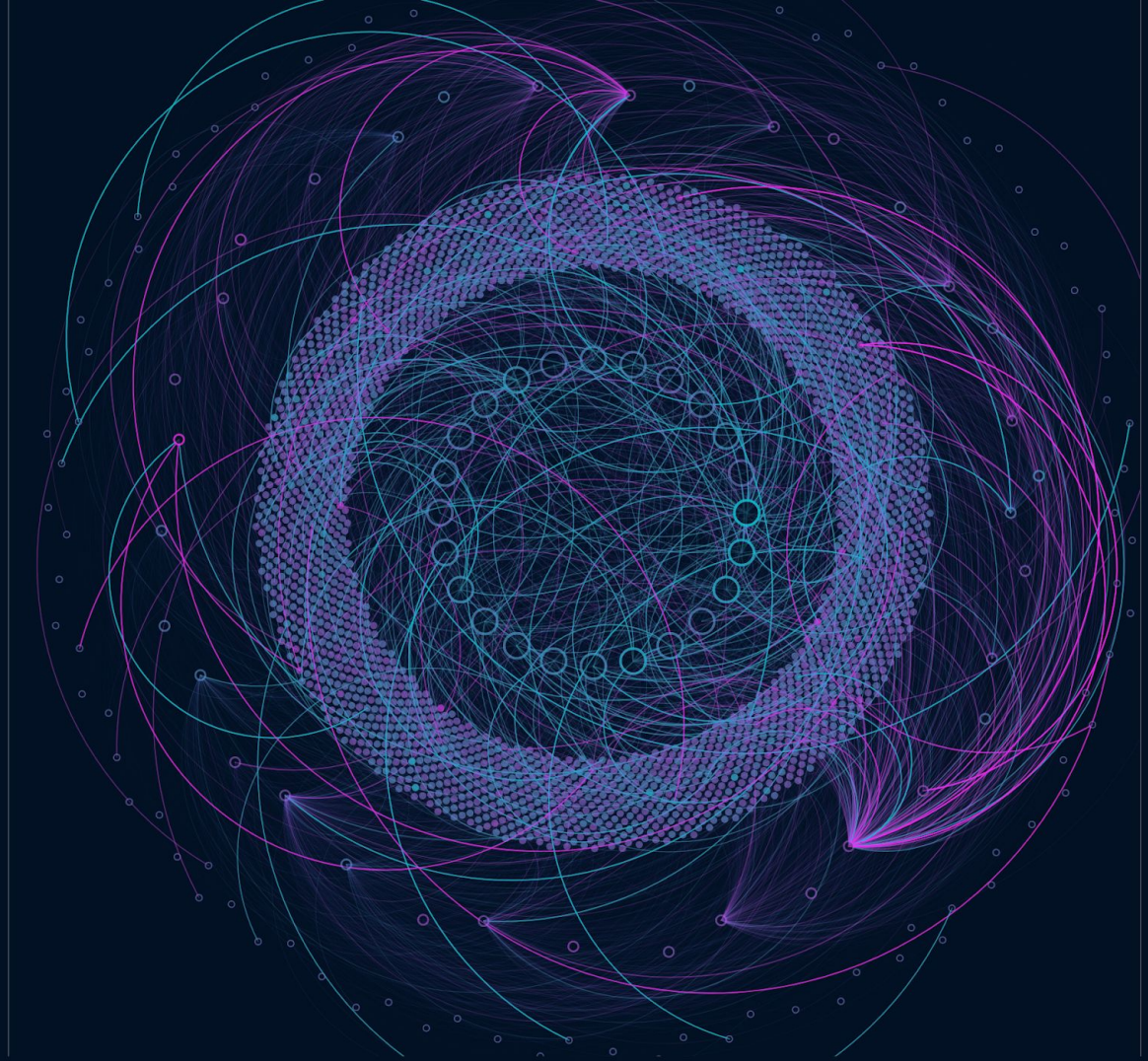
MINIMUM LINE WEIGHT

0.00

SHOW NODES WITHOUT CONNECTIONS

SHOW PATHWAY

Select...



Multi-Omics Visualiser

CURRENT DATA

PATIENT A >

MINIMUM NODE WEIGHT

0.00

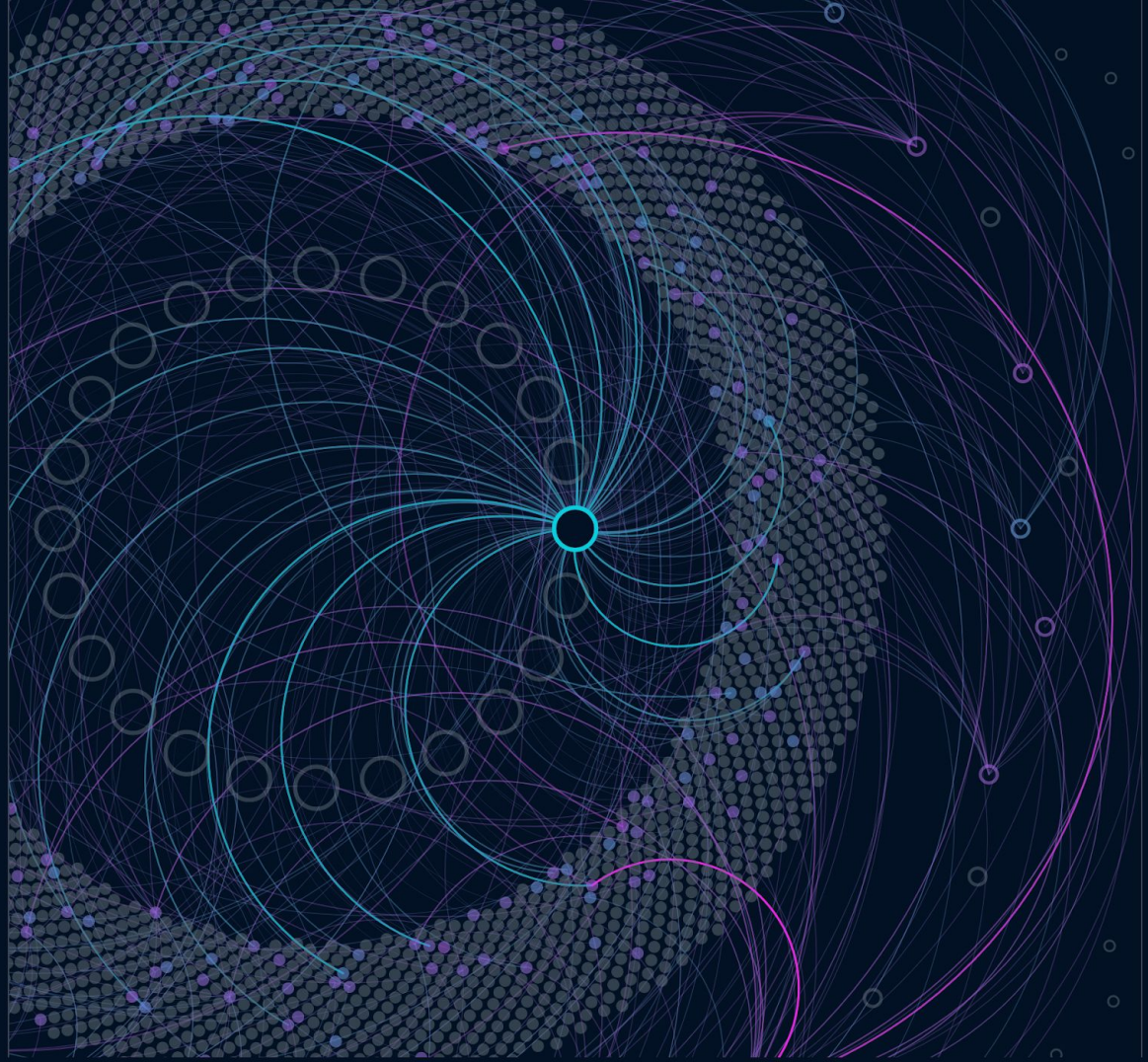
MINIMUM LINE WEIGHT

0.00

SHOW NODES WITHOUT CONNECTIONS

SHOW PATHWAY

Select...



Chromosome 1

DESELECT

Weight +1

Visualised Genes +425

Genes on chromosome

GNG4*
18 variations >

RHOU*
16 variations >

LYST
15 variations >

KIF26B*
14 variations >

KIF1B
13 variations >

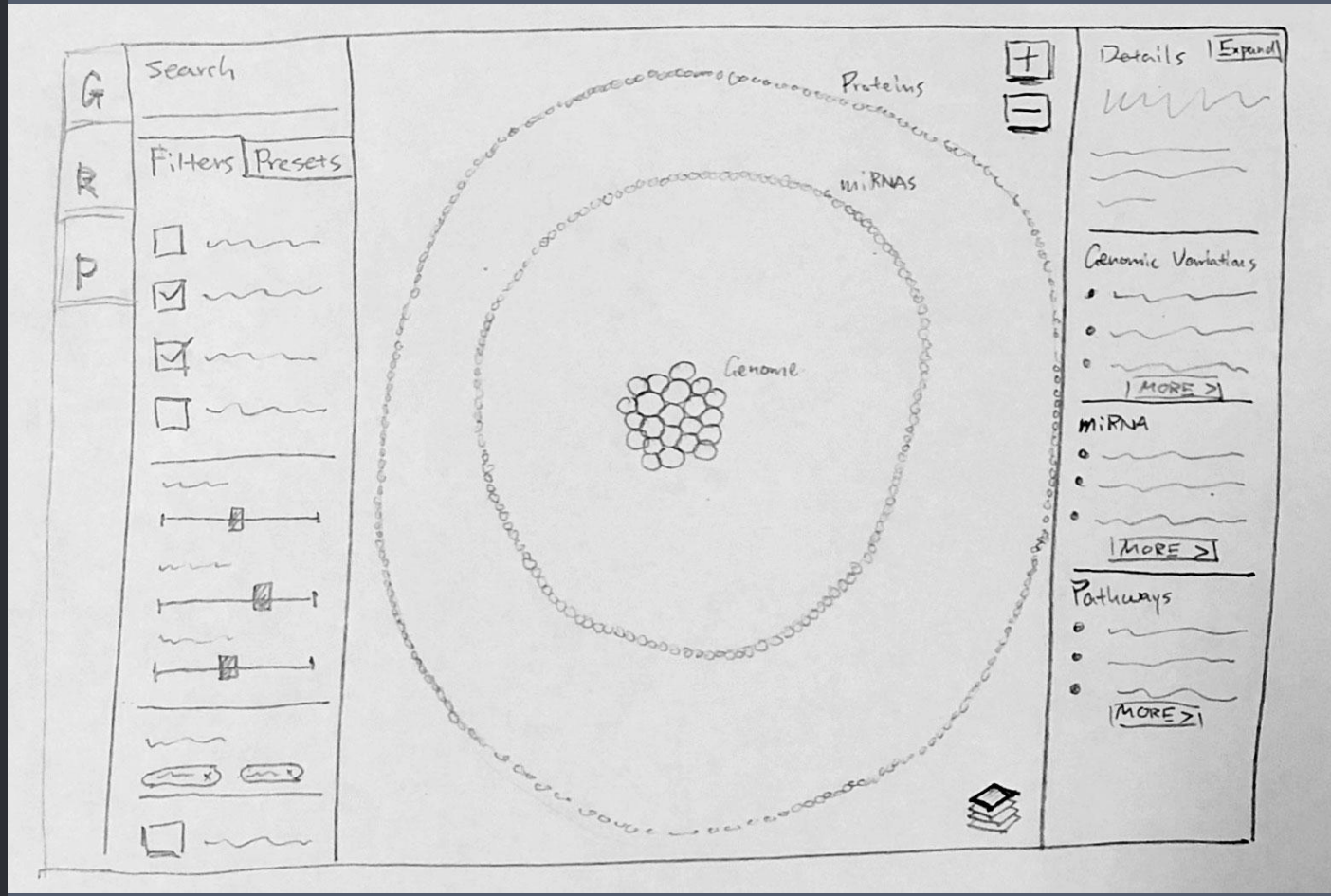
ZNF678*
13 variations >

How would you create wireframes for something that complex?

You don’t.

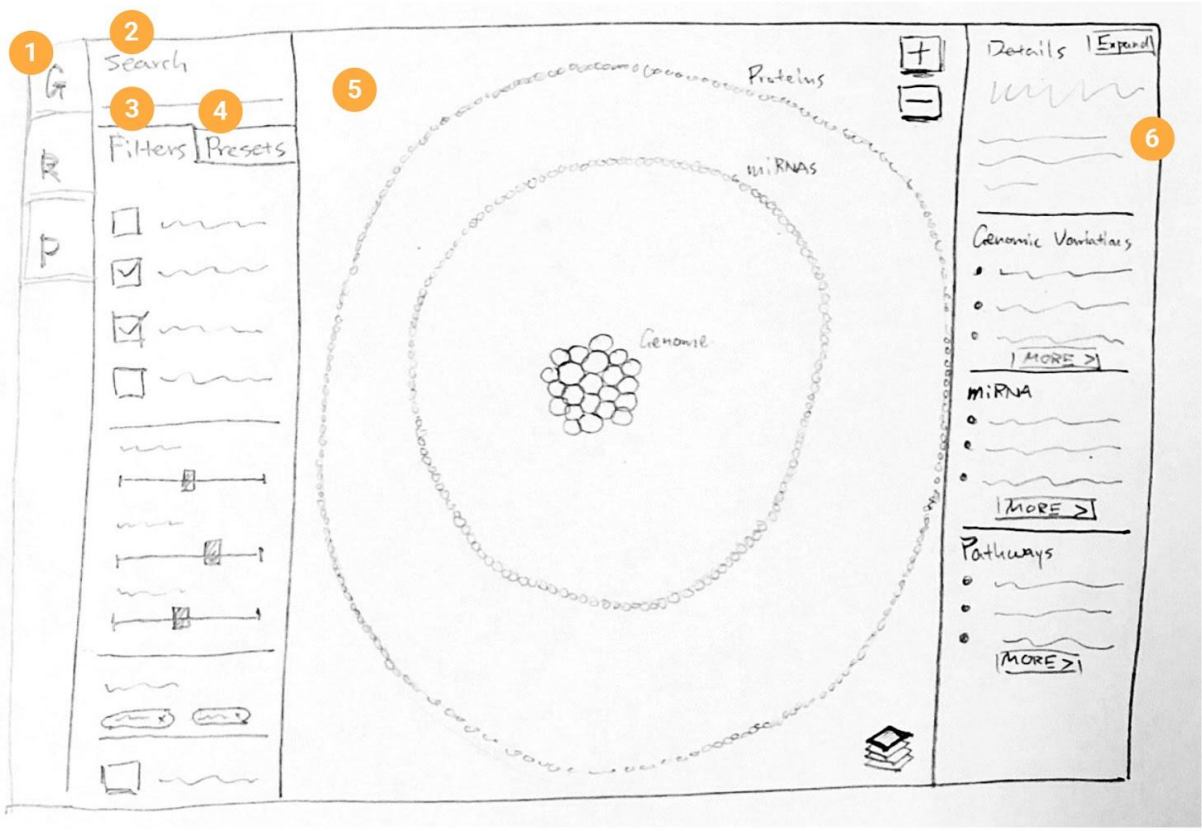
Visualising and comparing large amounts of genomic information

Sketches + detailed annotations to communicate visuals, interactions and insights.

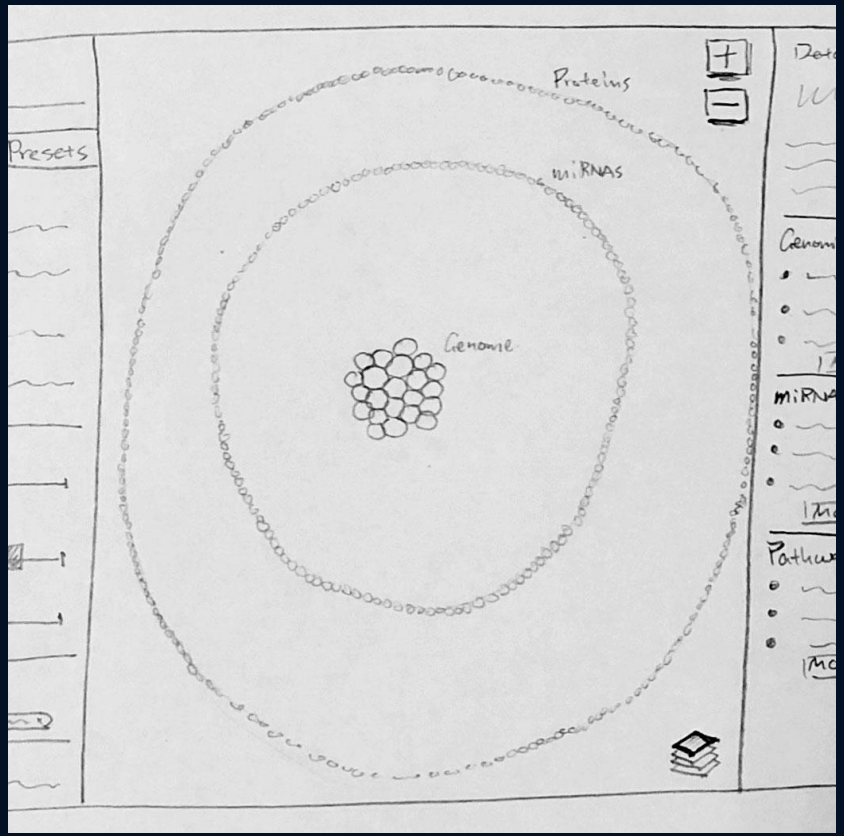


Notes

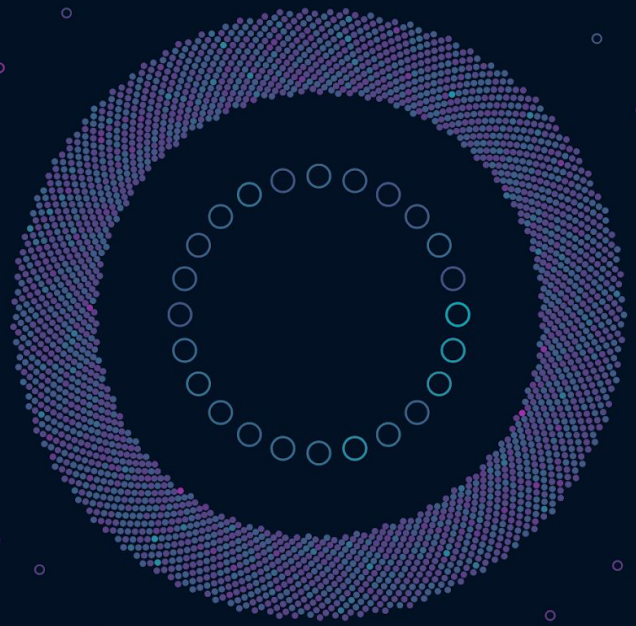
1. ‘Realms’: Visualisation layers containing Genome (G), miRNA (R), Proteome (P) can be independently turned on or off
2. Search across *realms* by entity ID
3. Filters: build criteria based on research goals to determine what entities and connections to show
4. Presets: add research data and/or reference or example data sets to the visualisation
5. Interactive visualisation
    a. Entities from the same realm are grouped together
    b. Each realm occupies a defined, non-overlapping region
    c. Unified symbology for entities to reduce complexity
6. Display detailed information on selected entity



Flat concentric circles



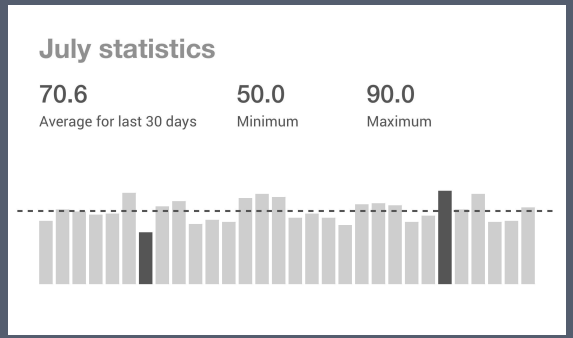
Dense arrangement inspired by nature



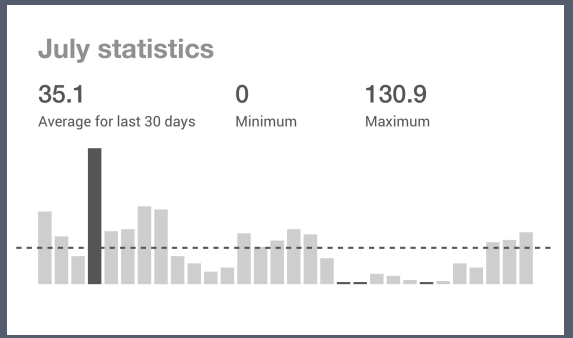
Strategies for datavis wireframes

Placeholder data

Meaningful but random data



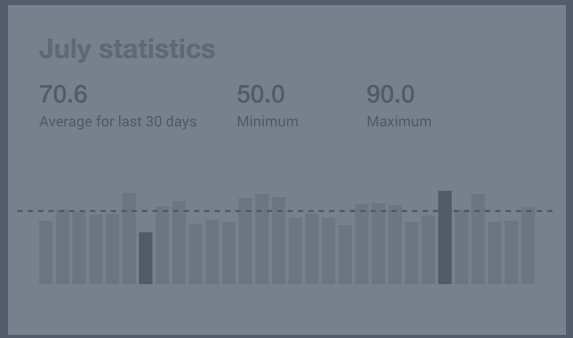
Real data



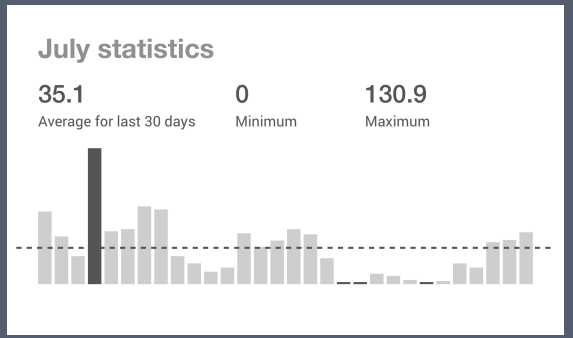
If data visualisation is fundamental for the structure or interaction use

Placeholder data

Meaningful but random data



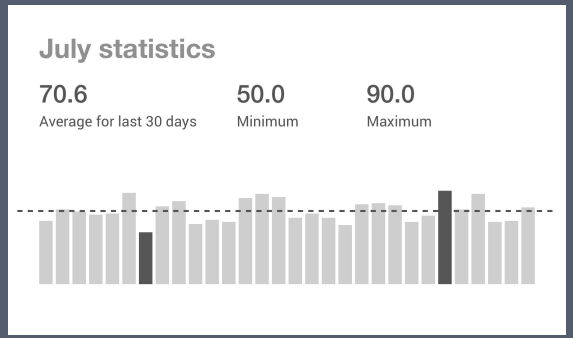
Real data



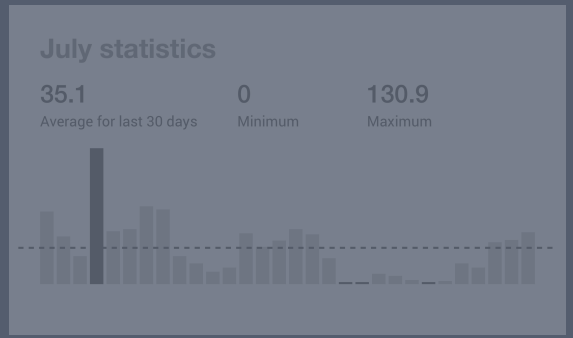
If you don’t have real data use

Placeholder data

Meaningful but random data



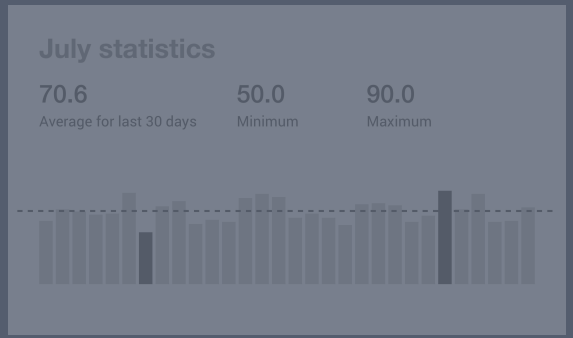
Real data



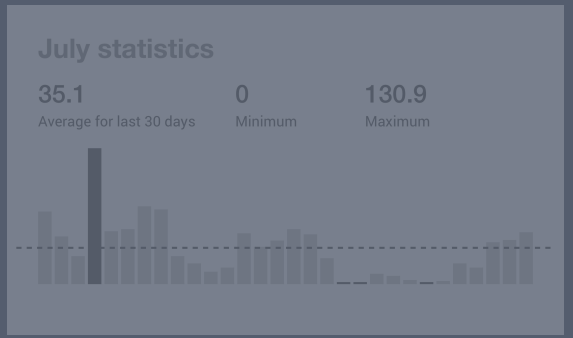
If data visualisation is not fundamental for the structure or interaction use

Placeholder data

Meaningful but random data



Real data

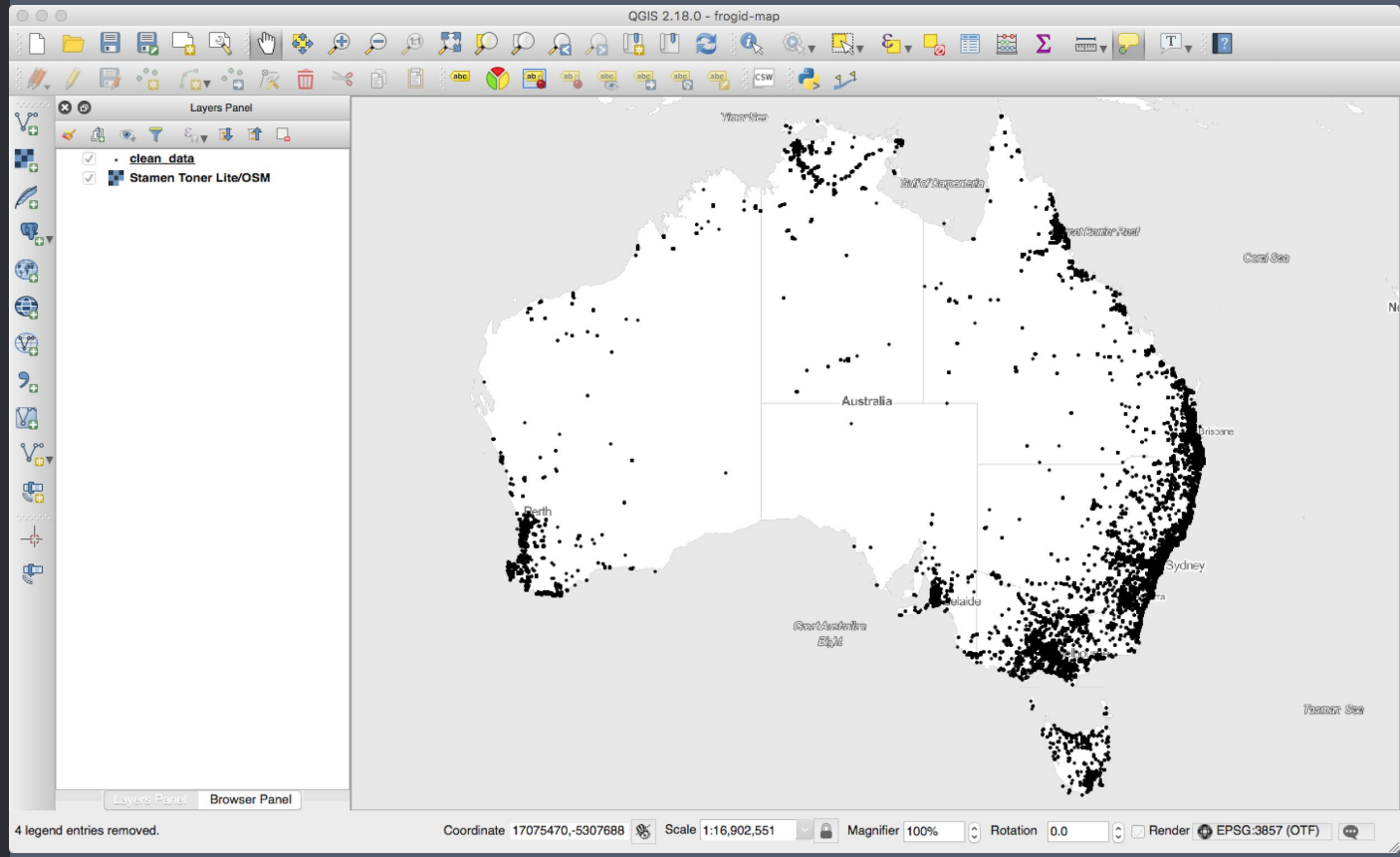


How to build wireframes that contain random or real data?

Import graphics

Create charts using external software.

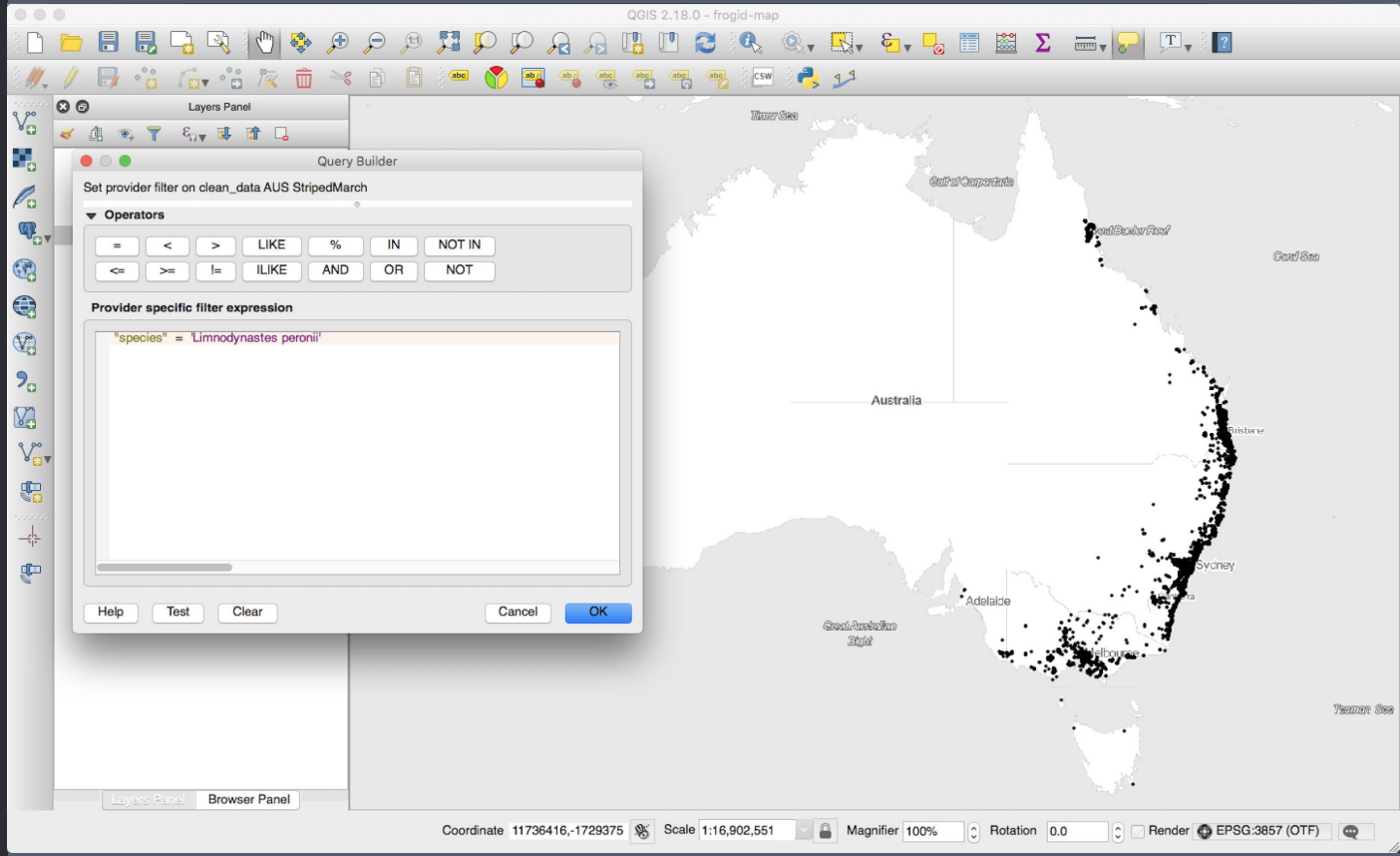
Maps for FrogID project were screenshots taken from QGIS.



Import graphics

Create charts using external software.

Maps for FrogID project were screenshots taken from QGIS.




Sketch

+


Data Populator

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

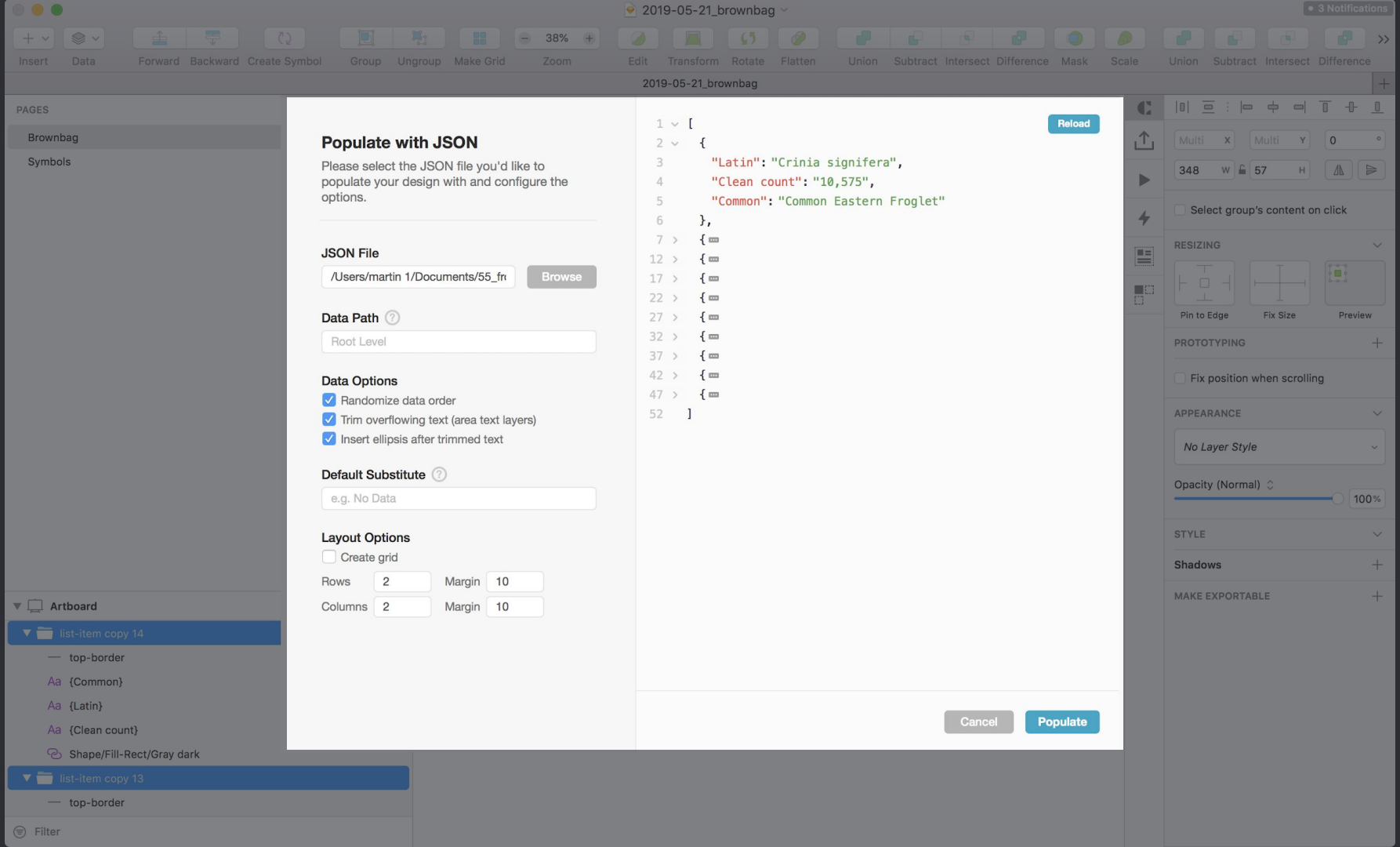
{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}


2019-05-21_brownbag
3 Notifications
Insert
Data
Forward
Backward
Create Symbol
Group
Ungroup
Make Grid
38%
Zoom
Edit
Transform
Rotate
Flatten
Union
Subtract
Intersect
Difference
Mask
Scale
Union
Subtract
Intersect
Difference
2019-05-21_brownbag
PAGES
Brownbag
Symbols
Populate with JSON
Please select the JSON file you'd like to populate your design with and configure the options.
JSON File
/Users/martin 1/Documents/55_fr
Browse
Data Path
Root Level
Data Options
Randomize data order
Trim overflowing text (area text layers)
Insert ellipsis after trimmed text
Default Substitute
e.g. No Data
Layout Options
Create grid
Rows 2
Margin 10
Columns 2
Margin 10
Reload
[
{
"Latin": "Crinia signifera",
"Clean count": "10,575",
"Common": "Common Eastern Froglet"
},
{
{
{
{
{
{
{
{
]
Cancel
Populate
Artboard
list-item copy 14
top-border
{Common}
{Latin}
{Clean count}
Shape/Fill-Rect/Gray dark
list-item copy 13
top-border
Filter
Multi X
Multi Y
0
348 W
57 H
Select group's content on click
RESIZING
Pin to Edge
Fix Size
Preview
PROTOTYPING
Fix position when scrolling
APPEARANCE
No Layer Style
Opacity (Normal)
100%
STYLE
Shadows
MAKE EXPORTABLE

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

{Common} {Clean count}
{Latin}

Common Eastern Froglet *Crinia signifera*	10,575
Striped Marsh Frog *Limnodynastes peronii*	8,819
Peron's Tree Frog *Litoria peronii*	8,135
Eastern Dwarf Tree Frog *Litoria fallax*	6,145
Spotted Marsh Frog *Limnodynastes tasmaniensis*	4,202
Green Tree Frog *Litoria caerulea*	3,676
Red Tree Frog *Litoria rubella*	2,987
Brown Tree Frog *Litoria ewingii*	2,771
Eastern Banjo Frog *Limnodynastes dumerilii*	2,769
Eastern Sign-bearing Froglet *Crinia parinsignifera*	2,355

Rattling Froglet *Crinia glauerti*	2,317
Roth's Tree Frog *Litoria rothii*	1,896
Whistling Tree Frog *Litoria verreauxii*	1,637
Slender Tree Frog *Litoria adelaidensis*	1,542
Tusked Frog *Adelotus brevis*	1,521
Bleating Tree Frog *Litoria dentata*	1,477
Marbled Frog *Limnodynastes convexiusculus*	1,420
Tyler's Tree Frog *Litoria tyleri*	1,332
Graceful Tree Frog *Litoria gracilenta*	1,298
Northern Sedge Frog *Litoria bicolor*	1,184

Motorbike Frog *Litoria moorei*	1,151
Bumpy Rocket Frog *Litoria inermis*	1,110
Cane Toad *Rhinella marina*	1,027
Quacking Frog *Crinia georgiana*	980
Broad-palmed Rocket Frog *Litoria latopalmata*	976
Striped Rocket Frog *Litoria nasuta*	822
Western Banjo Frog *Limnodynastes dorsalis*	811
Giant Burrowing Frog *Cyclorana australis*	710
Ornate Burrowing Frog *Platyplectrum ornatum*	704
Dusky Toadlet *Uperoleia fusca*	668


Sketch

+


Chippencharts

2019-05-21_brownbag — Edited

3 Notifications

Insert Data Forward Backward Create Symbol Group Ungroup Make Grid 91% Zoom Edit Transform Rotate Flatten Union Subtract Intersect Difference Mask Scale Union Subtract Intersect Difference

2019-05-21_brownbag

PAGES

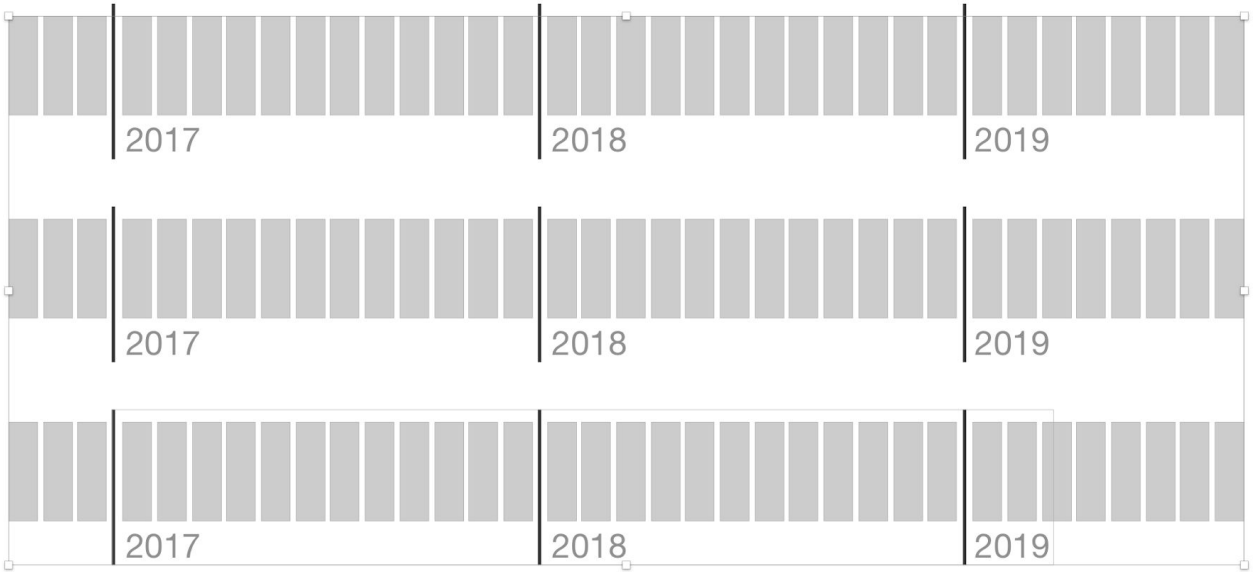
Brownbag

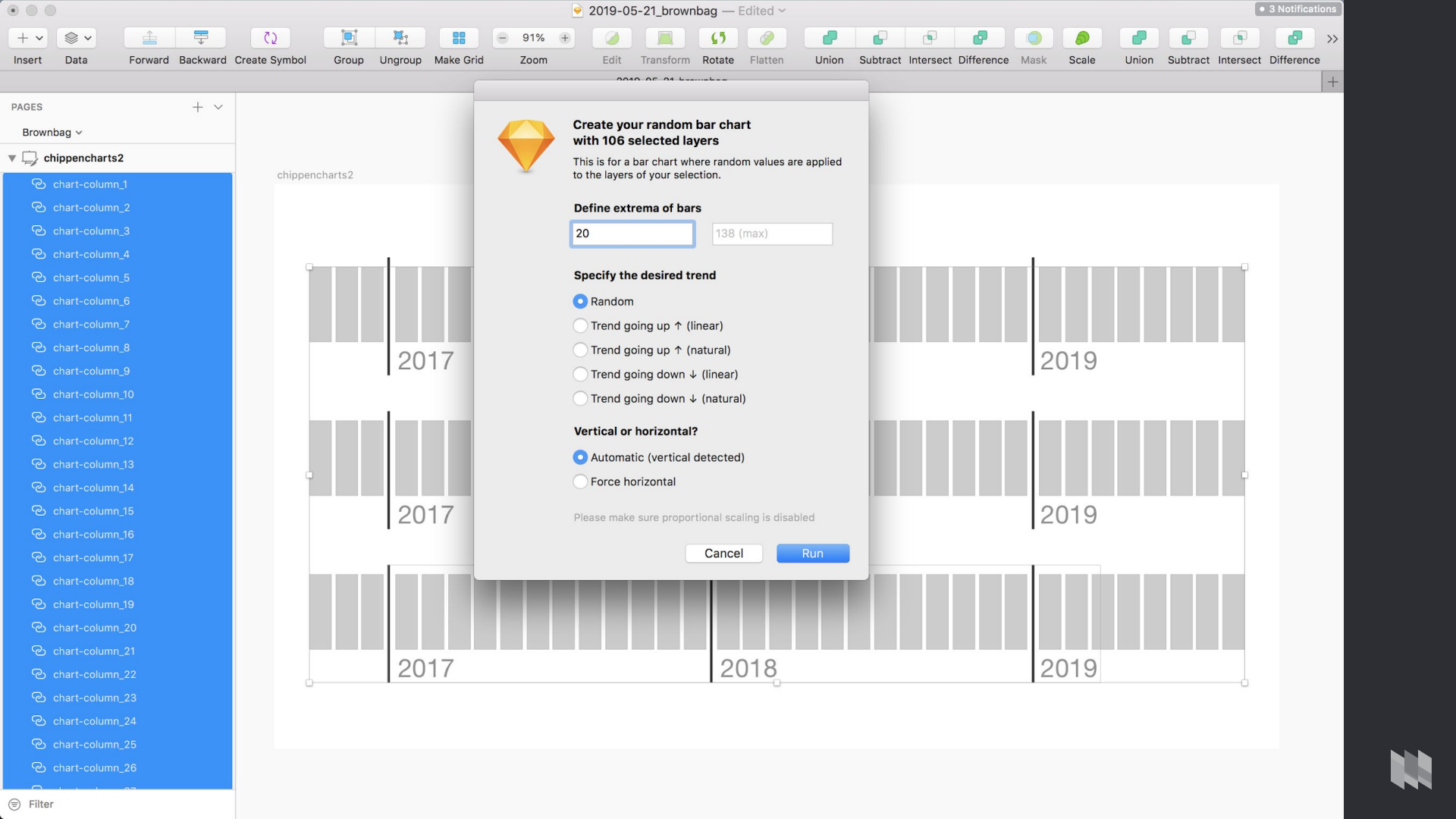
chippencharts2

- chart-column_1
- chart-column_2
- chart-column_3
- chart-column_4
- chart-column_5
- chart-column_6
- chart-column_7
- chart-column_8
- chart-column_9
- chart-column_10
- chart-column_11
- chart-column_12
- chart-column_13
- chart-column_14
- chart-column_15
- chart-column_16
- chart-column_17
- chart-column_18
- chart-column_19
- chart-column_20
- chart-column_21
- chart-column_22
- chart-column_23
- chart-column_24
- chart-column_25
- chart-column_26

Filter

chippencharts2




2019-05-21_brownbag — Edited
3 Notifications
Insert
Data
Forward
Backward
Create Symbol
Group
Ungroup
Make Grid
91%
Zoom
Edit
Transform
Rotate
Flatten
Union
Subtract
Intersect
Difference
Mask
Scale
Union
Subtract
Intersect
Difference
PAGES
Brownbag
chippencharts2
chart-column_1
chart-column_2
chart-column_3
chart-column_4
chart-column_5
chart-column_6
chart-column_7
chart-column_8
chart-column_9
chart-column_10
chart-column_11
chart-column_12
chart-column_13
chart-column_14
chart-column_15
chart-column_16
chart-column_17
chart-column_18
chart-column_19
chart-column_20
chart-column_21
chart-column_22
chart-column_23
chart-column_24
chart-column_25
chart-column_26
Filter
chippencharts2
2017
2019
2017
2019
2017
2018
2019
Create your random bar chart with 106 selected layers
This is for a bar chart where random values are applied to the layers of your selection.
Define extrema of bars
20
138 (max)
Specify the desired trend
Random
Trend going up ↑ (linear)
Trend going up ↑ (natural)
Trend going down ↓ (linear)
Trend going down ↓ (natural)
Vertical or horizontal?
Automatic (vertical detected)
Force horizontal
Please make sure proportional scaling is disabled
Cancel
Run

2019-05-21_brownbag — Edited

3 Notifications

Insert Data Forward Backward Create Symbol Group Ungroup Make Grid 91% Zoom Edit Transform Rotate Flatten Union Subtract Intersect Difference Mask Scale Union Subtract Intersect Difference

2019-05-21_brownbag

PAGES

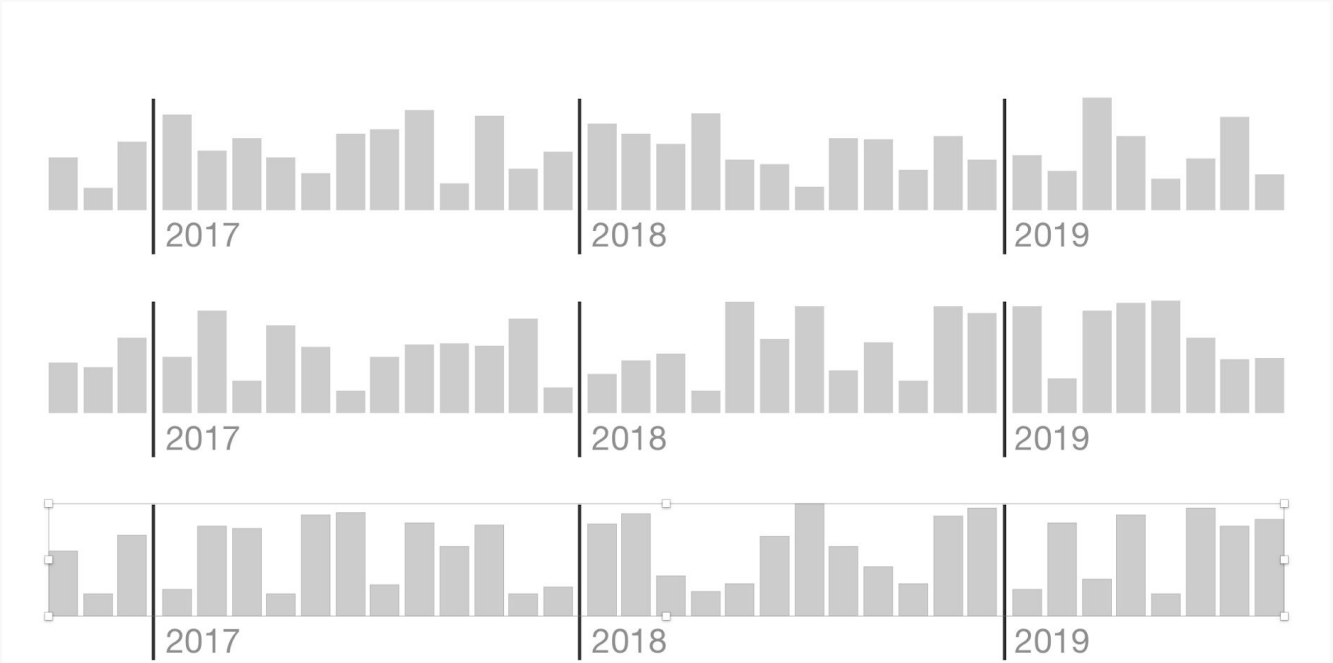
Brownbag

chippencharts2

- chart-column_1
- chart-column_2
- chart-column_3
- chart-column_4
- chart-column_5
- chart-column_6
- chart-column_7
- chart-column_8
- chart-column_9
- chart-column_10
- chart-column_11
- chart-column_12
- chart-column_13
- chart-column_14
- chart-column_15
- chart-column_16
- chart-column_17
- chart-column_18
- chart-column_19
- chart-column_20
- chart-column_21
- chart-column_22
- chart-column_23
- chart-column_24
- chart-column_25
- chart-column_26

Filter

chippencharts2



35 vertical bars with random data (20px–100px)

2019-05-21_brownbag — Edited

3 Notifications

Insert Data Forward Backward Create Symbol Group Ungroup Make Grid 91% Zoom Edit Transform Rotate Flatten Union Subtract Intersect Difference Mask Scale Union Subtract Intersect Difference

2019-05-21_brownbag

PAGES

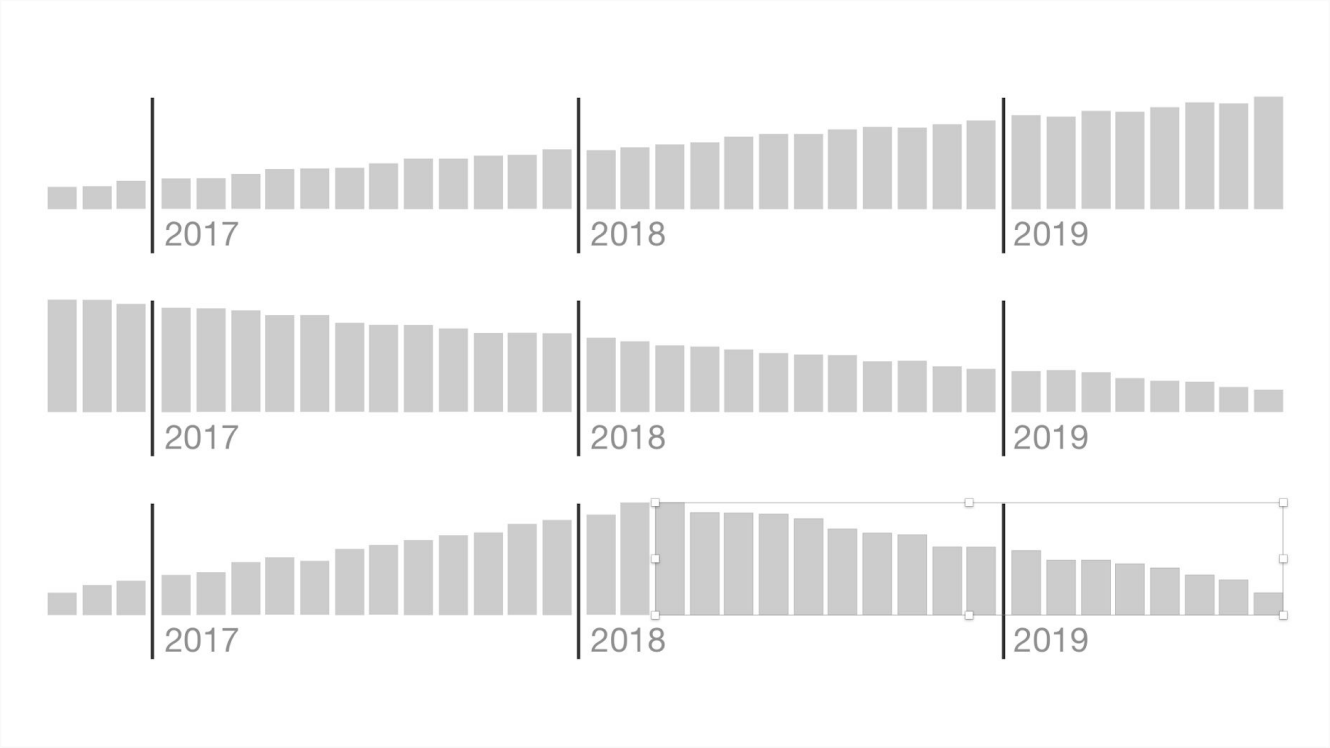
Brownbag

chippencharts2

- chart-column_1 {:20:}
- chart-column_2 {:31.4:}
- chart-column_3 {:35.8:}
- chart-column_4 {:42.1:}
- chart-column_5 {:45.7:}
- chart-column_6 {:49.1:}
- chart-column_7 {:49:}
- chart-column_8 {:57.5:}
- chart-column_9 {:60.6:}
- chart-column_10 {:60.7:}
- chart-column_11 {:71.4:}
- chart-column_12 {:73:}
- chart-column_13 {:76.6:}
- chart-column_14 {:85.8:}
- chart-column_15 {:89.8:}
- chart-column_16 {:90.8:}
- chart-column_17 {:91.2:}
- chart-column_18 {:100:}
- chart-column_19 {:100:}
- chart-column_20 {:89.3:}
- chart-column_21 {:84.5:}
- chart-column_22 {:81.1:}
- chart-column_23 {:73.5:}
- chart-column_24 {:70.9:}
- chart-column_25 {:66.7:}
- chart-column_26 {:62.4:}

Filter

chippencharts2

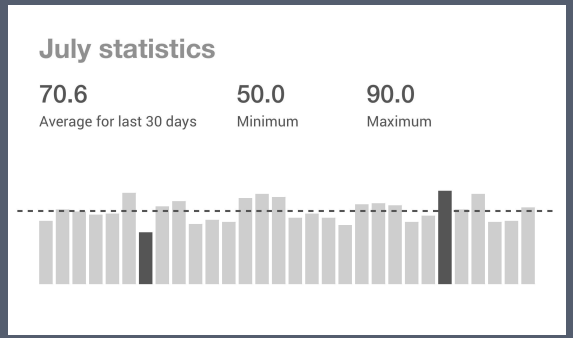


18 vertical bars with trend going down ↓ (natural) (20px–100px)

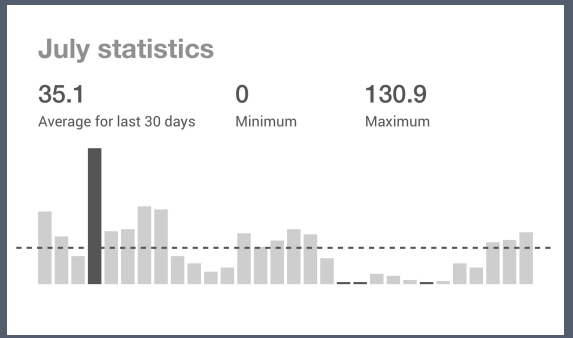
Strategies for datavis wireframes

Placeholder data

Meaningful but random data



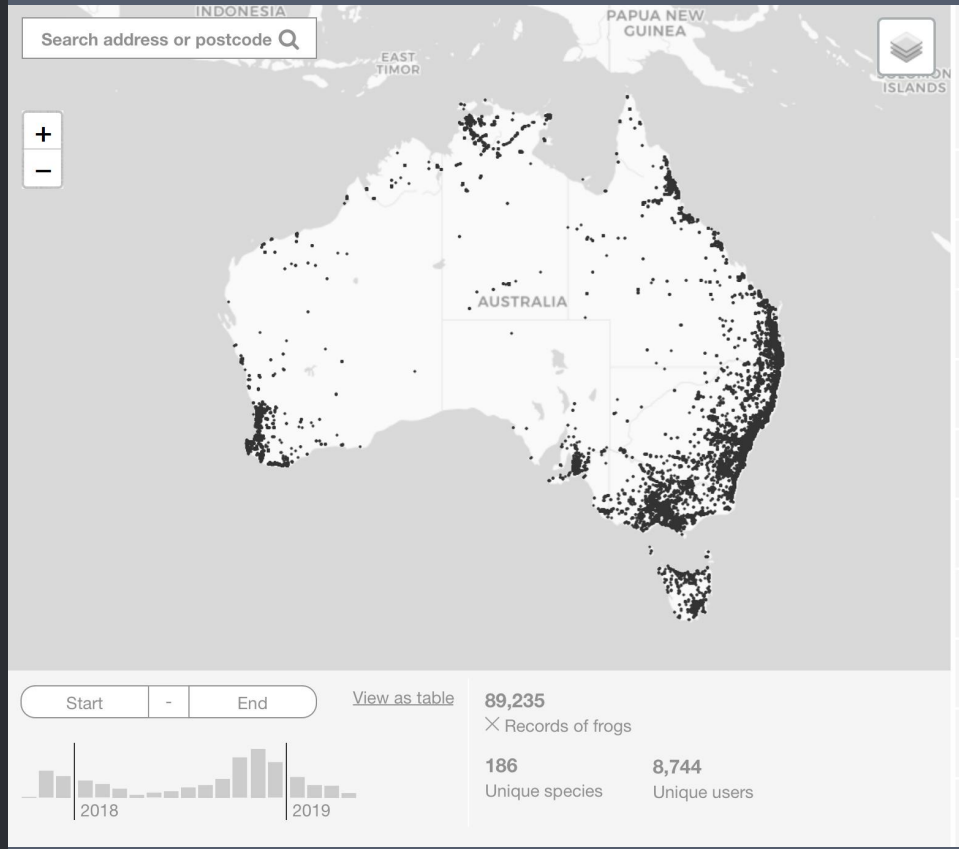
Real data



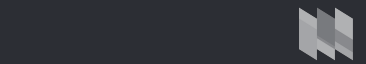
Example of using real data

Real data in datavis wireframes is great for:

- Testing the design
- Spot challenges very early and communicate with team
- Having educated convos with clients



Using real data in wireframes is fun
and the clients love it.



Thanks.

Martin von Lupin
@martinvonlupin

Let’s have a chat!

Martin von Lupin
@martinvonlupin