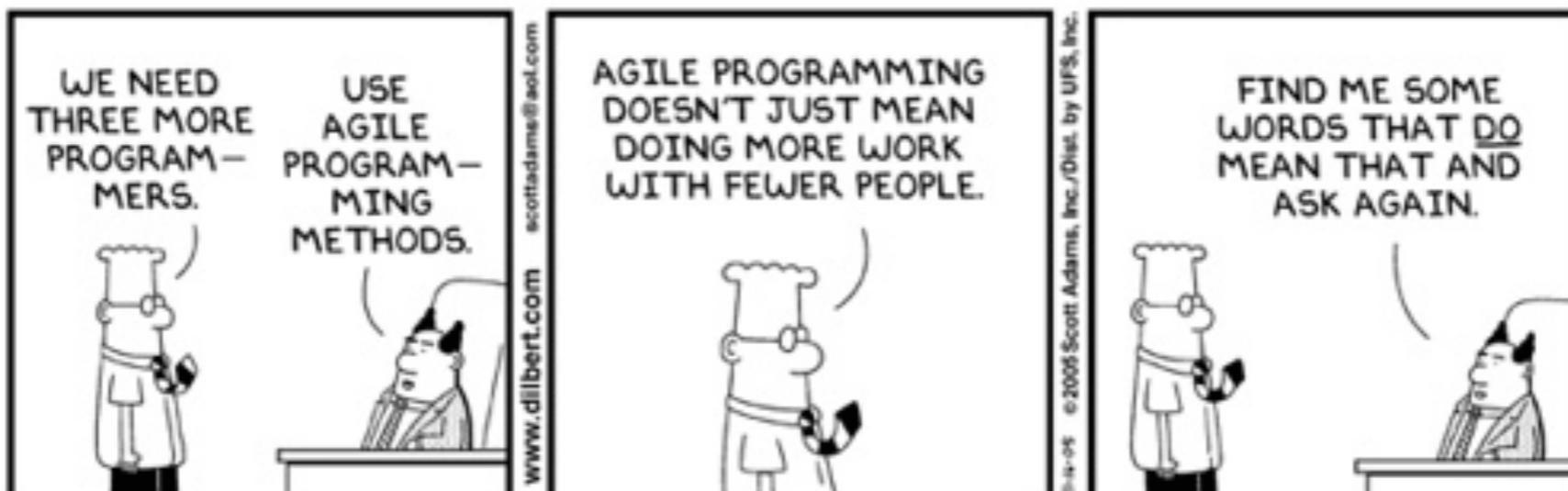


# CS 171



# Project Planning

Hanspeter Pfister



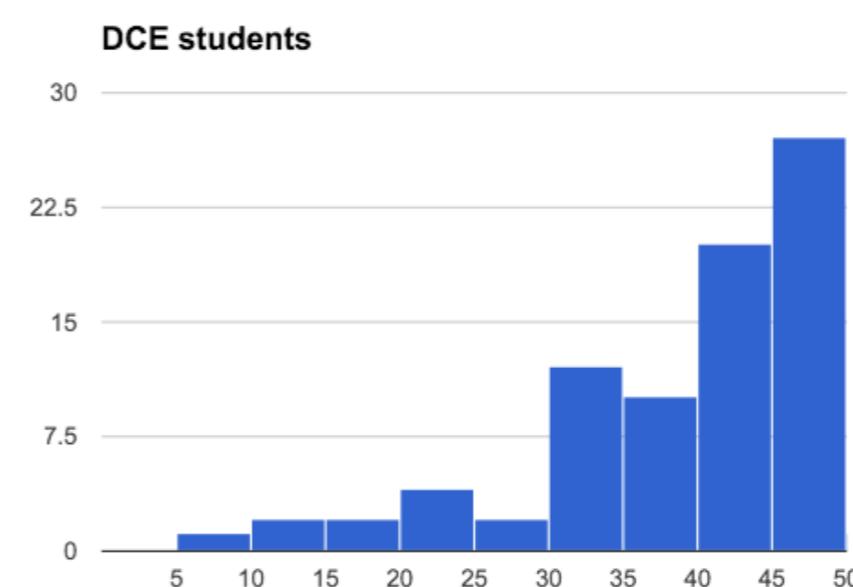
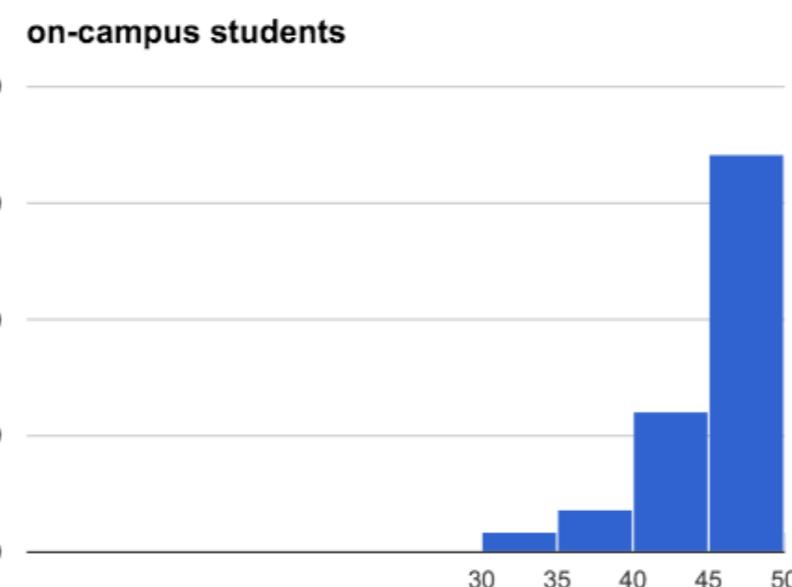
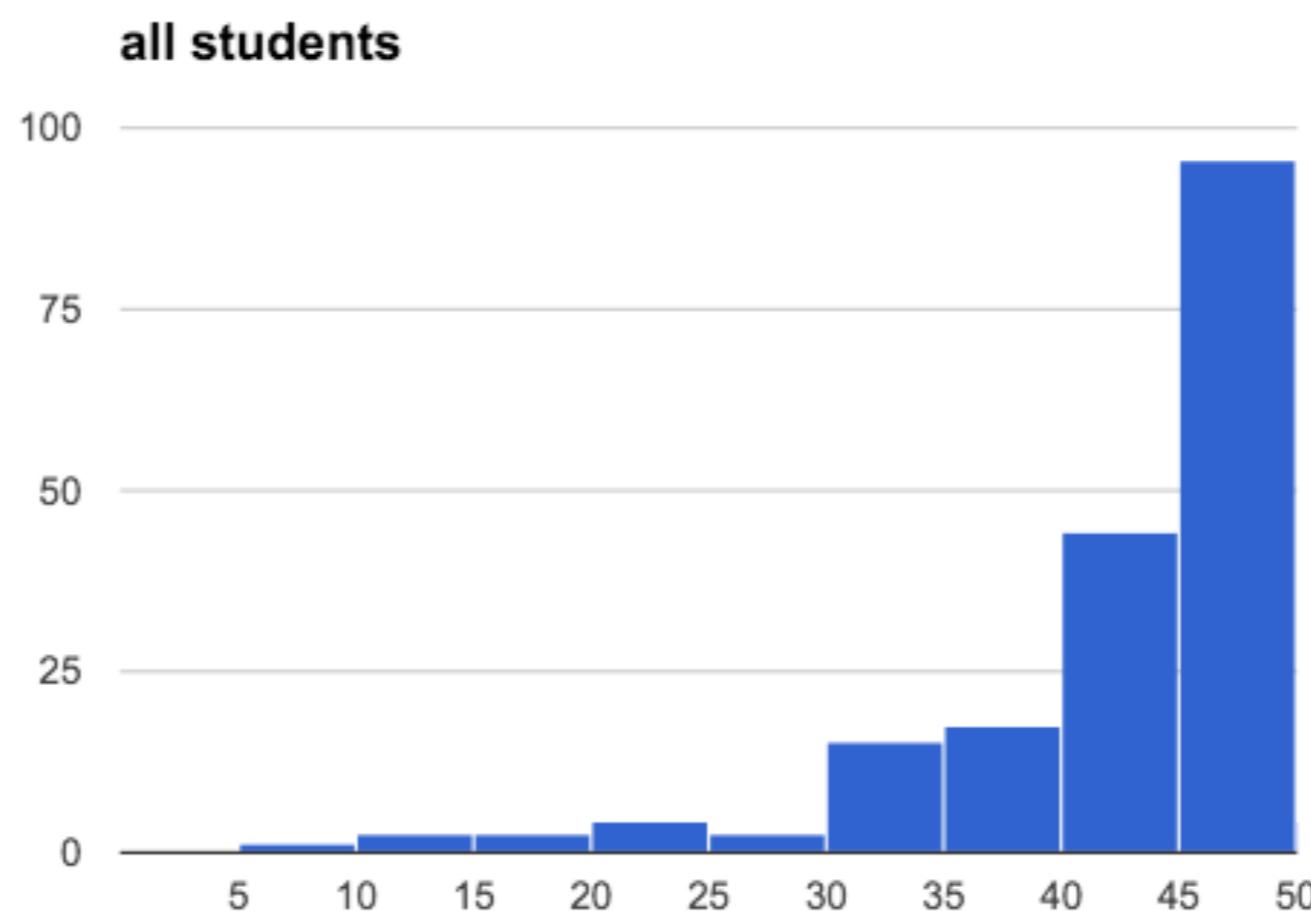
# Midterm Feedback



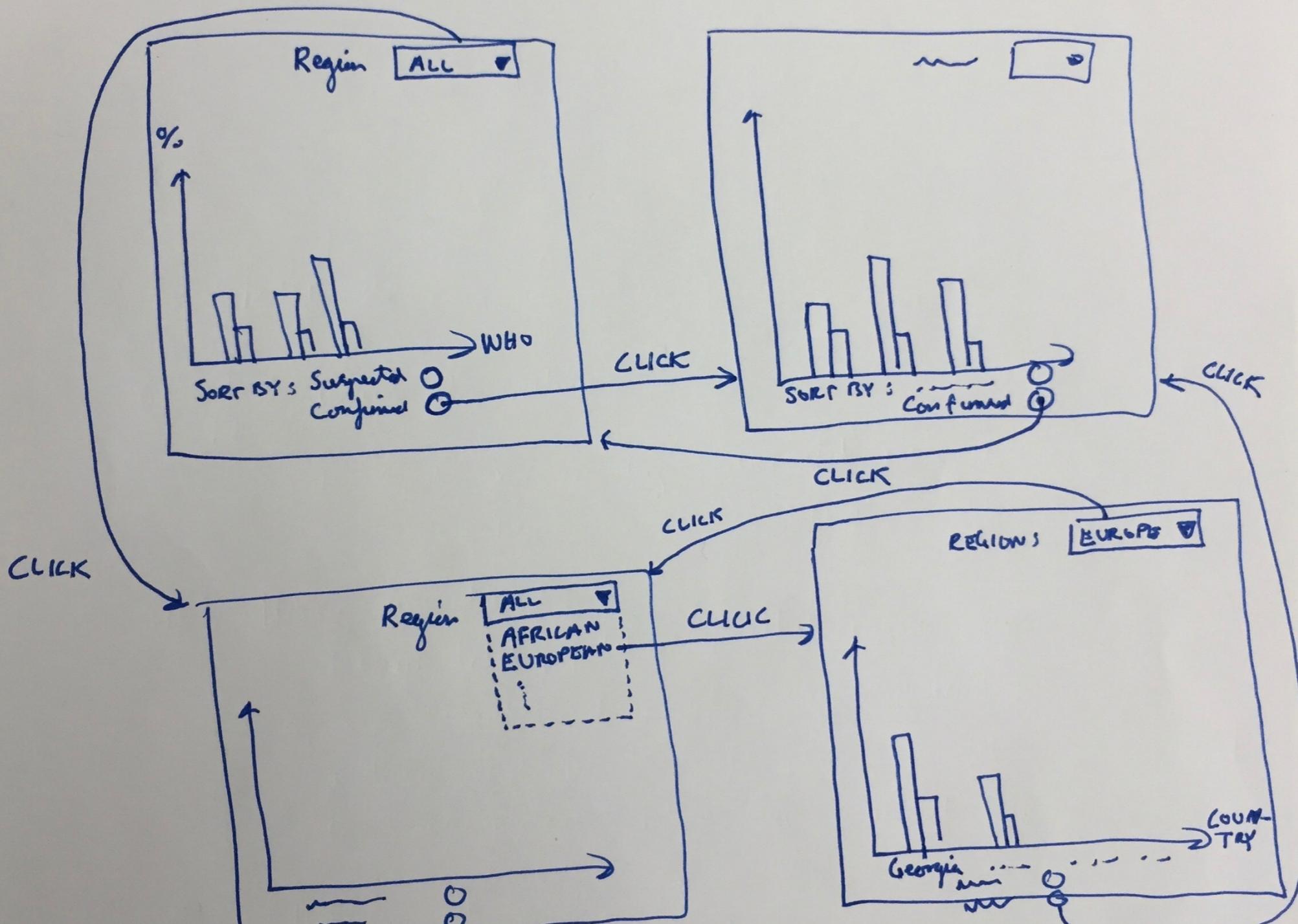
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# Midterm Exam Feedback



7.2) Storyboard:



sad kid :)

Storyboard

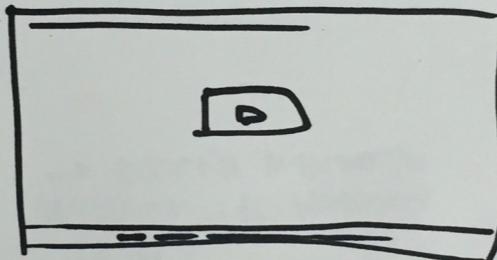
THE GOTHAM TI...

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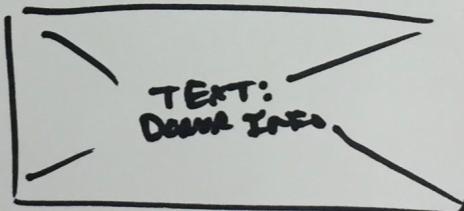
# THE GOTHAM TIMES

NEWS SPORTS ARTS DATA VIZ.

WHO'S FIGHTING IT?



(VIDEO FROM  
A FOUNDATION)



UNFOLD  
TO SCROLL

UNFOLD  
TO SCROLL

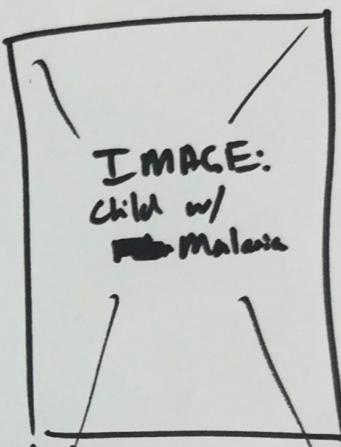
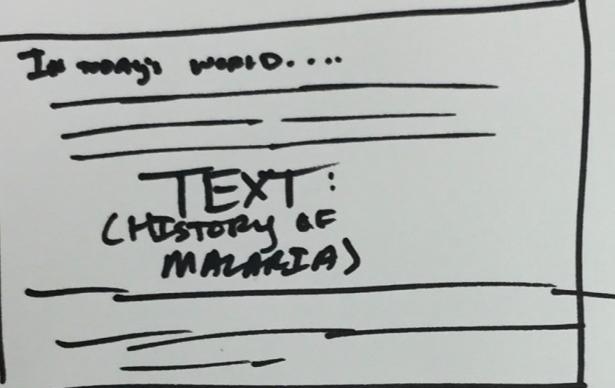
The mother of all paper webpages.

THE GOTHAM T...  
+ -

# THE GOTHAM TIMES

NEWS SPORTS ARTS DATA VIZ.

## MALARIA IN THE 21ST CENTURY



See which countries are most affected.



fold to  
scroll  
— — —  
fold to  
scroll

fold to  
scroll  
— — —  
fold to  
scroll

TEXT:  
MALARIA TECHNIQUE



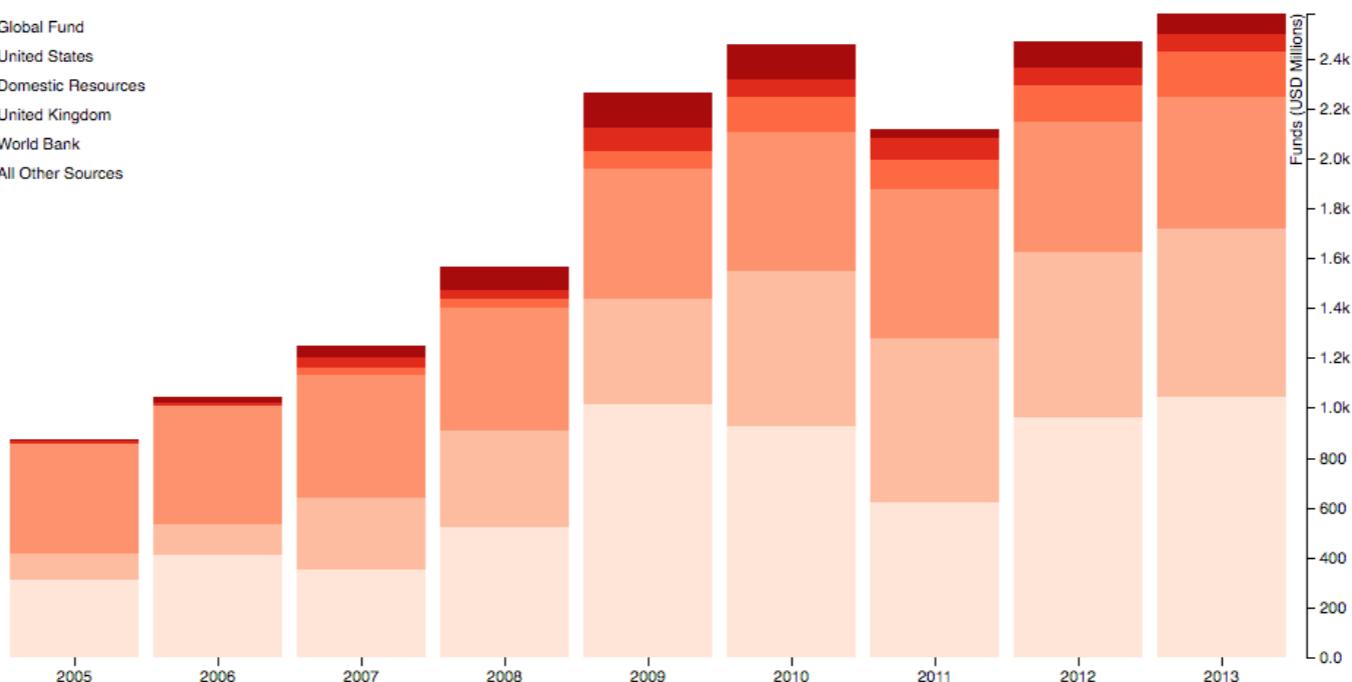
## GOVERNMENT FUNDING

Foreign aid represents less than 1% of the U.S. federal budget, but it makes a huge difference. By bridging the current funding gap and helping countries deliver life-saving tools, we can keep the drive toward zero malaria deaths going.

## Gov. Funding Trend

Stacked  Grouped

- Global Fund
- United States
- Domestic Resources
- United Kingdom
- World Bank
- All Other Sources





There are 7.125 billion people in the world...

## What is Malaria?

Malaria is a life-threatening disease caused by parasites transmitted to people through the bites of infected female mosquitoes.

People infected with malaria often experience fever, chills and flu-like illness at first.

Young children, pregnant women and non-immune travellers from malaria-free areas are particularly vulnerable to the disease when they become infected.

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Left untreated, the disease can lead to severe complications and, in some cases, death.

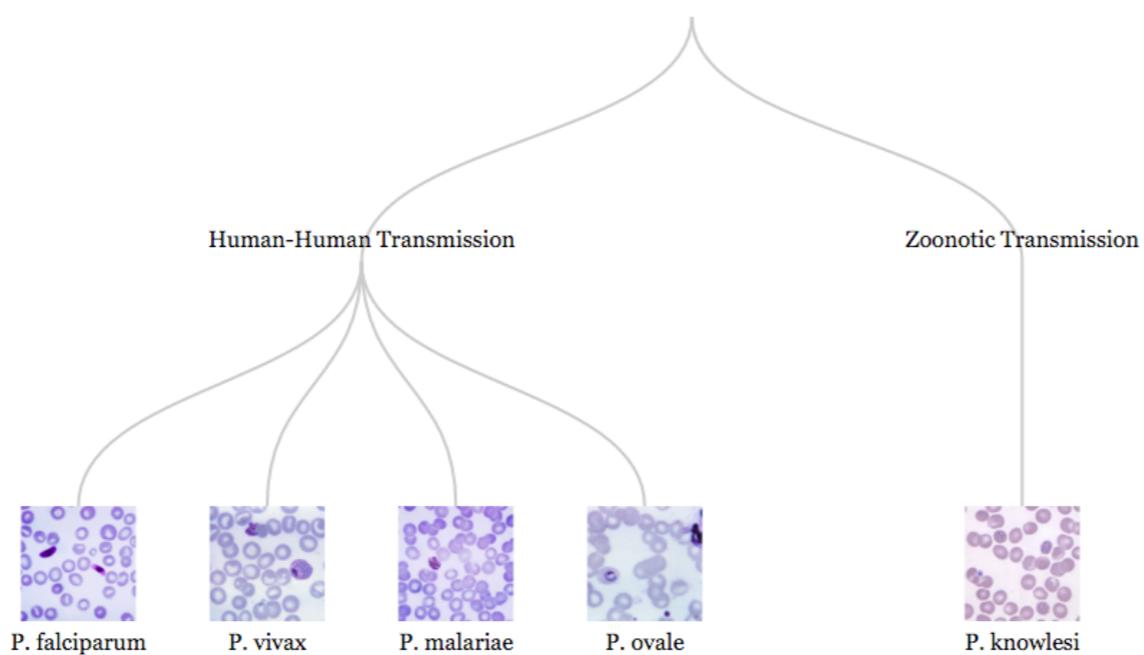
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## Transmission

The disease is caused by five species of parasites belonging to the genus *Plasmodium*, transmitted via the bite of female mosquitoes of the genus *Anopheles*.

There are two modalities by which they are spread:



We were very impressed.  
Visit the Vocarium gallery.





“Design and programming are **human** activities; forget that and all is lost.”

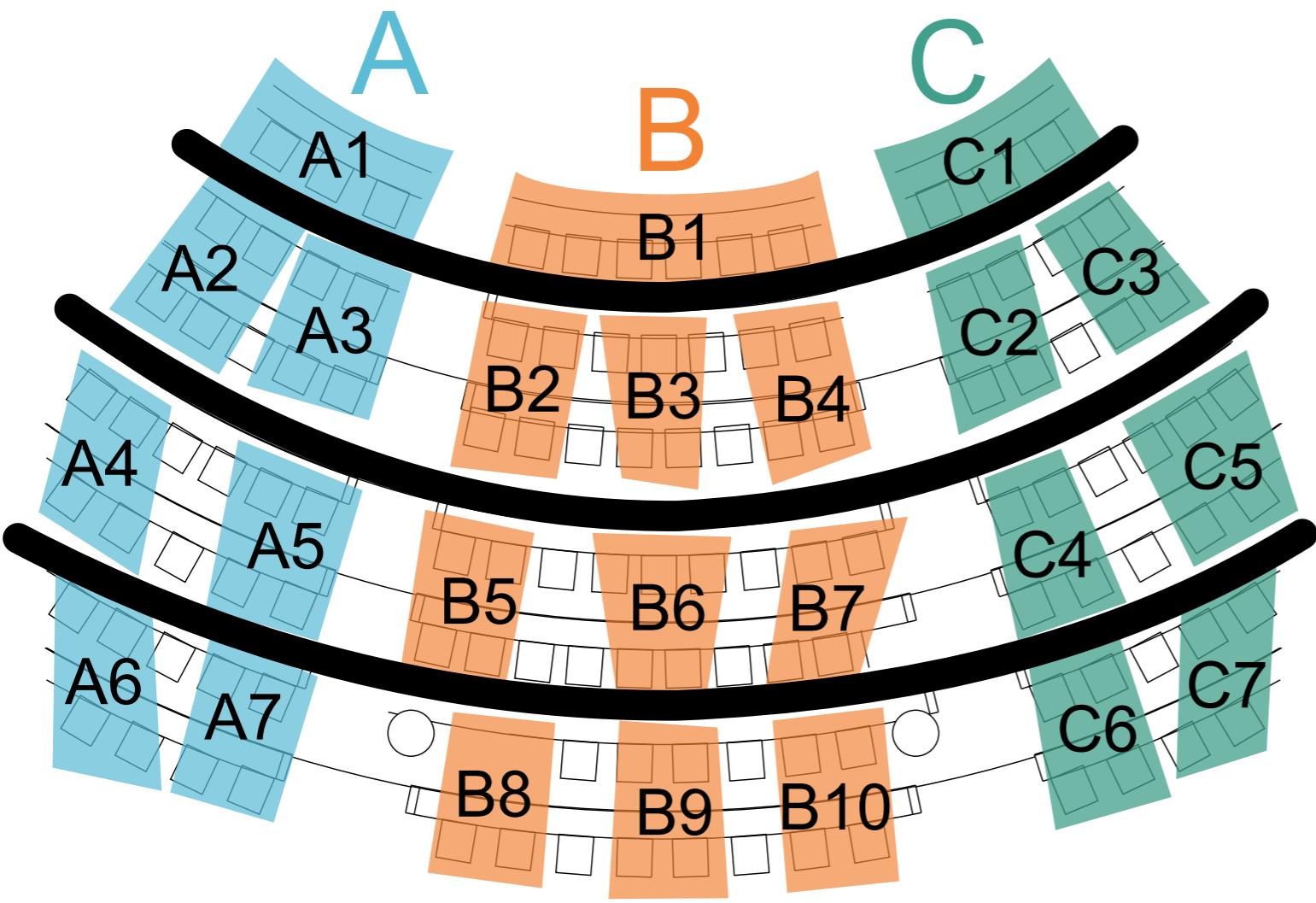
–Bjarne Stroustrup

# Activity

One member of each team should draw a number from the Easter Bunny.

Find the seat number on the projected seating chart and move there now.

This will be your assigned seating for the next few lectures.

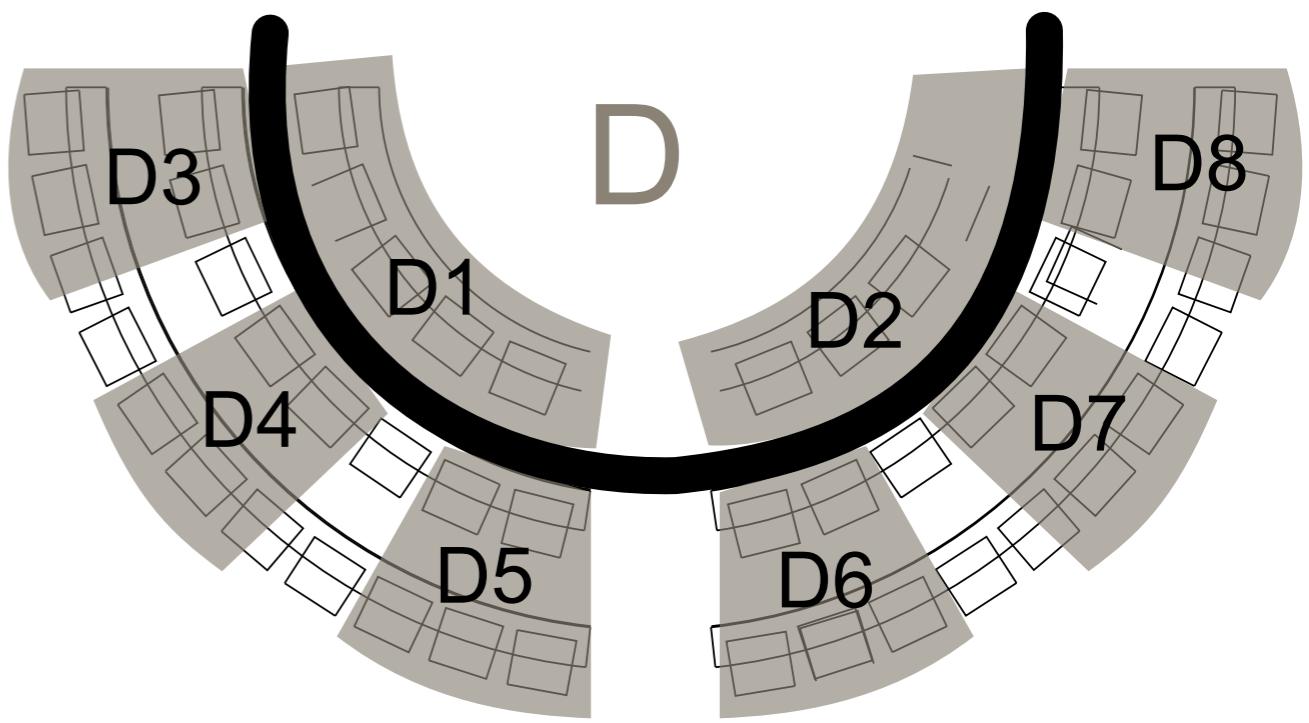


G115



= keep free

G125



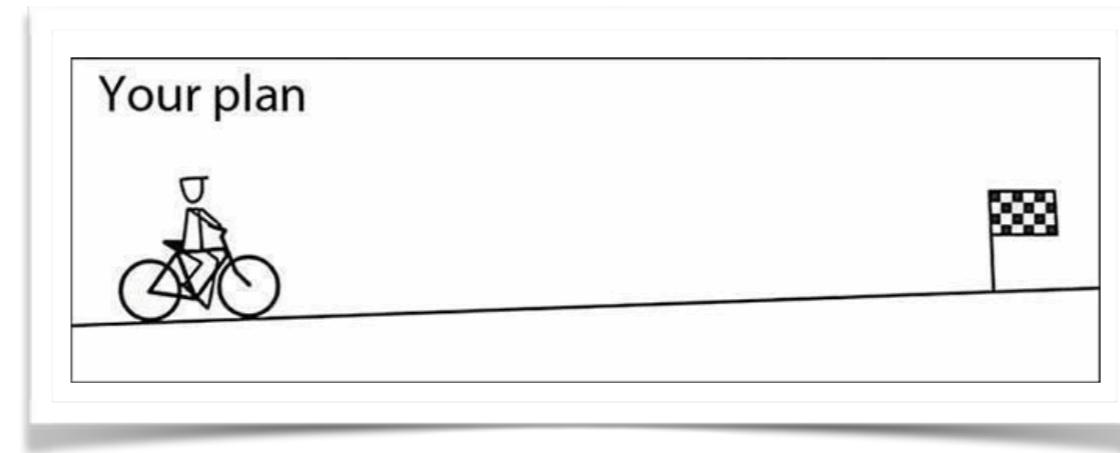
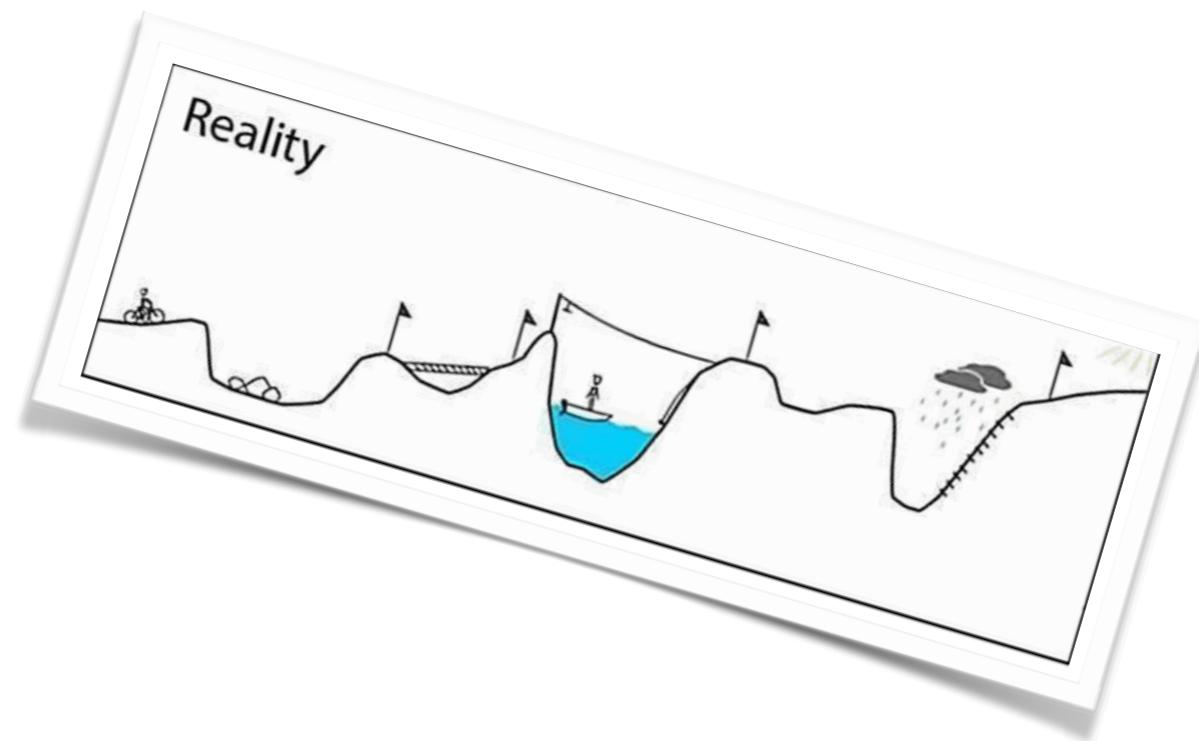
# Activity

Get to know each other and decide on a team name.

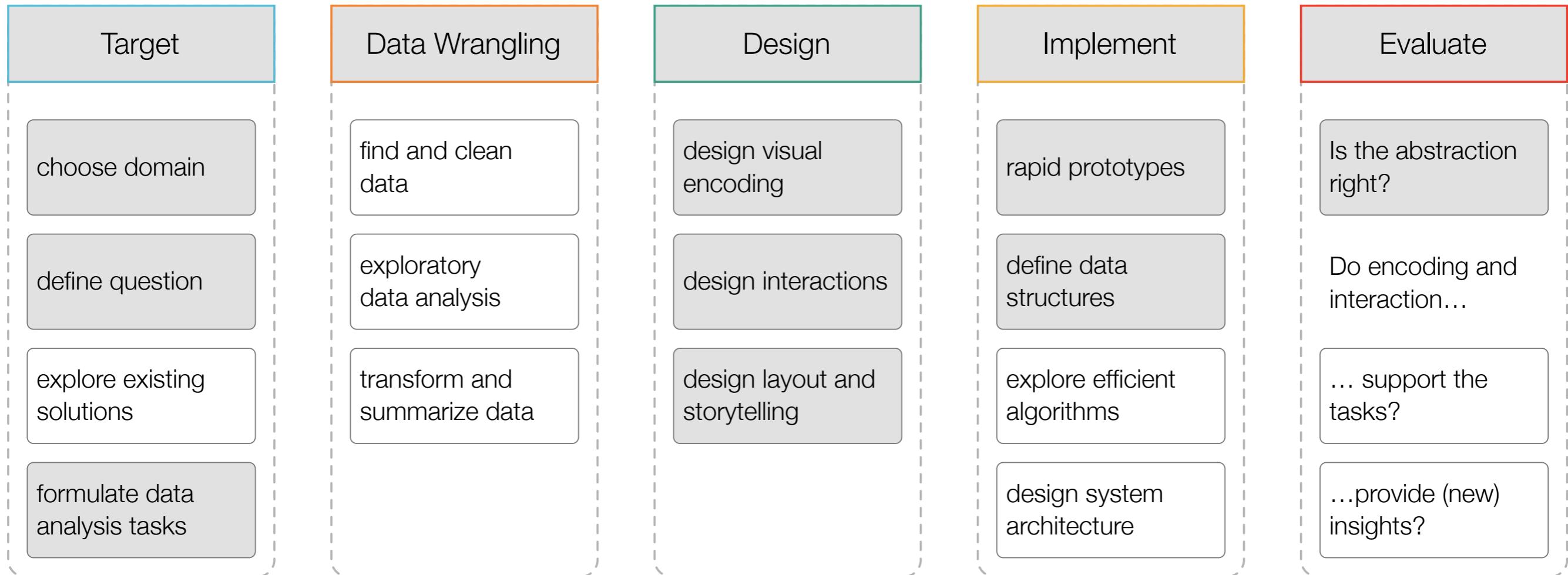
TFs will take photos of your team and your team name.

(5 min)

# Project Planning



# Process



# Project Schedule

Target	Week 9 (3/21-3/27)	Project proposal
Data Wrangling	Week 10 (3/27-4/3)	Project Plan (Goals and Tasks)
Design	Week 11 (4/4-4/10)	Complete Project Plan
Implement	Week 12 (4/11-4/17)	Project re-design
Evaluate	Week 13 (4/18-4/24)	Project prototype V1
	Week 14 (4/25-5/1)	Project prototype V2
	Week 15 (5/2-5/8)	Final project V2

# Activity

Get together with your group partners and create a list of skills that you will need to realize your project.

(5 min)



# Project Skills

- wrangle data
- create effective and innovative designs
- judge novelty of design
- decompose the design into implementable units
- implementation
- evaluation strategies
- team work skills

# Team Work



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IT Crowd

<https://www.youtube.com/watch?v=1nPVAh78n34>

# Activity

In your team - team - team - team - team... discuss the answers you gave to the pre-reading quiz.

(5 min)



# Group Peer Assessment

- Preparation – were they prepared during team meetings?
- Contribution – did they contribute productively to the team discussion and work?
- Respect for others' ideas – did they encourage others to contribute their ideas?
- Flexibility – were they flexible when disagreements occurred?

# Group Peer Assessment

	Member 1	Member 2	Member 3	<b>Multiplier</b>
Member 1	X	60	60	<b>120%</b>
Member 2	50	X	40	<b>90%</b>
Member 3	50	40	X	<b>90%</b>
	100	100	100	

# Activity

Write down your answers to the following questions. This will be your team expectation agreement.

Every team member needs to sign it.  
Submit the signed agreement with your homework.

(10 min)

# Team Culture

- assign **team roles**: coordinator, submitter, ...
- how you will **communicate**: rules, technology
- how and when you will **meet**: regular meeting time
- how you will **collaborate on implementation**: rules, technology
- how you will deal with **non-performing members**

# Elevator pitch



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# Goal

“The unique, concise, pithy, jargon-free, memorable, repeatable articulation of what you (or your group/company) offers.”

“Explain what you do in more detail, but without using terminology that will pigeon hole you before you get started.”

# Elevator Pitch

## Includes

- Problem / Solution (What?)
- Benefit (What for?)
- Personal motivation (Why are you motivated?)

## Excludes

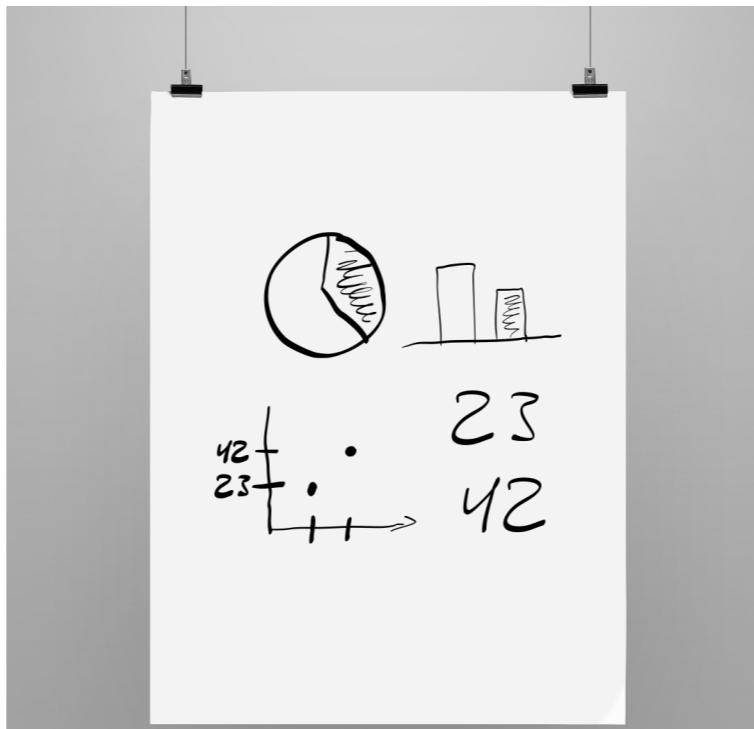
- Jargon
- Exceptions and caveats

# Activity

Come up with a 1 minute pitch that describes your project idea, have one person ready to present it. Find answers to the questions [6 min]:

- Problem / Solution (What?)
- Benefit (What for?)
- Personal motivation (Why are you motivated?)

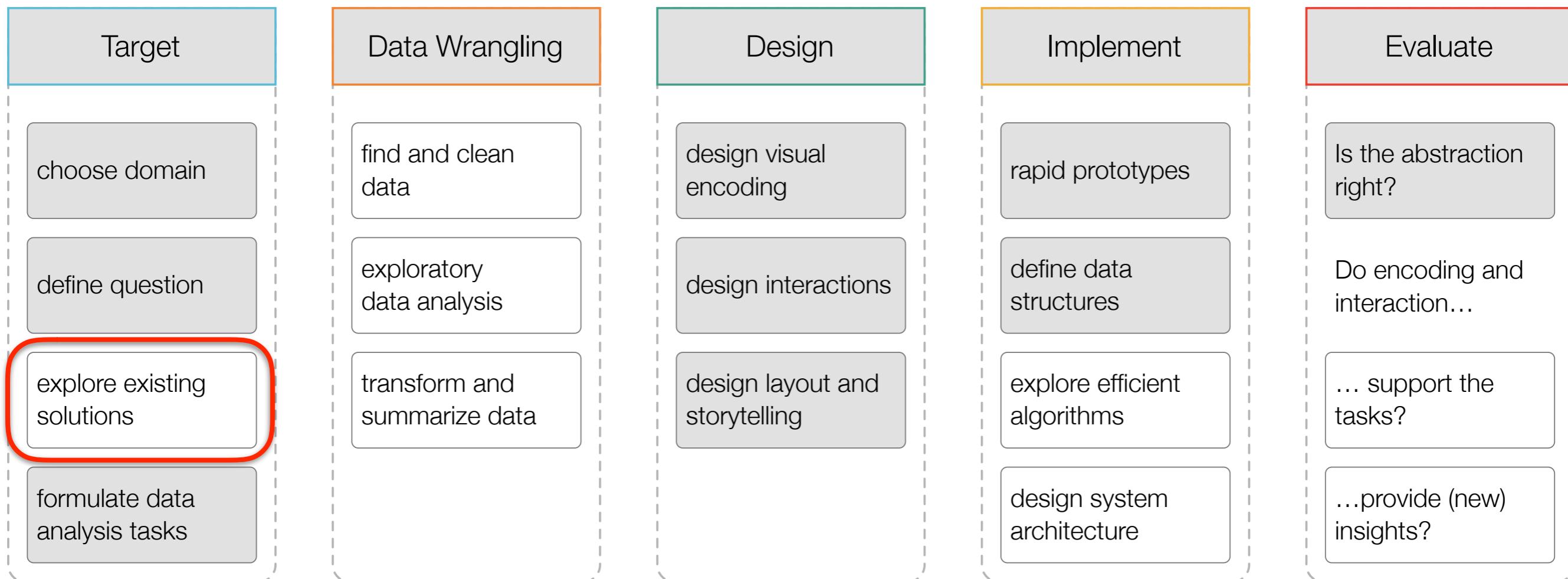
# Vis Explorations



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# Vis Explorations



# It is important to know about existing visualization methods

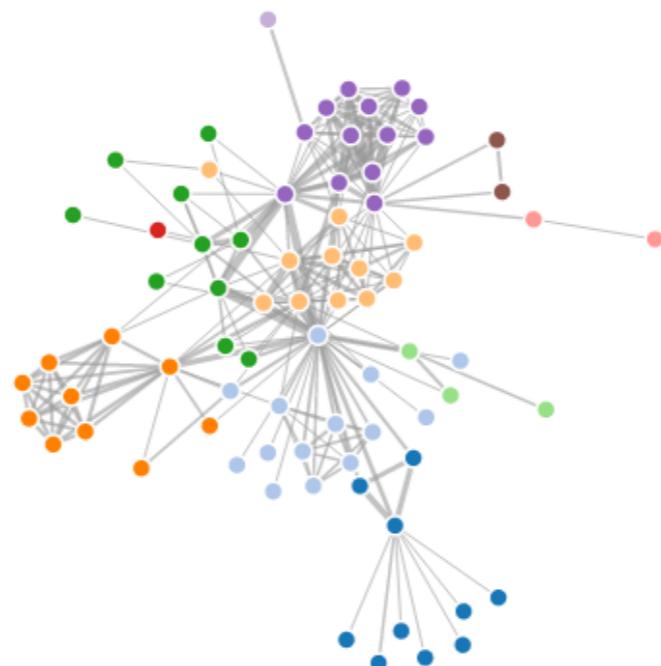
**Trees & Networks**

**Geografical Data / Maps**

**Visualization for Text**

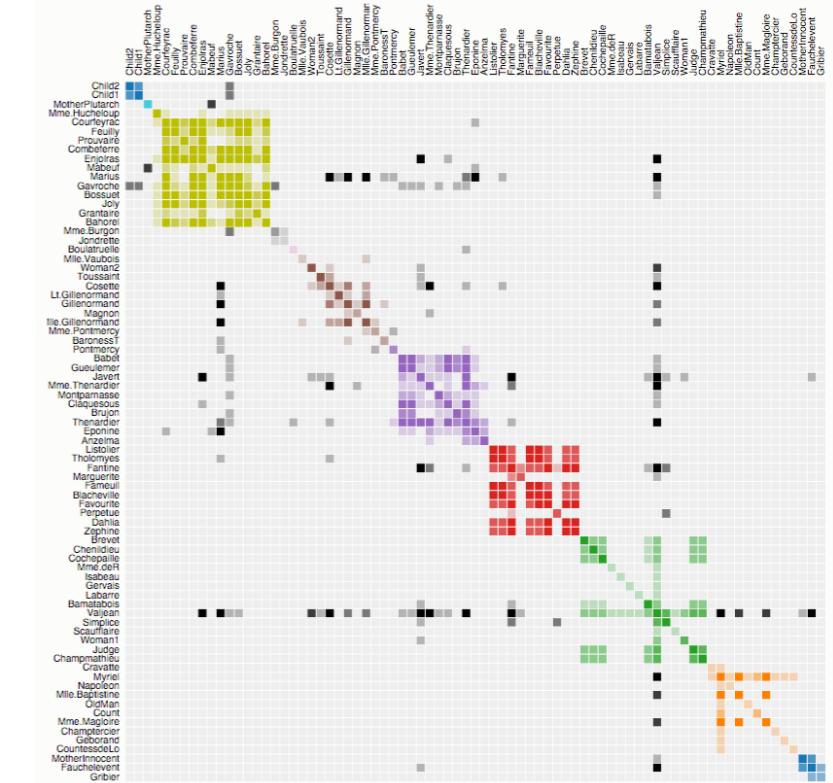
**Vis for High Dimensional Data**

# Trees & Networks



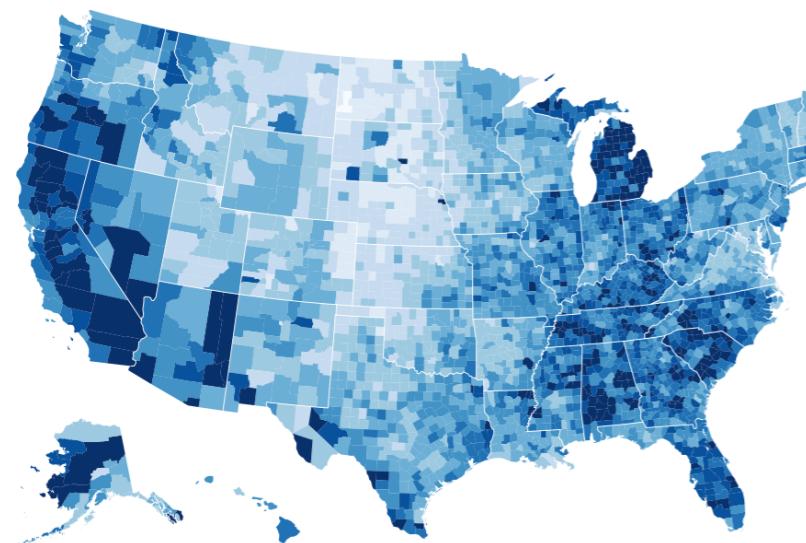
Treemaps

Node-Link  
Diagrams

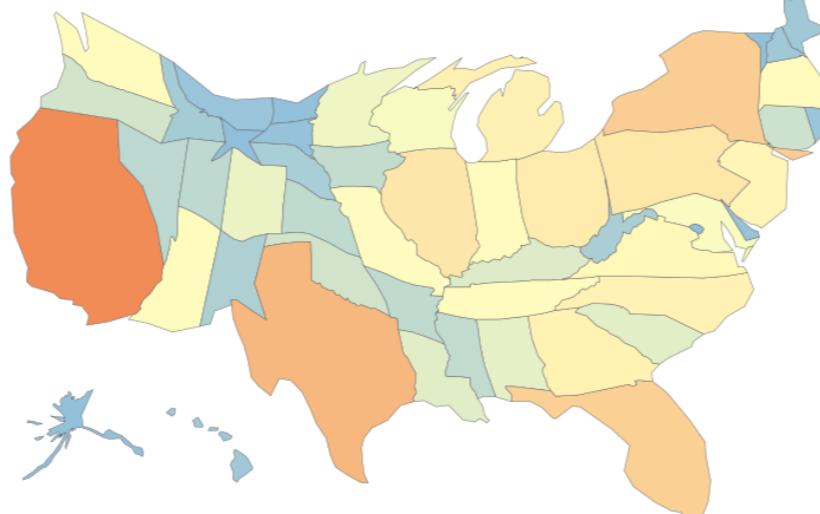


Adjacency  
Matrix

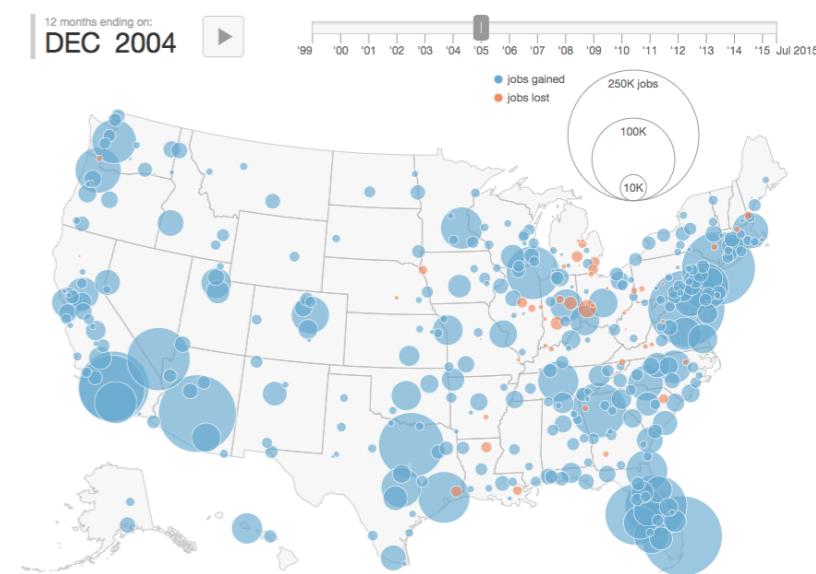
# Geographical Data / Maps



Choropleth

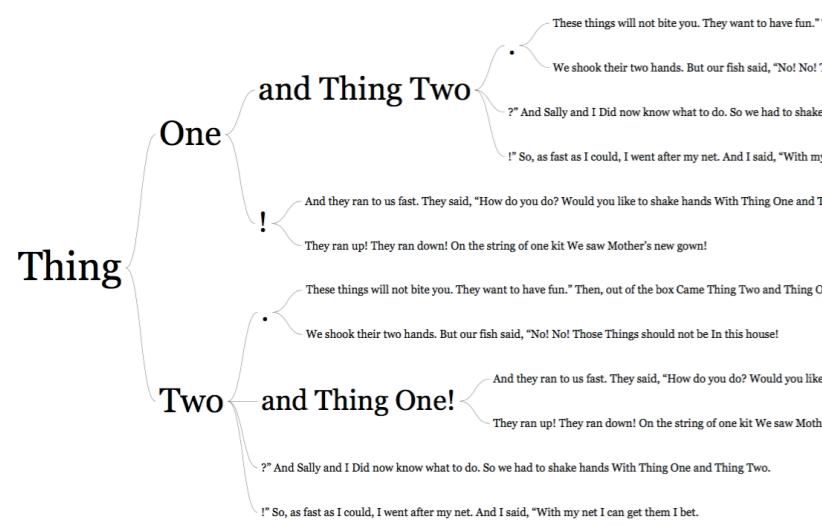


Cartograms

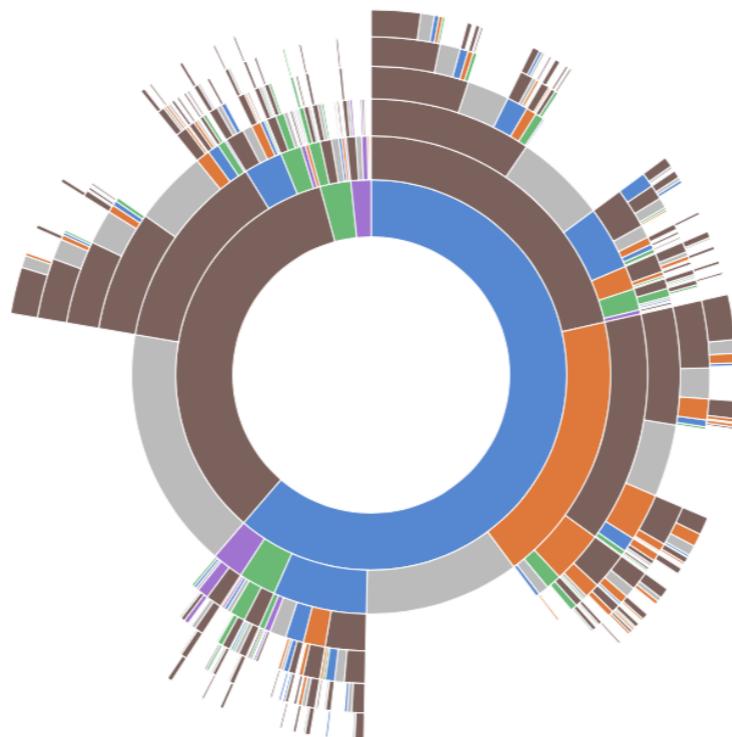


Symbol Maps

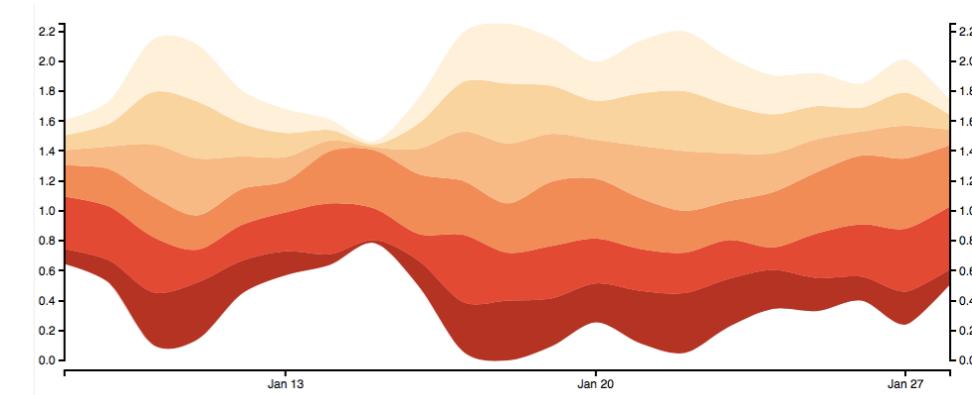
# Visualization of Text



Word Tree

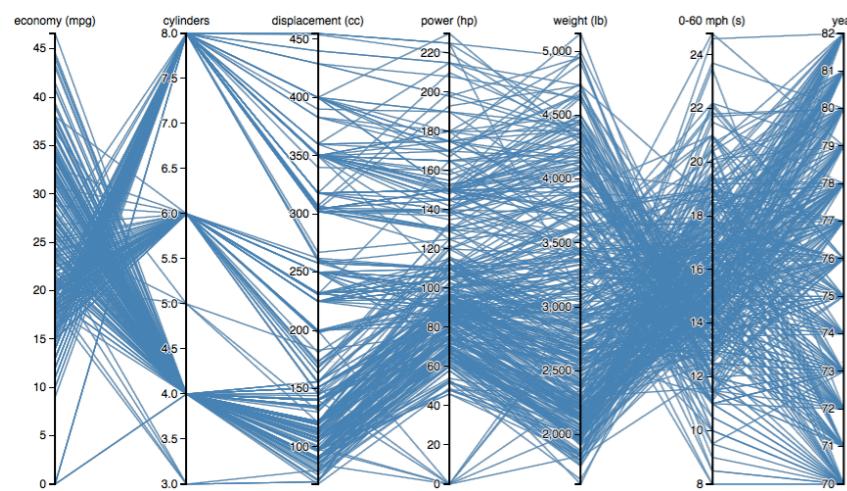


Document  
Burst

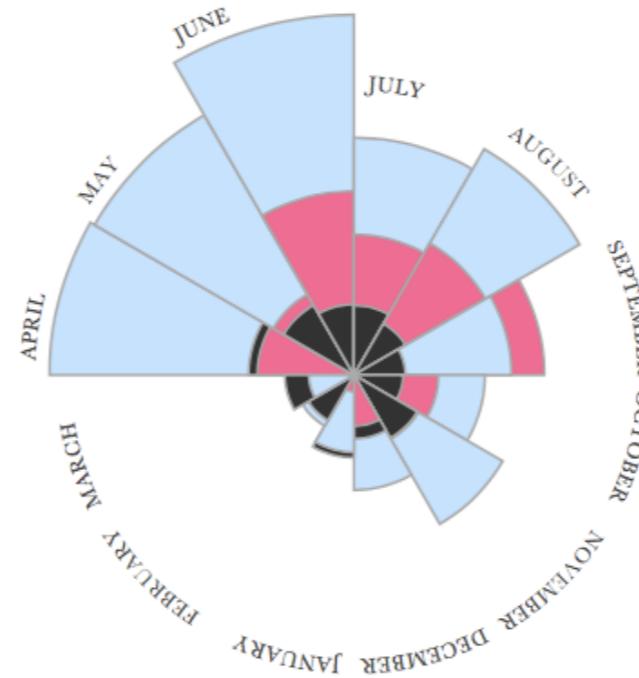


Streamgraph

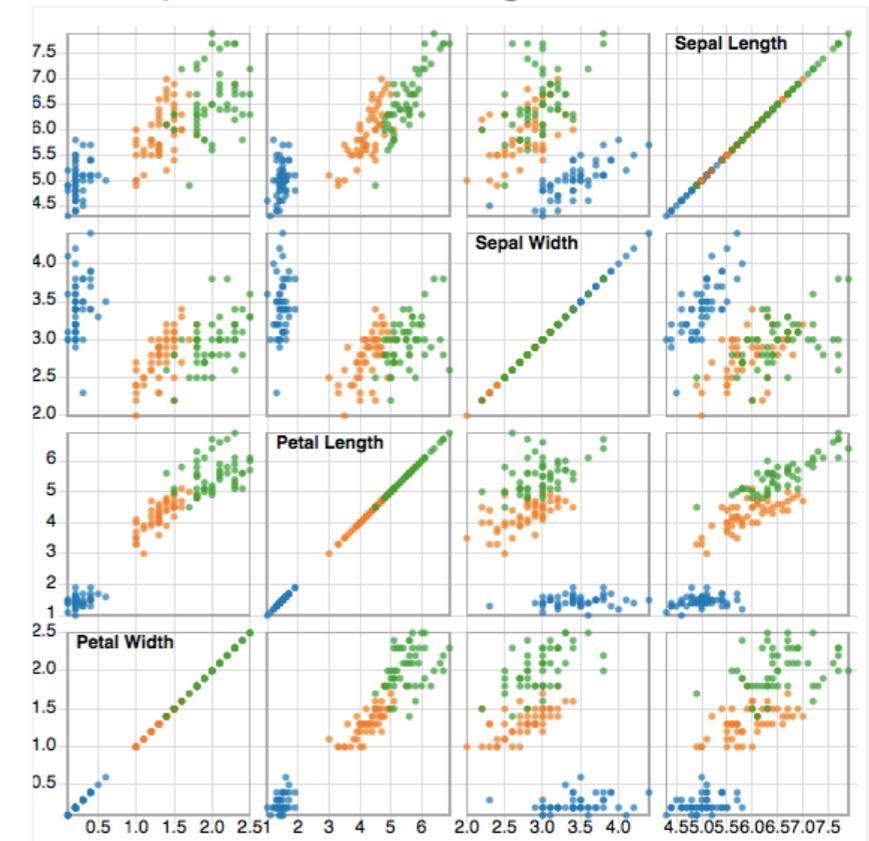
# High Dimensional Data



Parallel  
Coordinates



Polar Plots



SPLOM

# Vis Explorations

	on campus	DCE
Monday (03/28), 11:59pm - homework	Become experts in your assigned topic area & pick your favorite vis methods	
Tuesday	Create a poster	
	Expert group discussions	Piazza discussions
Thursday	poster session in front of MD G115	upload poster until 11:59pm
Monday (04/04), 11:59pm - homework	Pick methods for your projects (one per topic)	

one more thing

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171



# CS171 Awards



Best  
Poster



Student's Choice  
Project Award



Best Project  
Award

# Today

1 min paper !!!

- Project Planing
- Team Work
- Elevator Pitch
- Vis Exploration Sneak Preview

## This Thursday...

- Studio: Linked views. Interaction. Code structure, system design.
- Reading: In Canvas — CS171-lab7-reading.pdf + webpage

## Next Tuesday...

- Vis explorations discussions & poster creation
- Reading: A tour through the Visualization Zoo, Heer

## Homework (due Monday)...

- Vis Exploration Selections & Project Plan