

introduction to

DATA DATA DATA
VISUALISATION

Edith Maulandi

information & dataviz designer

data visualisation design | d3js



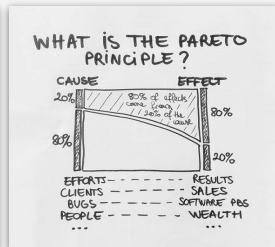
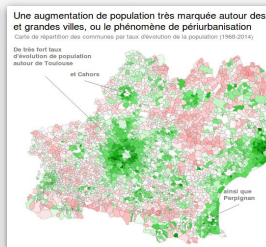
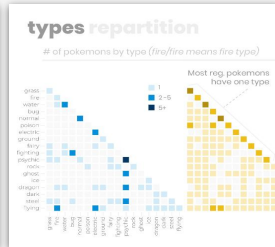
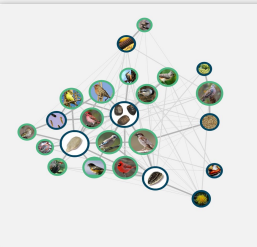
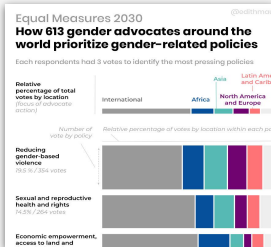
volunteer viz for social good



In the previous episodes :

INSA INSTITUT NATIONAL
DES SCIENCES
APPLIQUÉES
TOULOUSE

WAVESTONE



WHY

data
visualisation ?

impact

Huge potential as a cognitive help for humans in a present of complexities

broad

Its power can be harnessed for pretty every fields out there

progress

Relative low literacy among professionals and general public

fun

Exciting interdisciplinary field

WHY

i'm here ?

love + usefulness

I love this field. Why ? see the previous slide. I am convinced its a key transverse skill for you

share

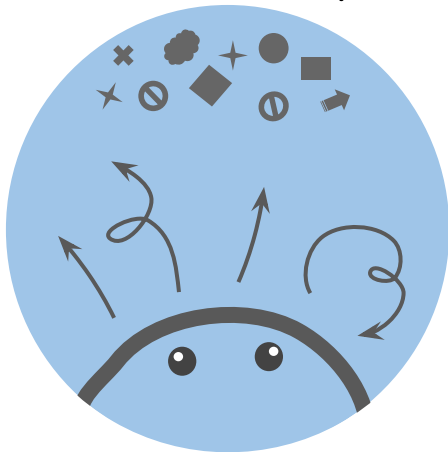
I mostly learned by myself. I am happy to share a condensed block with what was the most useful to me when I was learning

learn

You never stop learning. I'm sure teaching this class, talking with you will be a mutual learning experience

2 MAIN SETS OF SKILLS

Big picture &
Reflexivity



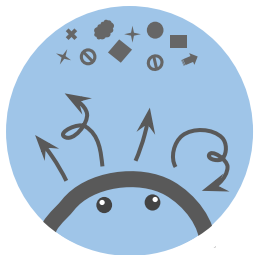
#theory #why #overview
#datavis culture
#design principles

Practical skills
& Focus



#tools #datavis
#implementation
#coding #practice

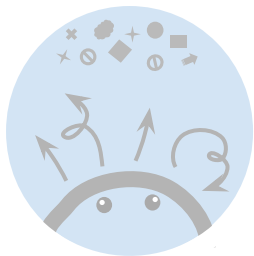
2 MAIN SETS OF SKILLS



Big picture &
Reflexivity

literacy	Acquire a broad exposition to different kind of data visualisation, ability to read and explain effortlessly a broad range of charts
critical overview	Ability to use critical thinking and context overview when building / assessing data visualisations, to detect flaws and provide constructive feedback
reflexivity and proactivity	Ability to self reflect on oneself work and to research, inform oneself

2 MAIN SETS OF SKILLS



Big picture &
Reflexivity



Practical skills
& Focus

literacy	Acquire a broad exposition to different kind of data visualisation, ability to read and explain effortlessly a broad range of charts
critical overview	Ability to use critical thinking and context overview when building / assessing data visualisations, to detect flaws and provide constructive feedback
reflexivity and proactivity	Ability to self reflect on oneself work and to research, inform oneself
design	Ability to design a specific data visualisation aligned with the data structure and the visualisation objectives
create	Ability to build data visualisation with different kind of tools (code, existing tools)
explain	Ability to add context and explanations within a visualisation to ease its consumption for presentation purpose



Big picture &
Reflexivity



Practical skills
& Focus

GOAL

you know enough to keep
growing and are able to apply
this and grow from here in any
projects in any field



Big picture &
Reflexivity

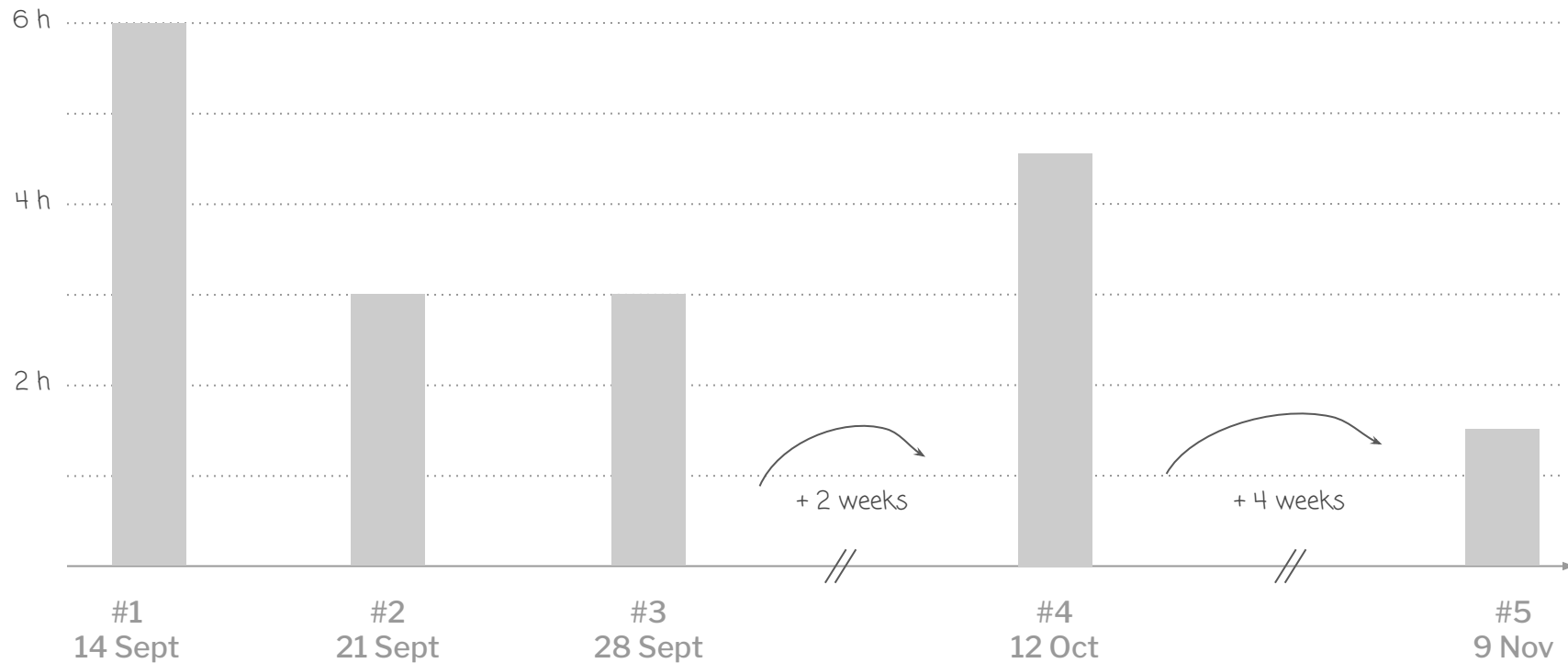


Practical skills
& Focus

GOAL

you know enough to keep
growing and are able to apply
this and grow from here in any
projects in any field

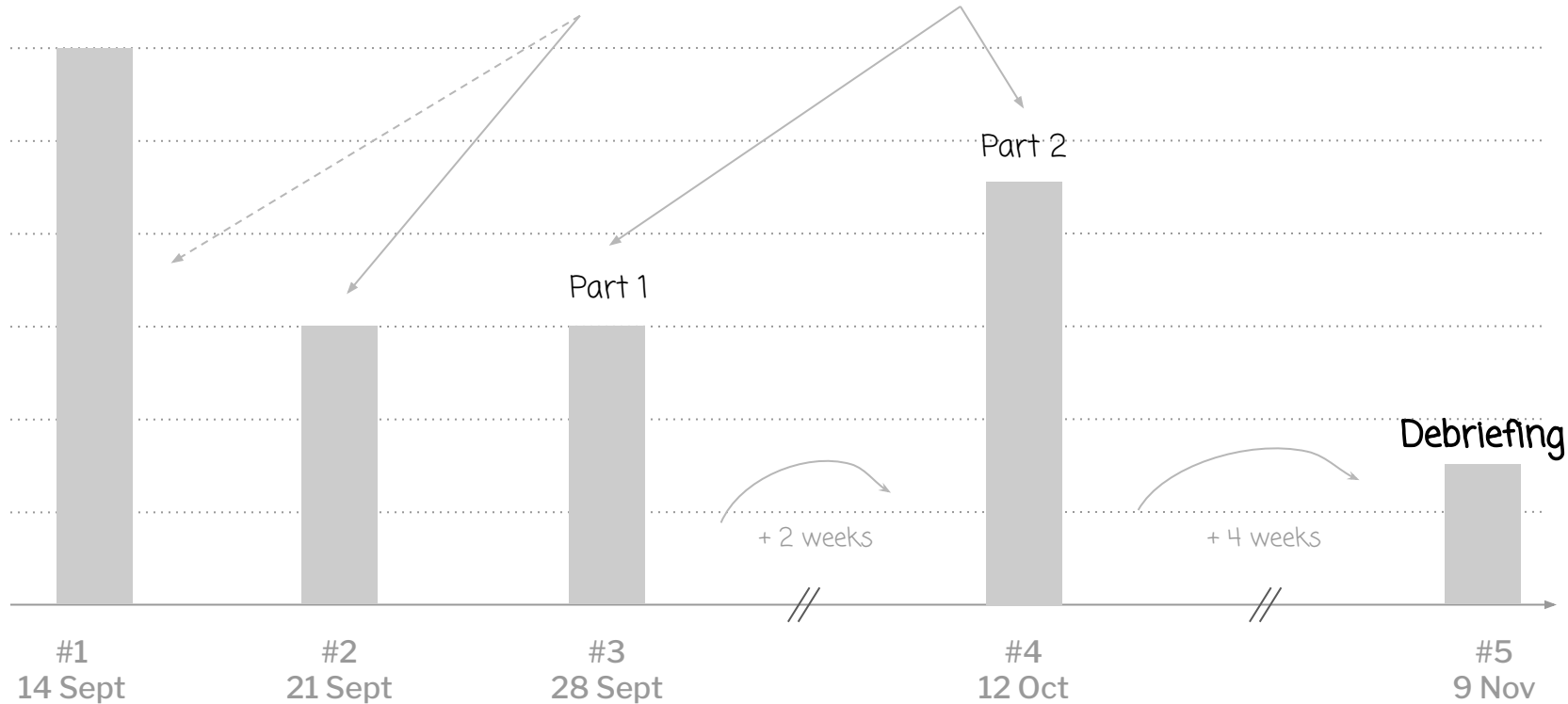
PLANING



Whats is it ?
Why do we visualize ?
Visual Functions

Search for
meaning using
visualisation

Show findings
using visualisation

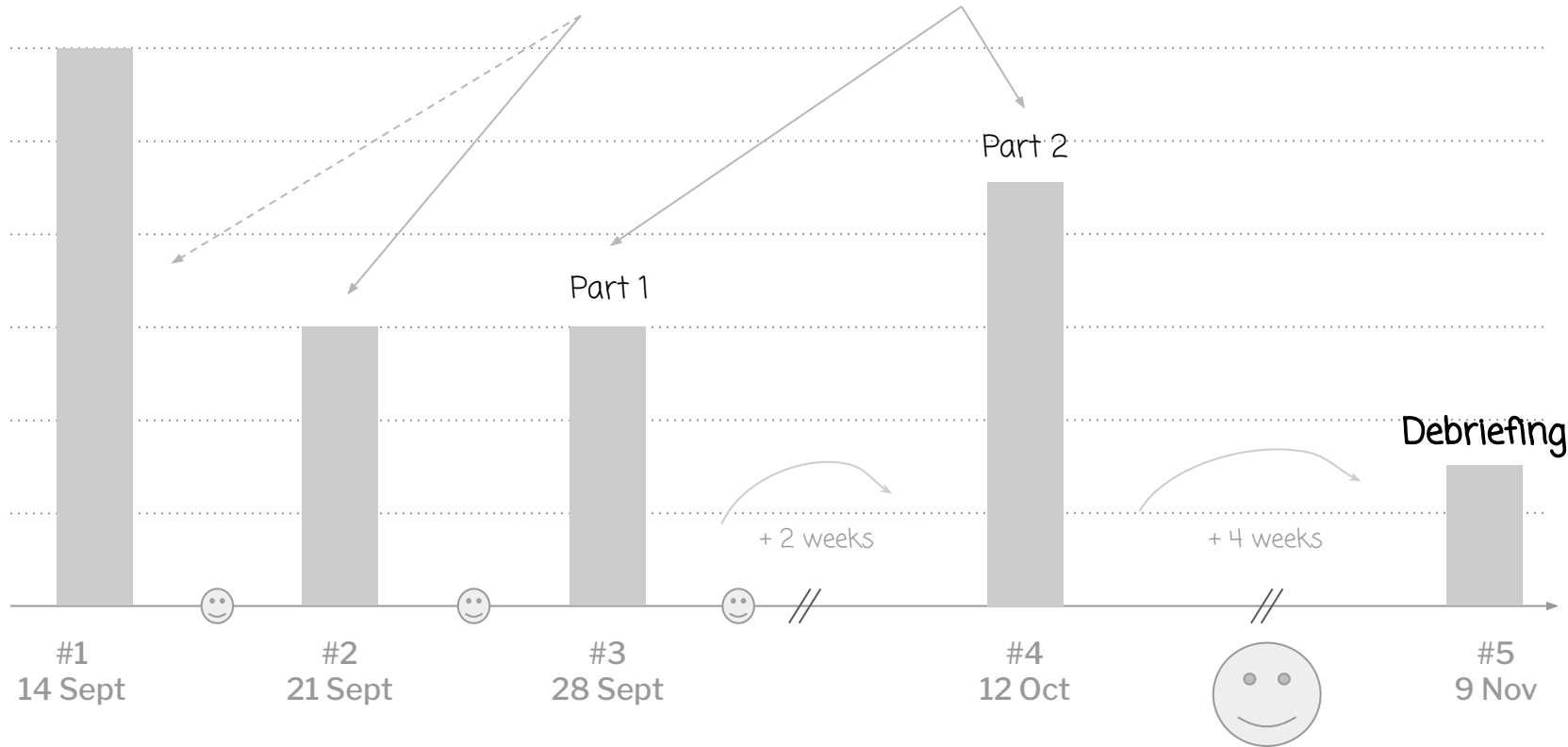


Whats is it ?
Why do we visualize ?
Visual Functions

Search for
meaning using
visualisation

Show findings
using visualisation

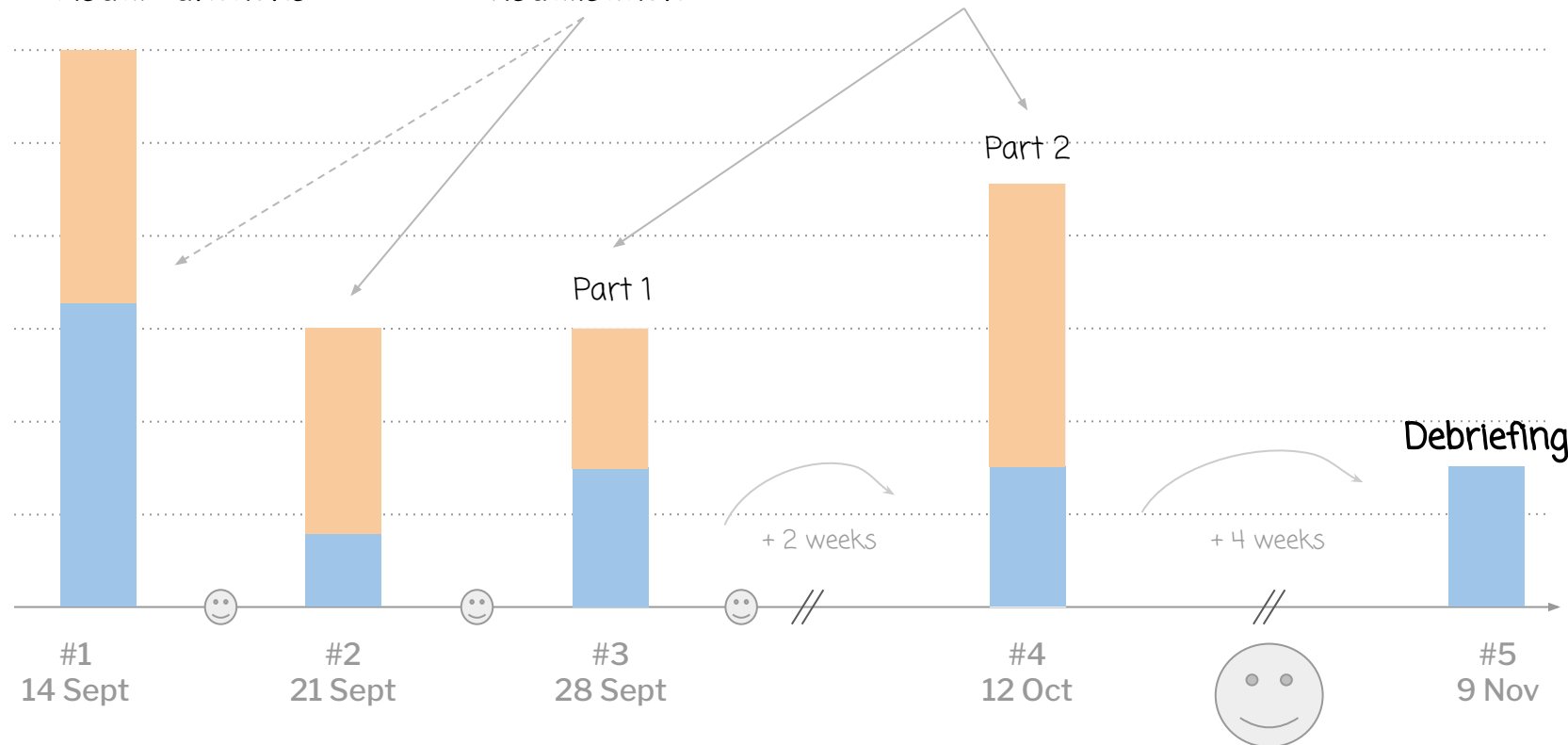
😊 Homework



Whats Is it ?
Why using visualisation ?
Visual Functions

Search for
meaning using
visualisation

Show findings
using visualisation



Whats Is it ?
Why do we visual
Visual Function

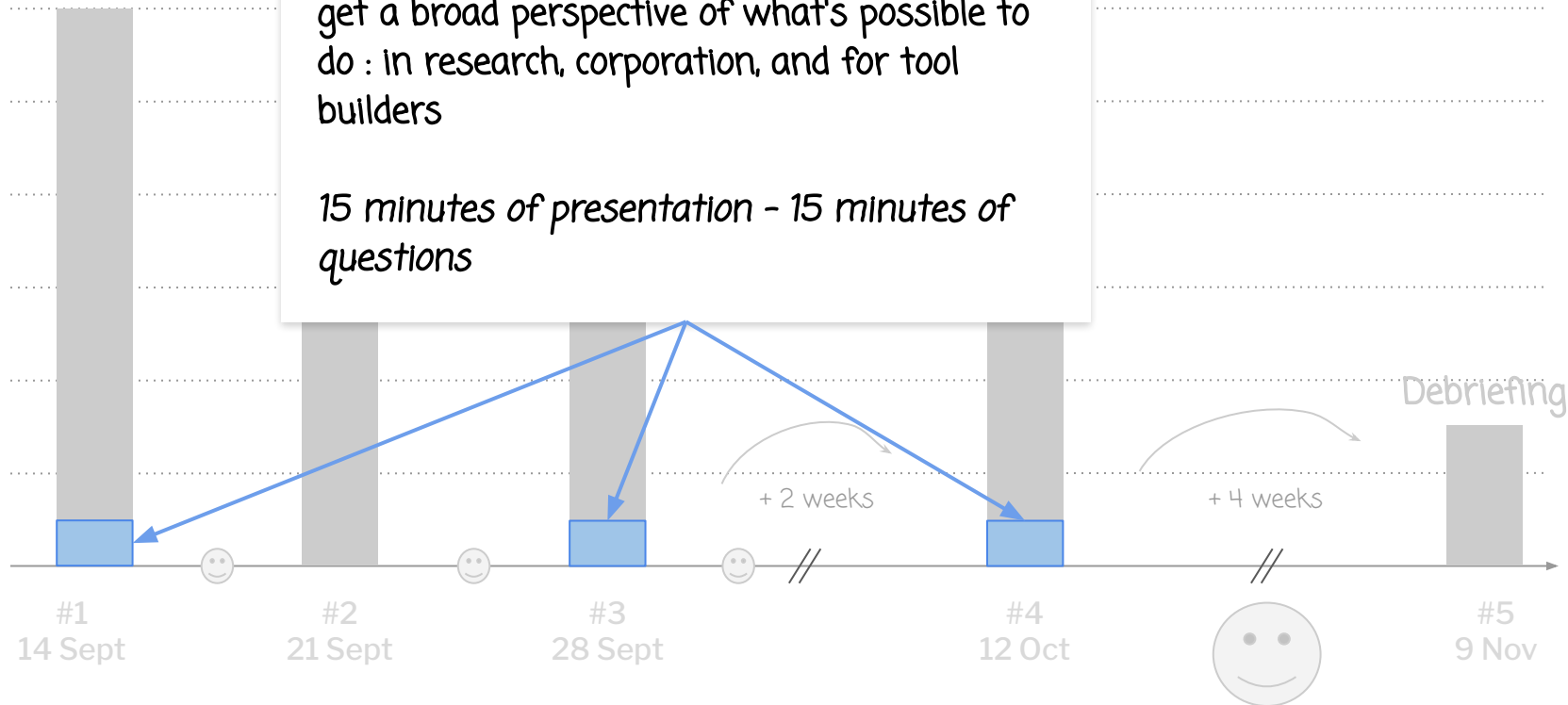
Search for

Class Activities

😊 Homework





Also we will meet and discuss with 3 datavis professionals in different fields, so that you get a broad perspective of what's possible to do : in research, corporation, and for tool builders

15 minutes of presentation - 15 minutes of questions



GRADES

Only homework are graded
(not the practical stuff during the class)

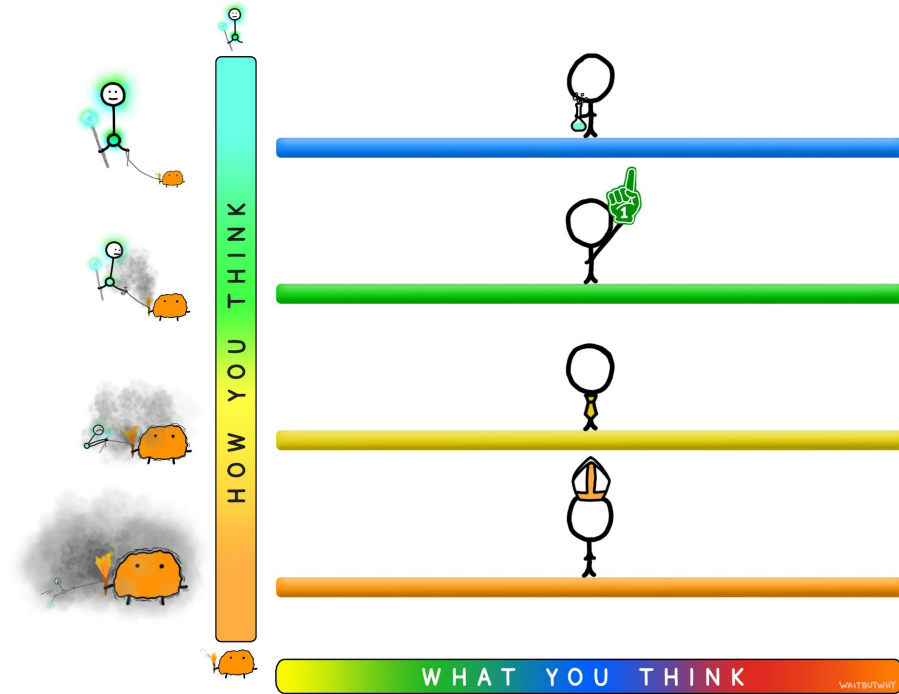
WEIGHT	SKILL	Alone			
		 15 %	 15 %	 20 %	
60 %	literacy				
	critical overview				
	reflexivity and proactivity				
40 %	design				
	create				
	explain				

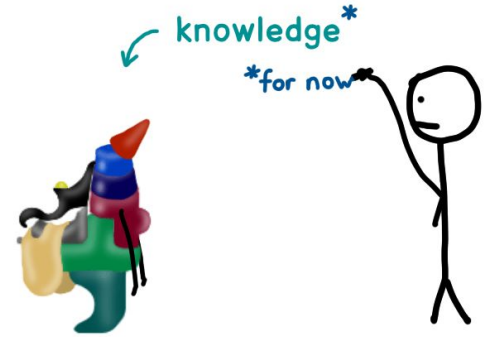
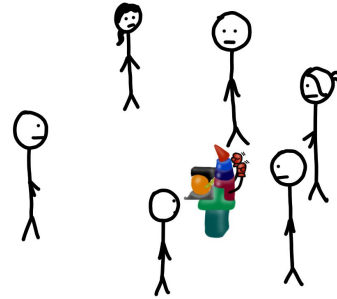
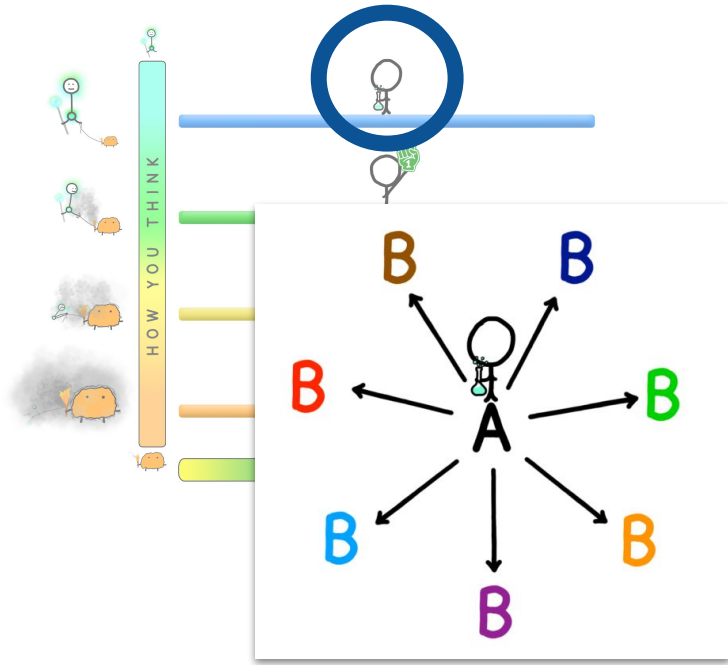
One big project within groups of 2 or 3 people :

- 3 weeks to submit
- 1 week to peer review others

Peer review (assessing reflexivity) will be graded individually

EXPECTATIONS





CURIOSITY

LEARNING TOGETHER

IDEAS ARE NOT
IDENTITY

CARING