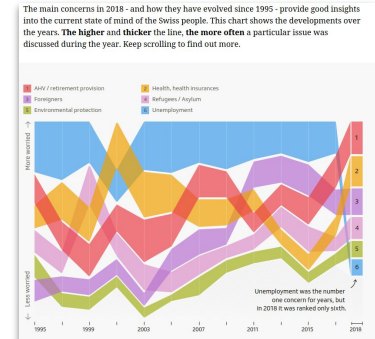
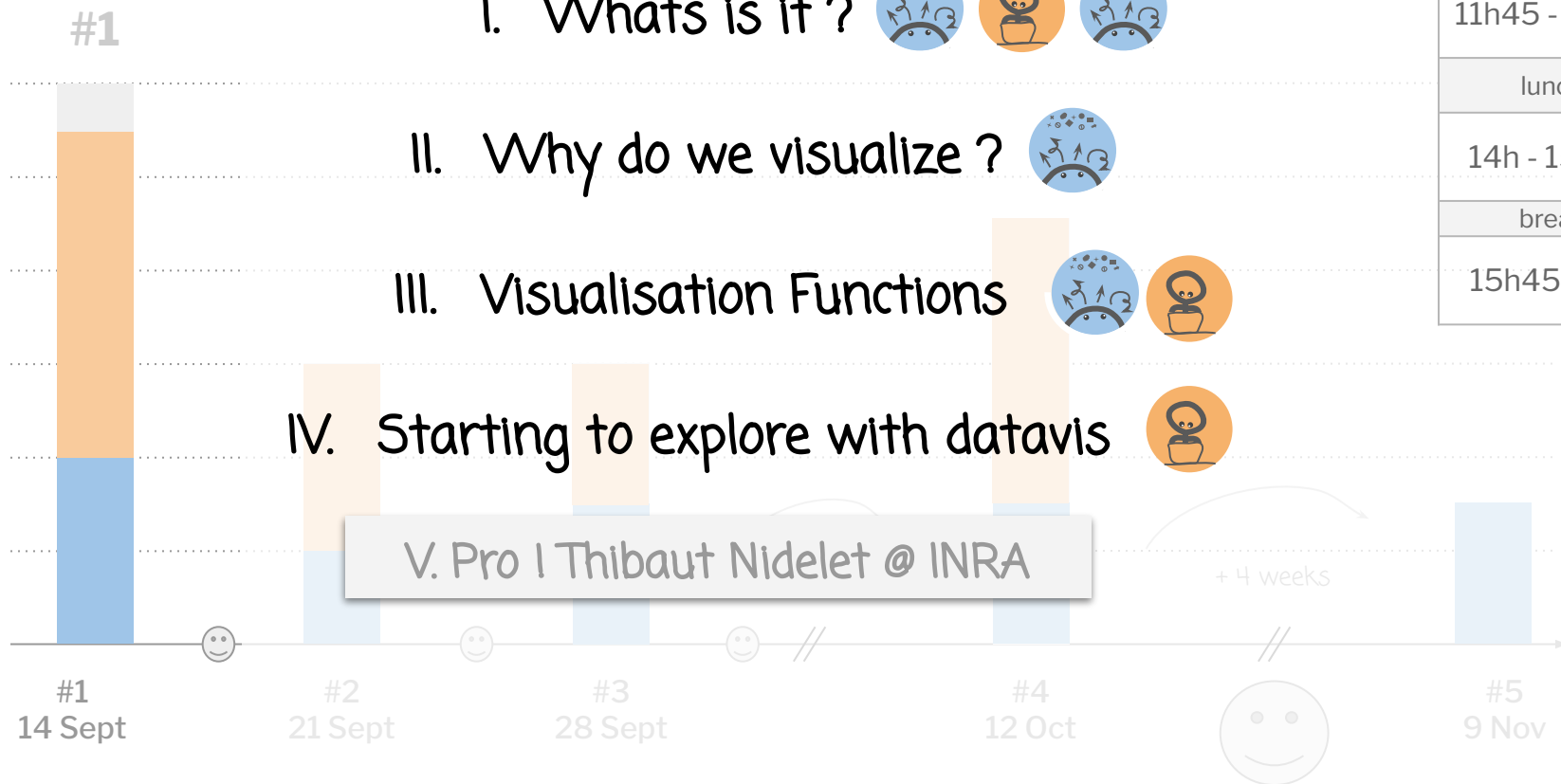


[illegible]



10h - 11h30

break

11h45 - 13h15

lunch

14h - 15h30

break

15h45 - 17h

I. Whats is it ?

II. Why do we visualize ?

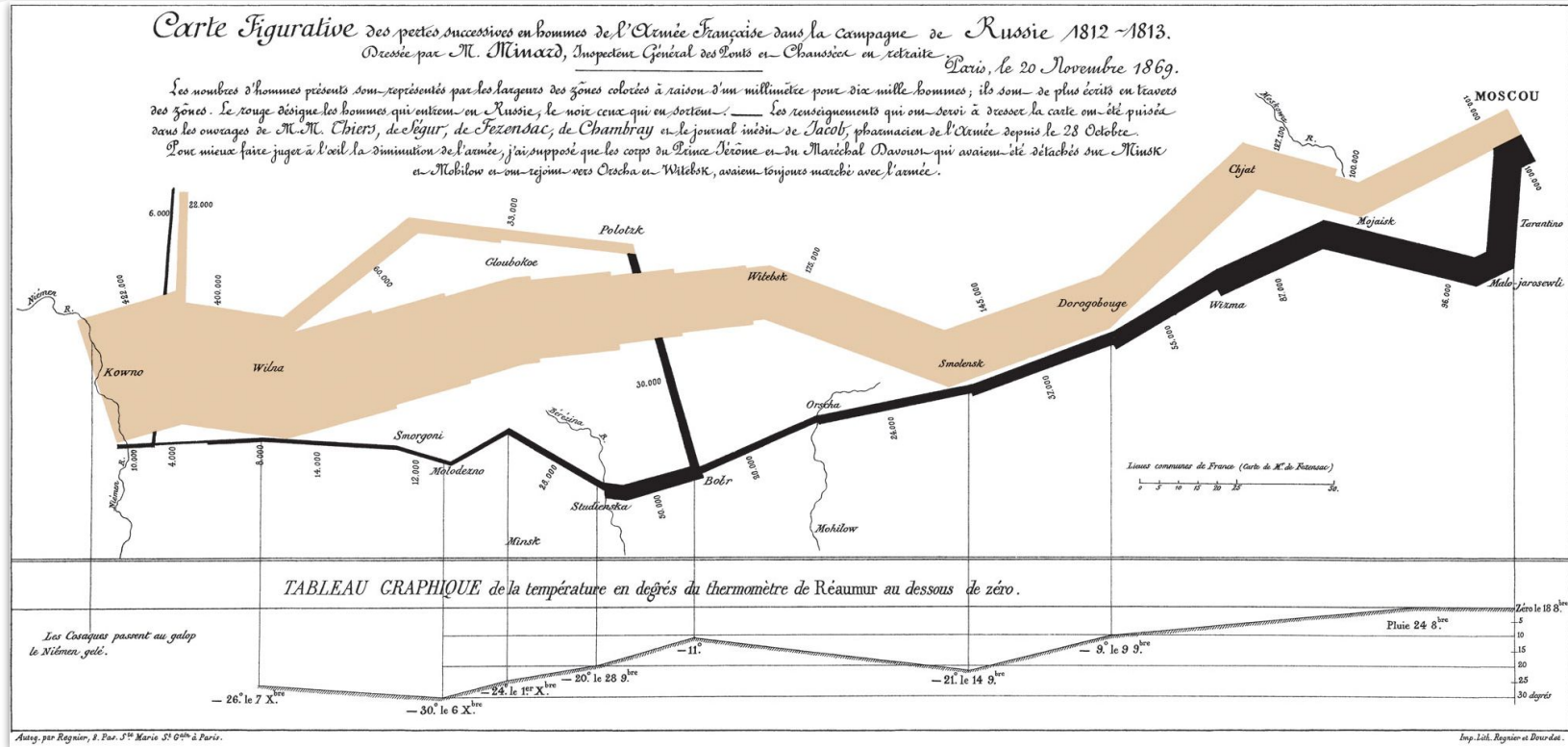
III. Visualisation Functions

IV. Starting to explore with datavis

I. Whats Is it ?

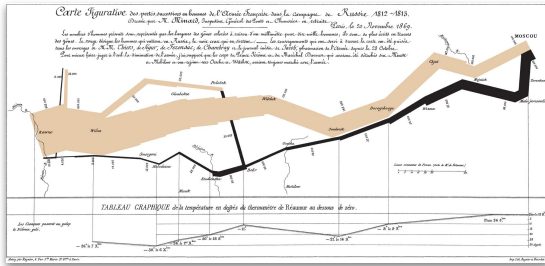


#1



I. Whats Is It ?

#1



VS

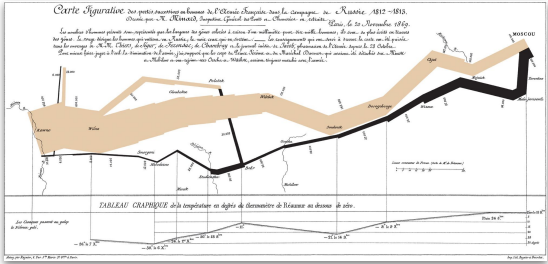
text

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.



I. Whats Is it ?

#1



VS

text

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.



simple table

Date	Center position	# of people	Way go/back	Temperature
12/08	45,5 ; 56,4	10 345	go	N.A.
13/08	47,5 ; 54,2	9 856	go	N.A.
14/08	48,5 ; 50,6	9 756	go	N.A.
15/08	48,9 ; 50	9 432	go	N.A.
...



#1

- Less space
- More lisibility
- Better overall understanding
- Less time to get the big picture
- See something "new"

HOW COME ?



#1

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- More lisibility
- Better overall understanding
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- See something "new"

HOW COME ?



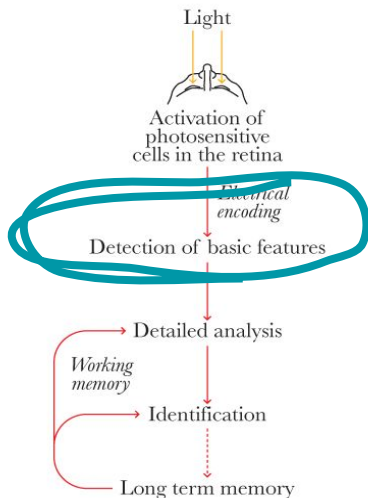


#1

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- Less time to get the big picture
- See something "new"

HOW COME ?

**preattentive
features of
our brain**



shade variations,
patterns in size,
orientation, color
and shade

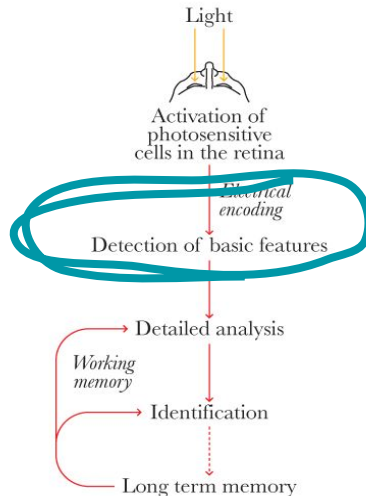


#1

- Less space
- More lisibility
- Better overall understanding
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- See something "new"

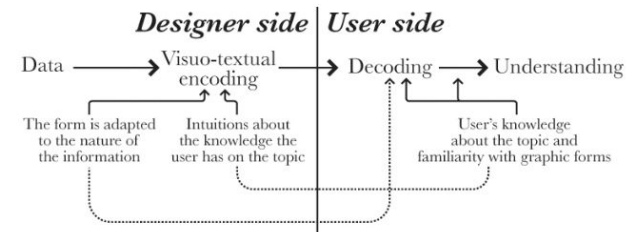
HOW COME ?

preattentive features of our brain



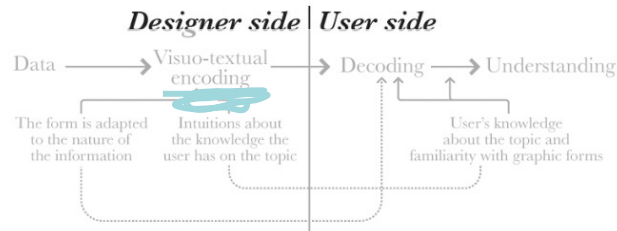
shade variations,
patterns in size,
orientation, color
and shade

encoding





encoding



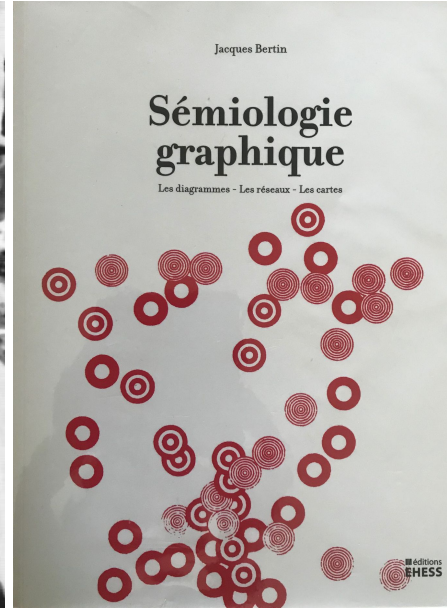
mapping data

Date	Center position	# of people	Way go/back	Temperature
12/08	45,5 ; 56,4	10 345	go	NA.
13/08	47,5 ; 54,2	9 856	go	NA.
14/08	48,5 ; 50,6	9 756	go	NA.
15/08	48,9 ; 50	9 432	go	NA.
...

encoding

with position
size
color ...
visual variables

encoding





encoding

visual variables

position

size

value

texture

color

orientation

shape



encoding

visual variable syntactics



visual variables

position

size

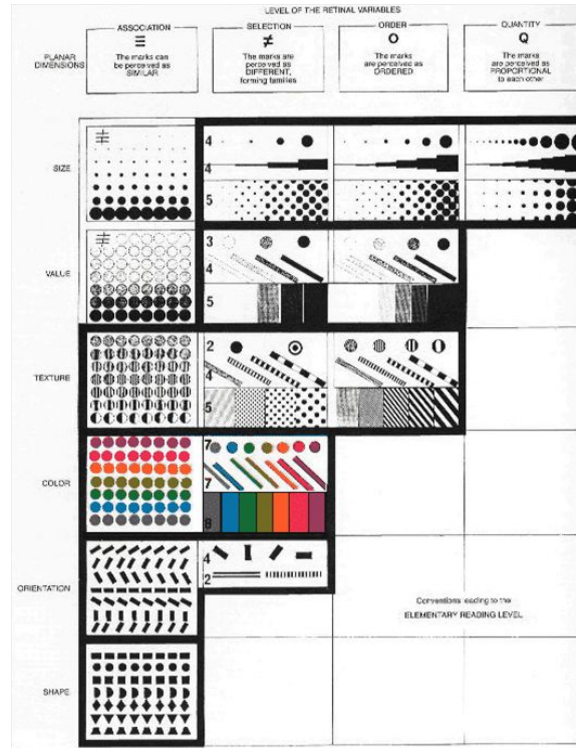
value

texture

color

orientation

shape



association

difference

order

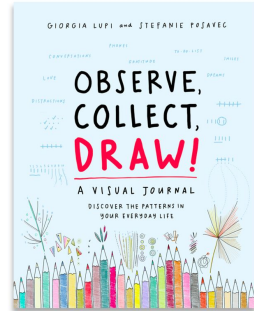
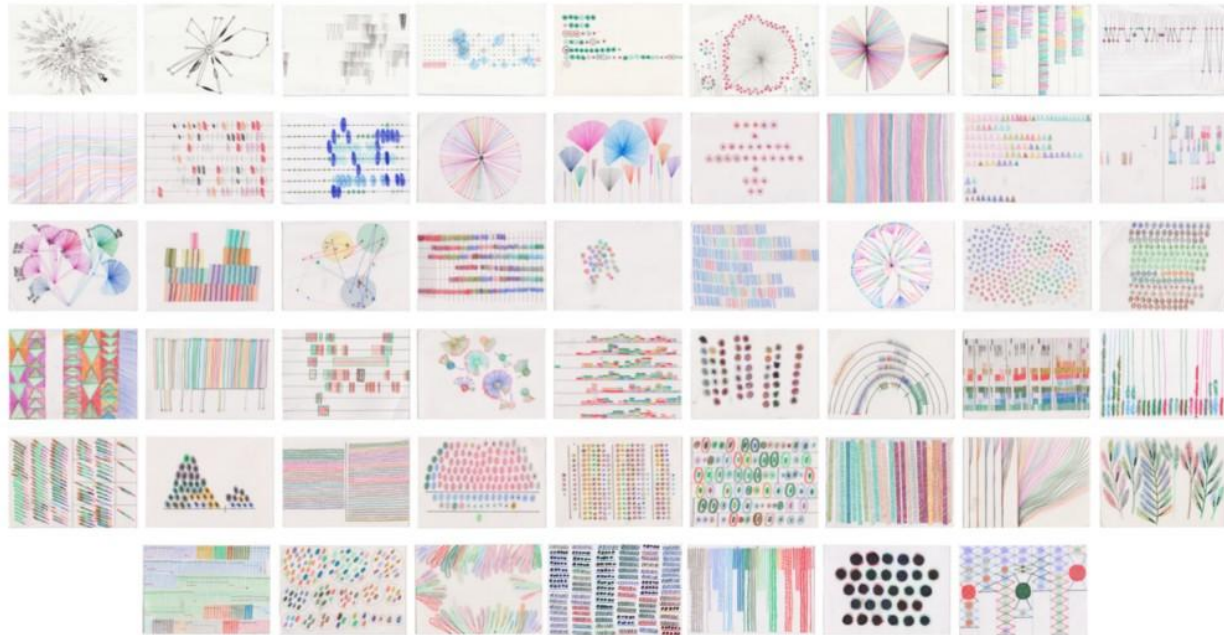
proportion



#1

trying out **encoding**

Making a by-hand data visualisation





1

Collect data

List the following variables for 5 of your friends :

- When did you met them ? [cat : childhood, college, university]
- When was the last time you saw them ? [cat : last week, last month, last year, before]
- Their age [value]
- Their gender [cat : W, M, O]
- How do you communicate with them [mult cat : in person, messaging, call]
- What do you talk about ? [mult cat : studies, hobbies, life doubts, love & relations, work ...]



#1

1

Collect data

2

Use / design an encoding
for each variable

- Individual friend [shape : circle]
- met [position : horizontal axis]
- saw [position : vertical axis]
- age diff [shape : arrow up / down from the dot]
- gender [shape : circle filling]
- communicate [shape : filled / empty croissant]
- talk about [color : add a petal of color for each topic you discuss, with a mapping topic-color]



#1

1

Collect data

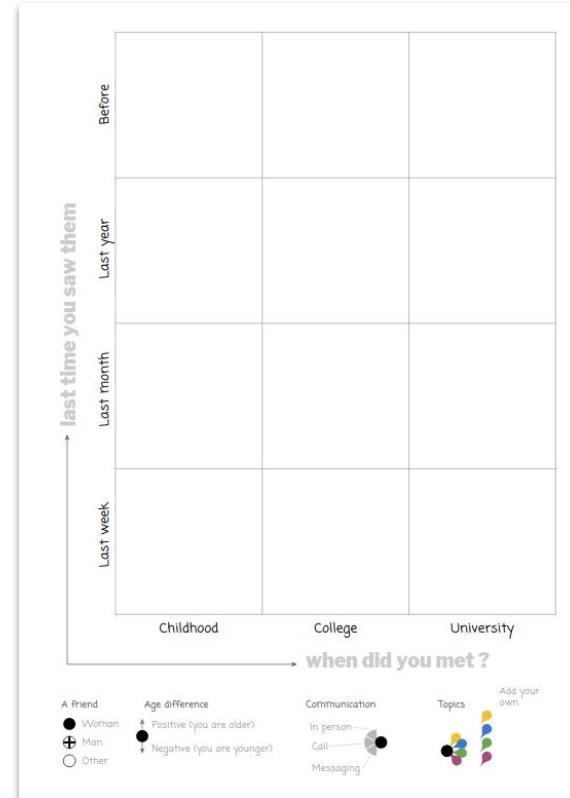
2

Use / design an encoding for each variable

3

Draw

- Individual friend [shape : circle]
- met [position : horizontal axis]
- saw [position : vertical axis]
- age diff [shape : arrow up / down from the dot]
- gender [shape : circle filling]
- communicate [shape : filled / empty croissant]
- talk about [color : add a petal of color for each topic you discuss, with a mapping topic-color]





1

Collect data

2

Use / design an encoding for each variable

3

Draw

4

Reflect



- How did it felt to draw a dataviz ?
- How do you feel about less common encoding and "original" ones ?
- Do you feel it's still readable ?
- Do you see any pattern you were not aware of ?



Whats is it ?

Data visualization refers to the techniques used to communicate data or information by encoding it as visual objects.

Wikipedia



#1

Whats is it ?

Data visualization refers to the techniques used to communicate data or information by encoding it as visual objects.

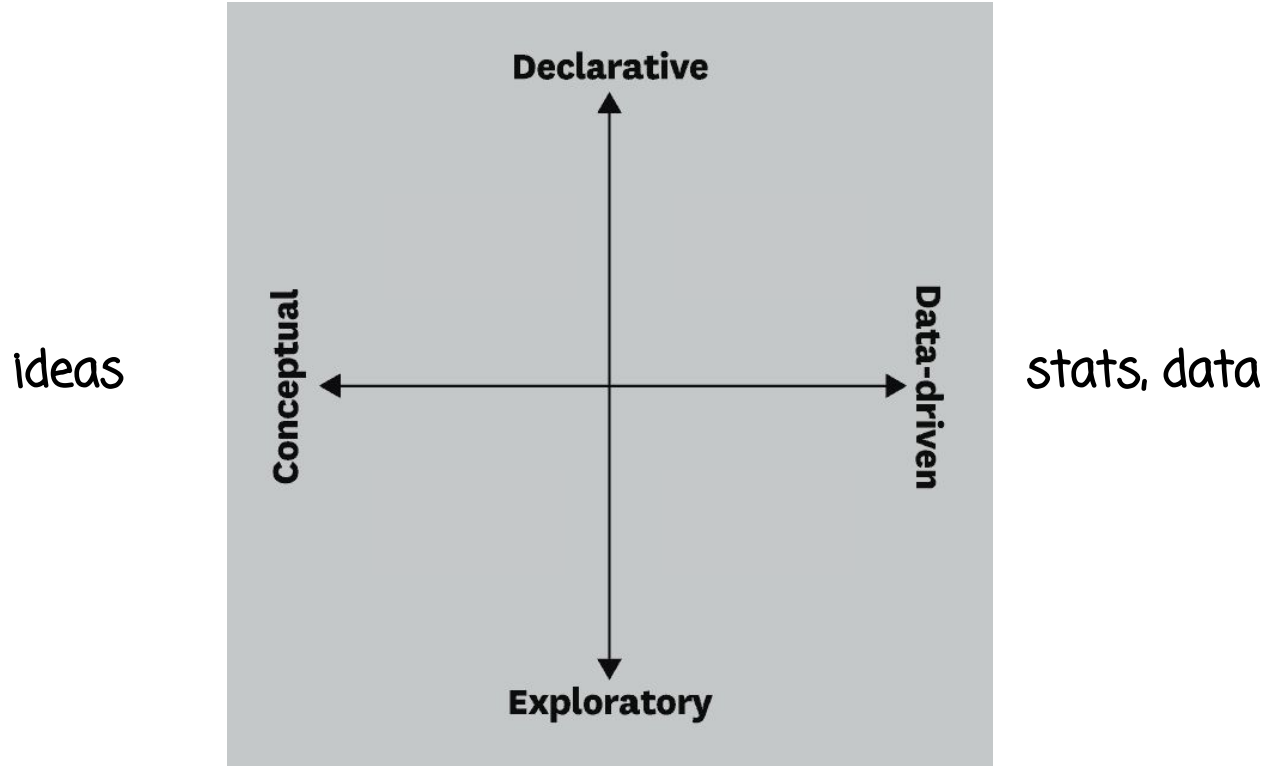
Wikipedia



super badass uses of
preattentive feature to
provide an helpful **cognitive**
help understand (complex)
topics

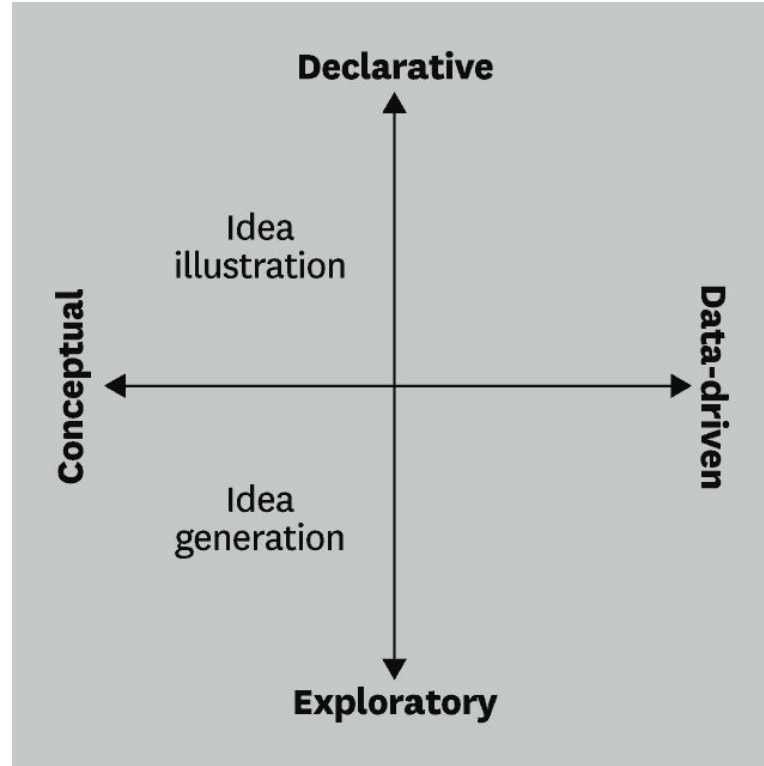


#1



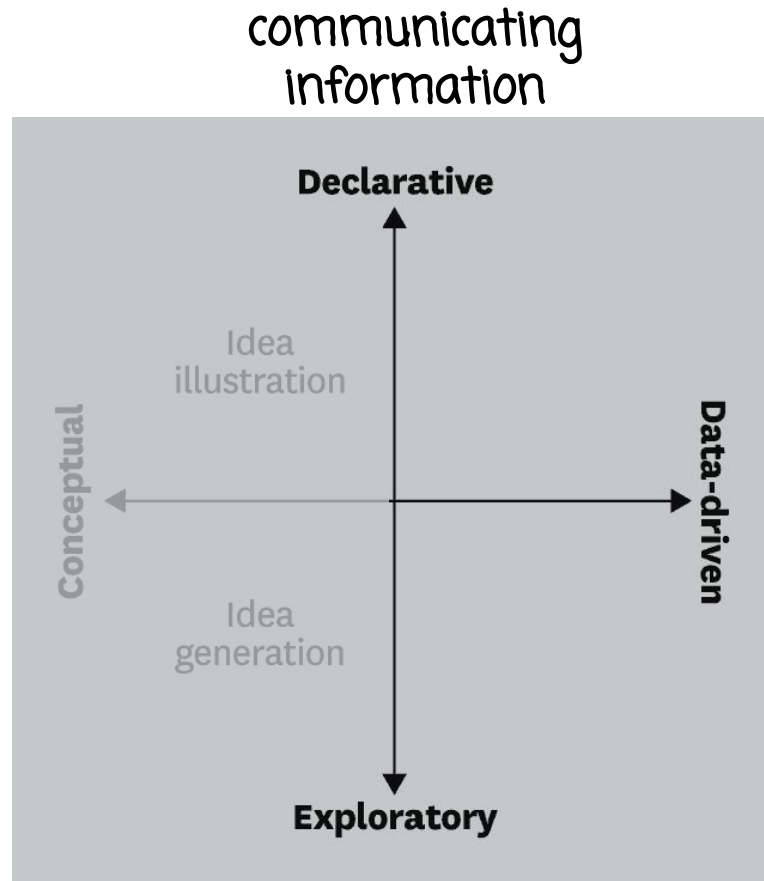


#1





#1



trying to figure something out

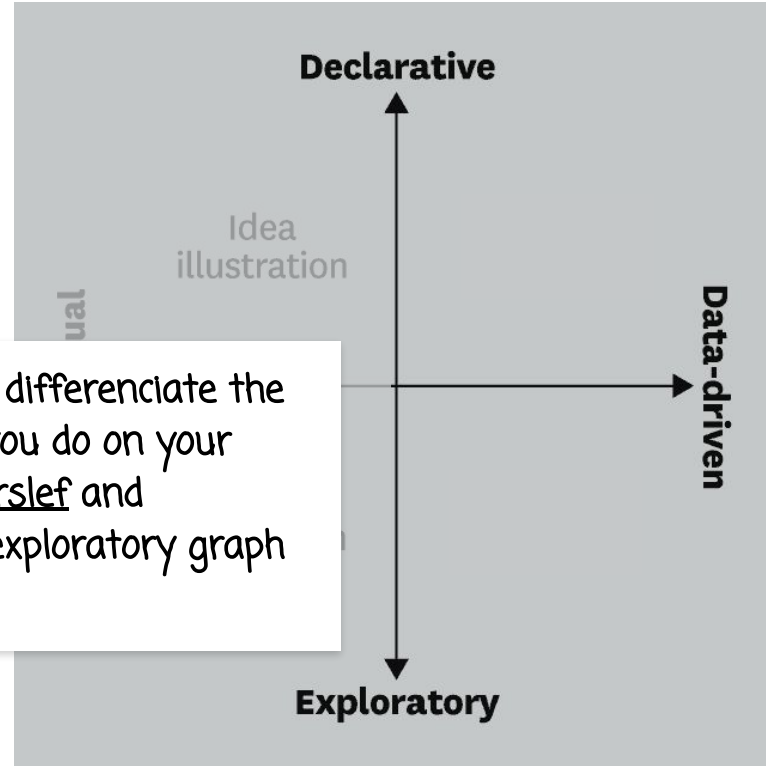
- confirmation
- discovery



#1

communicating
information

We can also differentiate the exploration you do on your own, for yourself and creating an exploratory graph for users

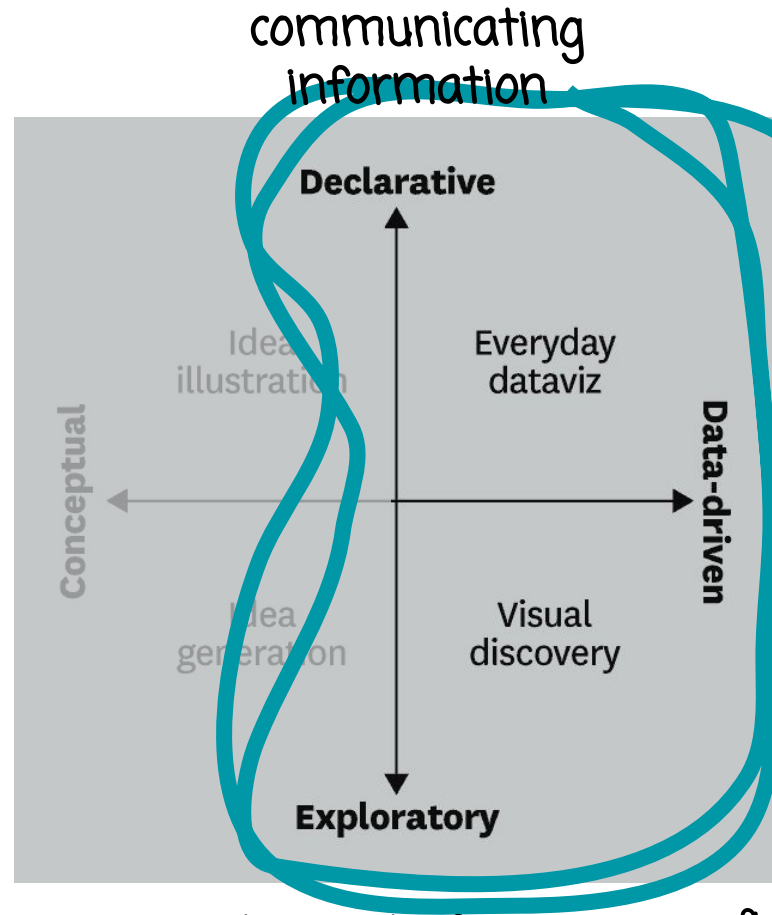


trying to figure something out

- confirmation
- discovery



#1

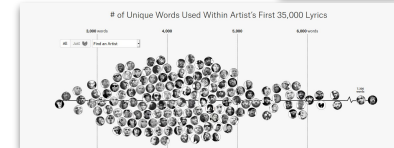
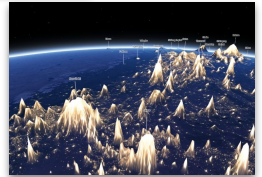
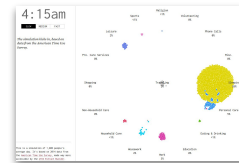
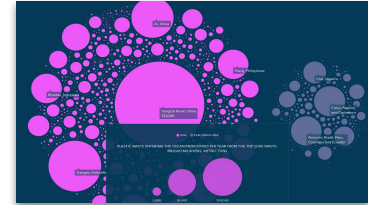
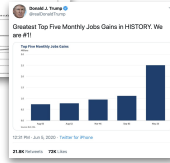
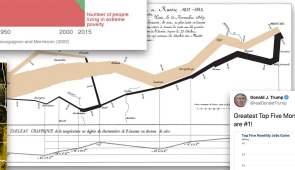
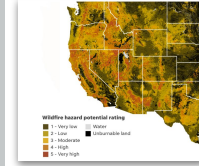
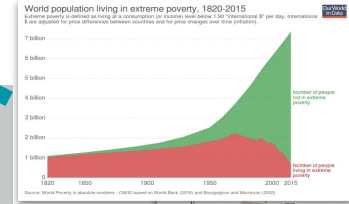
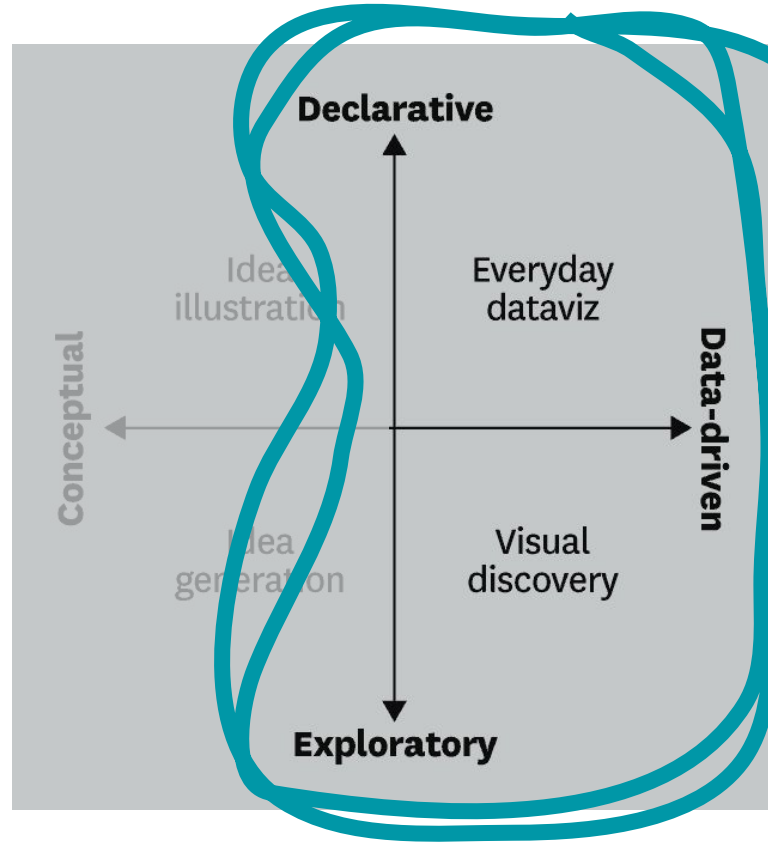


trying to figure something out

- confirmation
- discovery

I. Whats Is It ?

#1





#1

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Wikipedia



super badass uses of
preattentive feature to
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help understand (complex)
topics



from **declarative** to
exploratory
depending on what
you want to achieve



#1

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preattentive feature to
provide an helpful **cognitive**
help understand (complex)
topics

but wait.
what for ? why ?
goals ?



from **declarative** to
exploratory
depending on what
you want to achieve

- I. Whats is it ?
- II. Why do we visualize ?
- III. Visualisation Functions
- IV. Starting to explore with datavis



#1

@lisacrost

Attention
& Beauty

Under-
standing

Implication

Goals of
Data Vis

[@lisacrost](#)

create & write
about Data Vis,
currently for
[Datawrapper](#)

<http://lisacharlotterost.de/>



#1

@lisacrost

Attention
& Beauty

Goals of Data Vis

1. Get them to read
2. Attract different learning types
3. Go with the hype
4. Create beauty

[@lisacrost](#)

create & write
about Data Vis,
currently for
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<http://lisacharlotterost.de/>

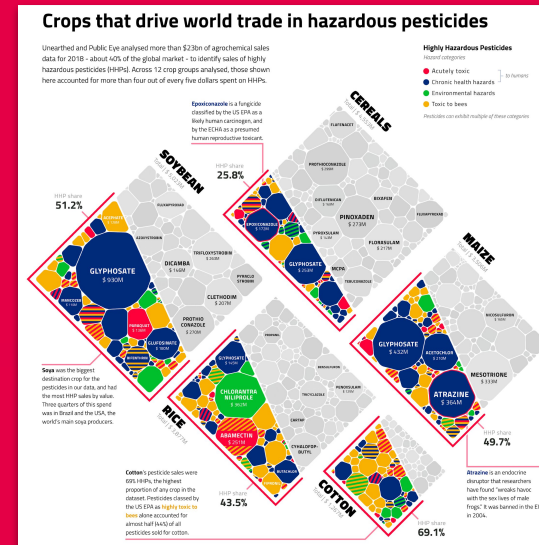


Attention & Beauty

Goals of Data Vis

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@lisacrost



@lisacrost

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1. Understand
2. Explain
3. Get people to explore

[@lisacrost](#)

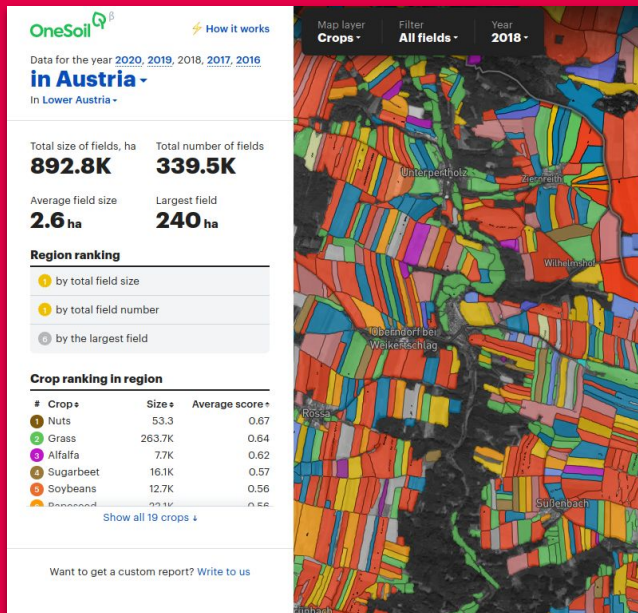
create & write
about Data Vis,
currently for
[Datawrapper](#)

<http://lisacharlotterost.de/>

II. Why visualize ?



@lisacrost



Under-
standing

1. Understand
2. Explain
3. Get people to explore

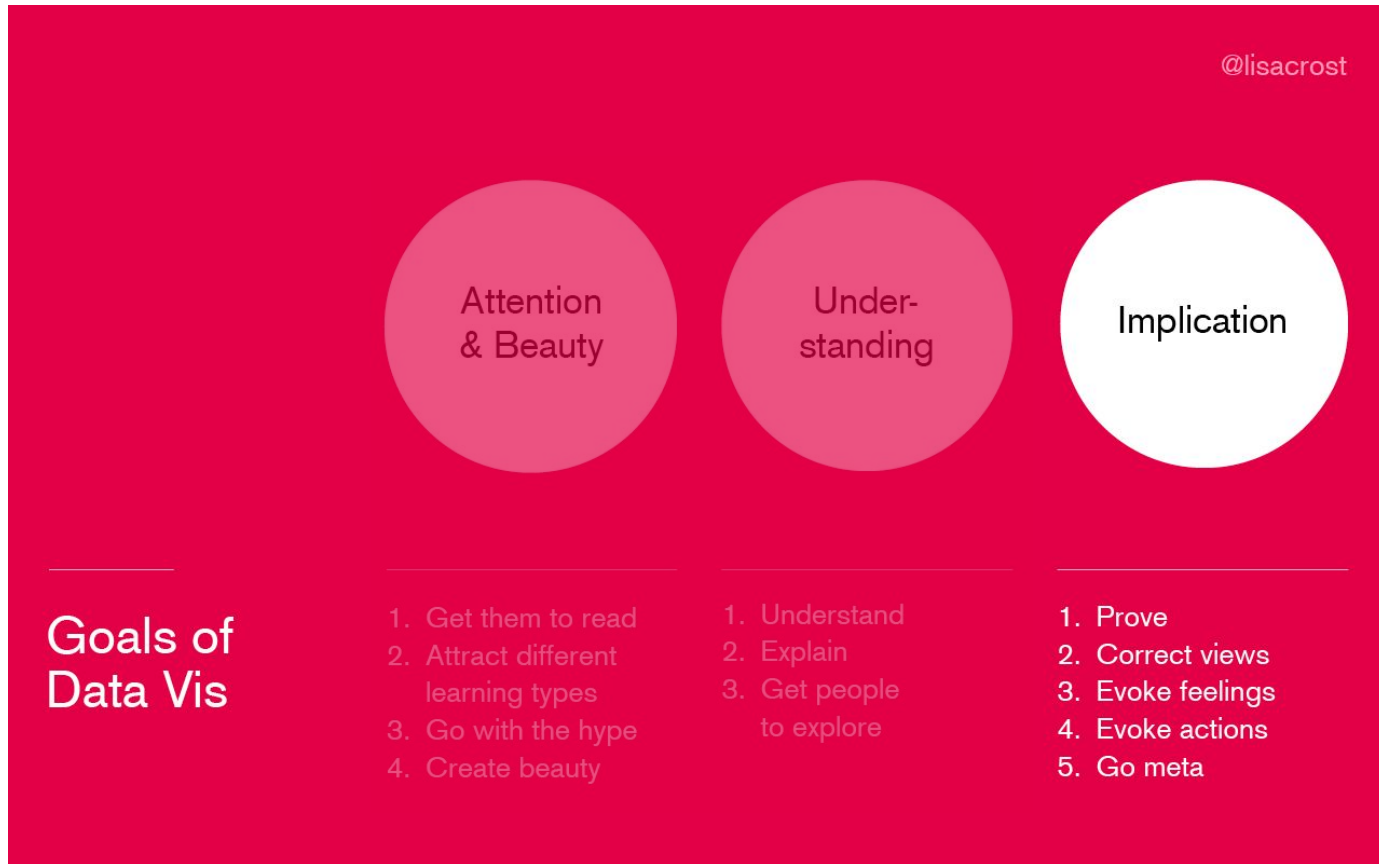
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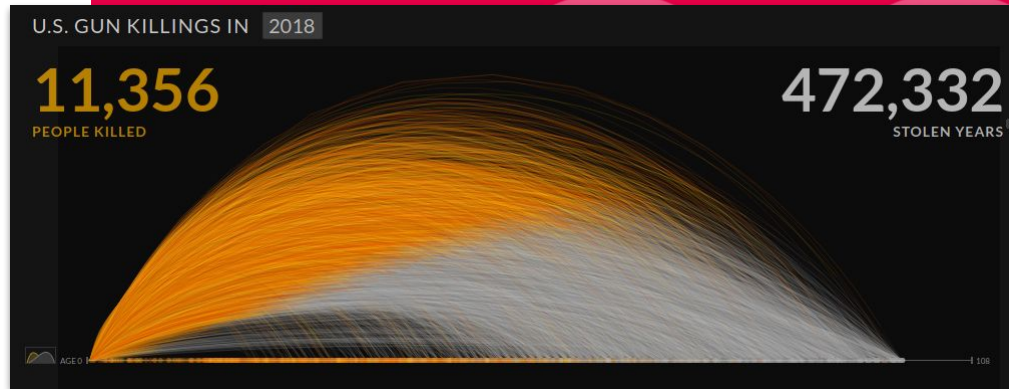
<http://lisacharlotterost.de/>

II. Why visualize ?



#1

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Implication

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create & write
about Data Vis,
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[Datawrapper](#)

<http://lisacharlotterost.de/>

Goals of Data Vis

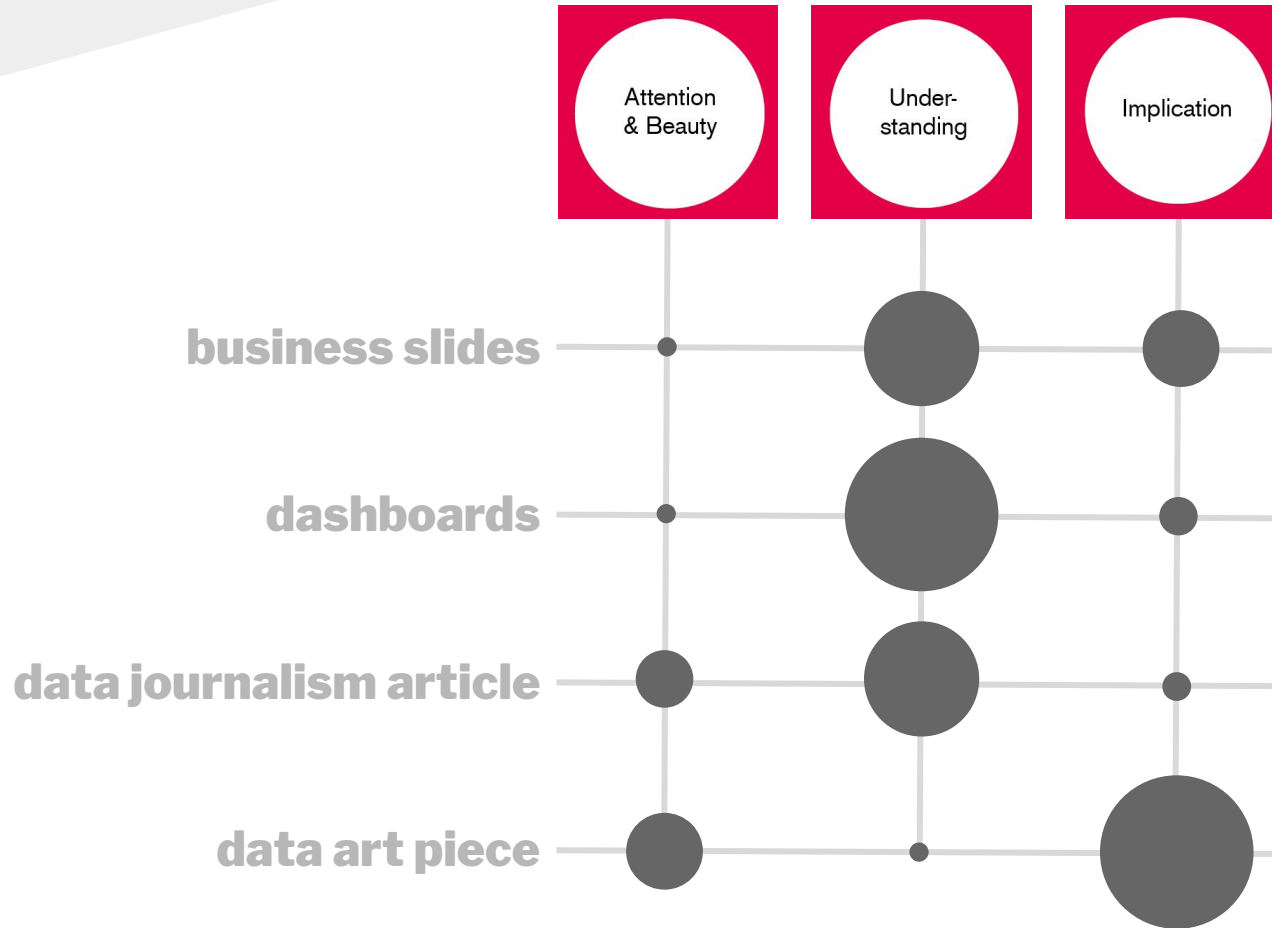
1. Get them to read
2. Attract different learning types
3. Go with the hype
4. Create beauty

1. Understand
2. Explain
3. Get people to explore

1. Prove
2. Correct views
3. Evoke feelings
4. Evoke actions
5. Go meta



#1





GOALS



MEANS ?

Attention
& Beauty

1. Get them to read
2. Attract different learning types
3. Go with the hype
4. Create beauty

Under-
standing

1. Understand
2. Explain
3. Get people to explore

Implication

1. Prove
2. Correct views
3. Evoke feelings
4. Evoke actions
5. Go meta

To be continued Day 3