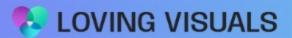


DATA
VISUALIZATION
FOR REPORTS
AND PRESENTATIONS

LET'S START! →





DATA
VISUALIZATION
FOR REPORTS
AND PRESENTATIONS

MODULE 1

INTRODUCTION



#### Objectives



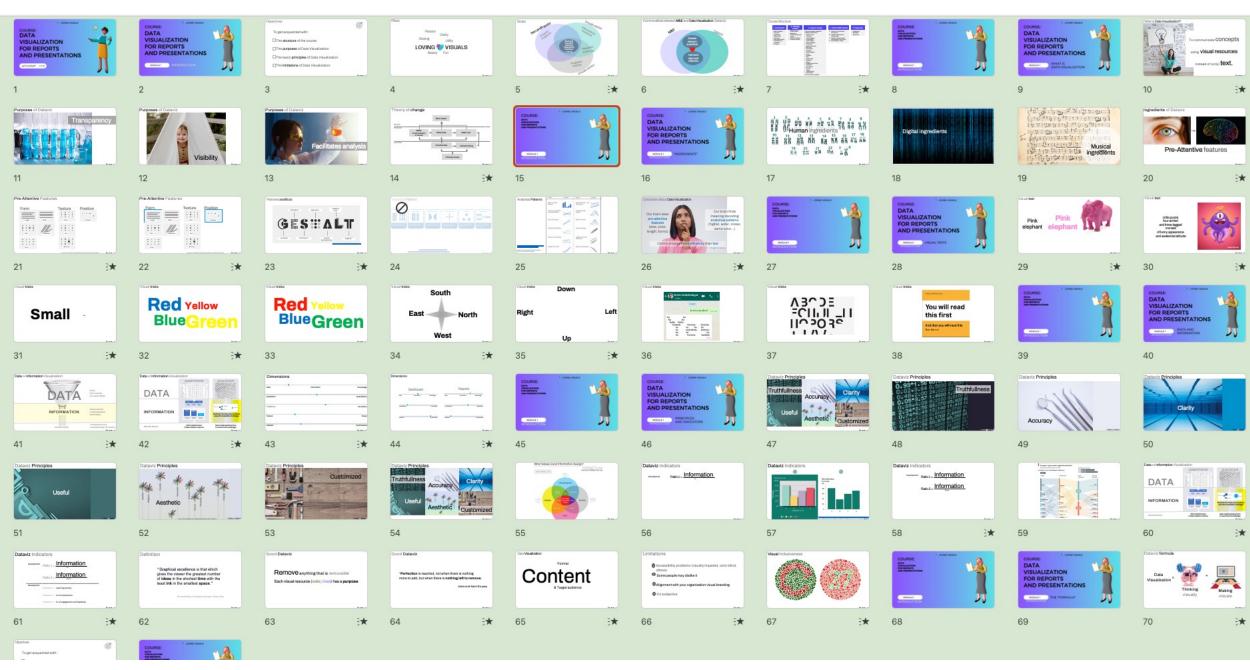
To get acquainted with:

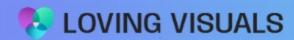
The concept of Data Visualization

The purposes of Data Visualization

The basic principles of Data Visualization

The limitations of Data Visualization

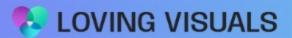




DATA
VISUALIZATION
FOR REPORTS
AND PRESENTATIONS

MODULE 1
INTRODUCTION





DATA
VISUALIZATION
FOR REPORTS
AND PRESENTATIONS

MODULE 1
INTRODUCTION

WHAT IS DATA VISUALIZATION



#### What is Data Visualization?



To communicate Concepts

using visual resources

instead of (only) text.

### Purposes of Dataviz



Purposes of Dataviz



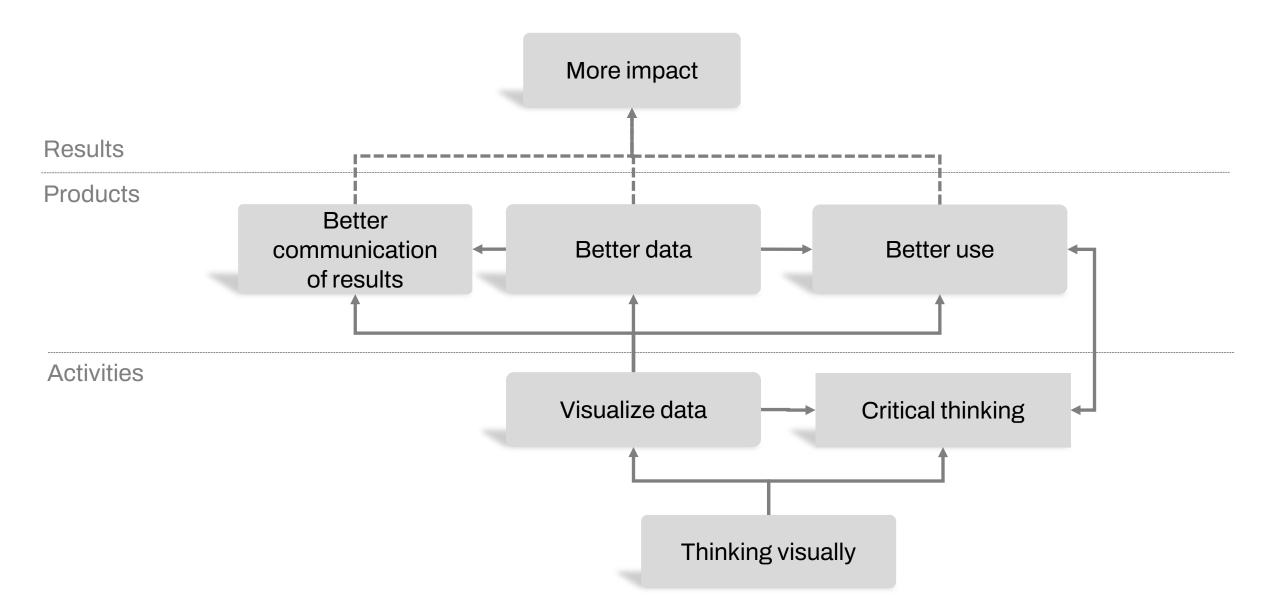


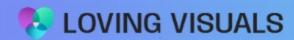
Purposes of Dataviz



LOVING VISUALS

### Theory of change

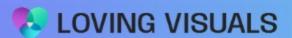




DATA
VISUALIZATION
FOR REPORTS
AND PRESENTATIONS

MODULE 1
INTRODUCTION



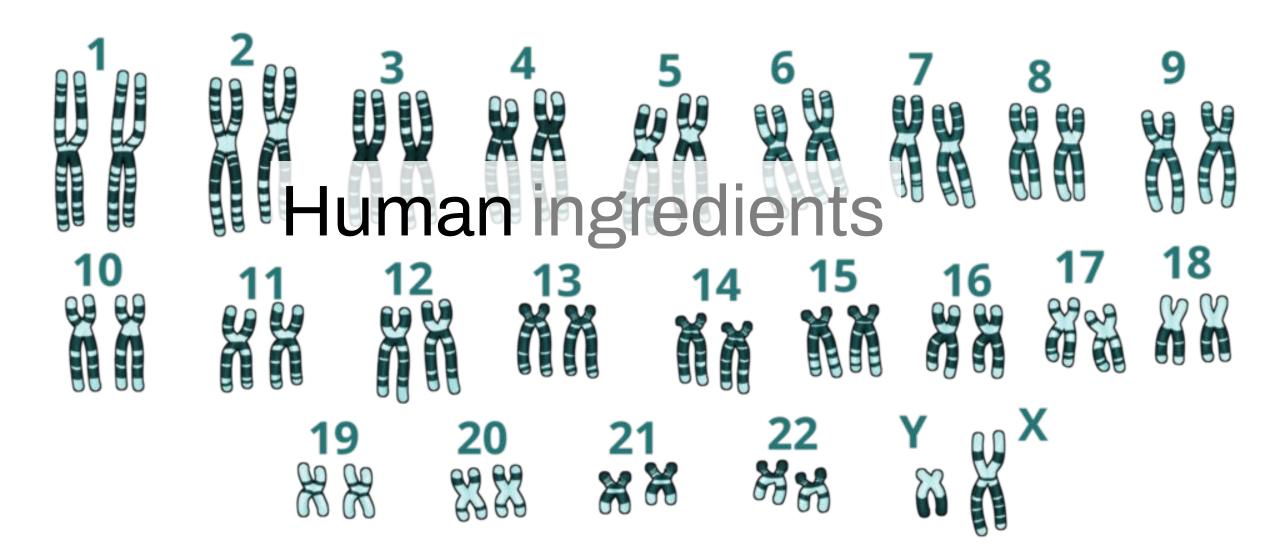


# DATA VISUALIZATION FOR REPORTS AND PRESENTATIONS

MODULE 1
INTRODUCTION

"INGREDIENTS"

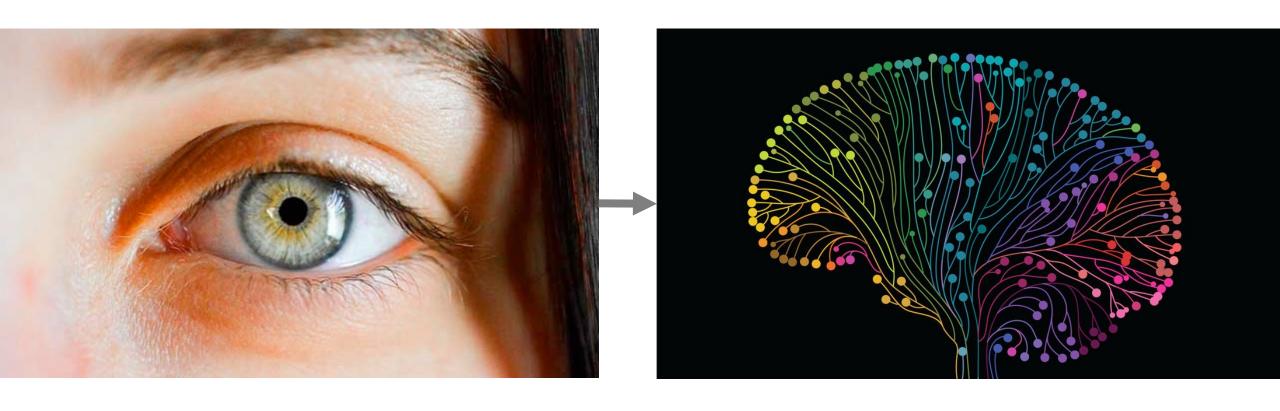








### Ingredients of Dataviz

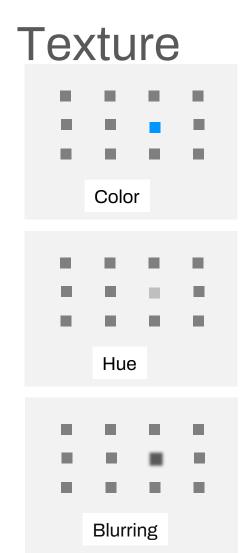


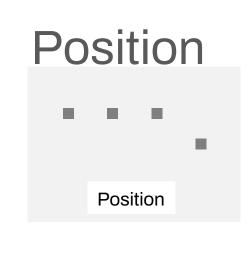
Pre-Attentive features



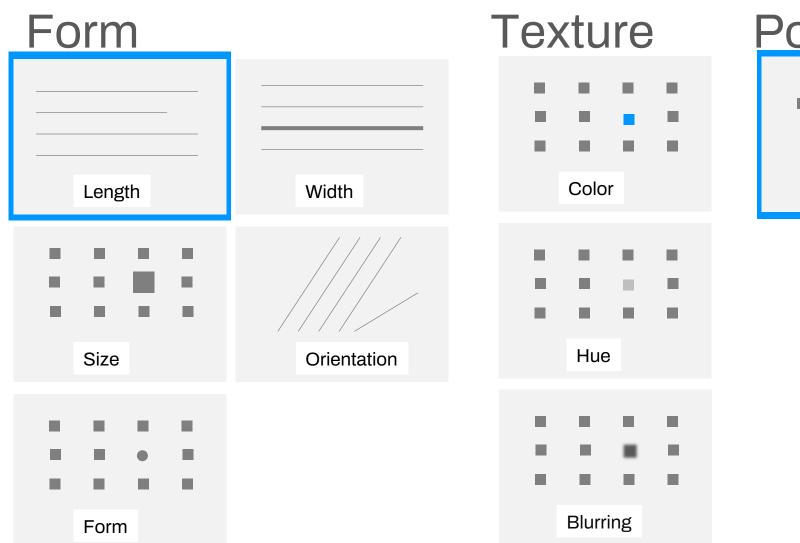
#### **Pre-Attentive Features**

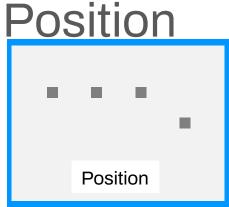
### Form Length Width Size Orientation Form



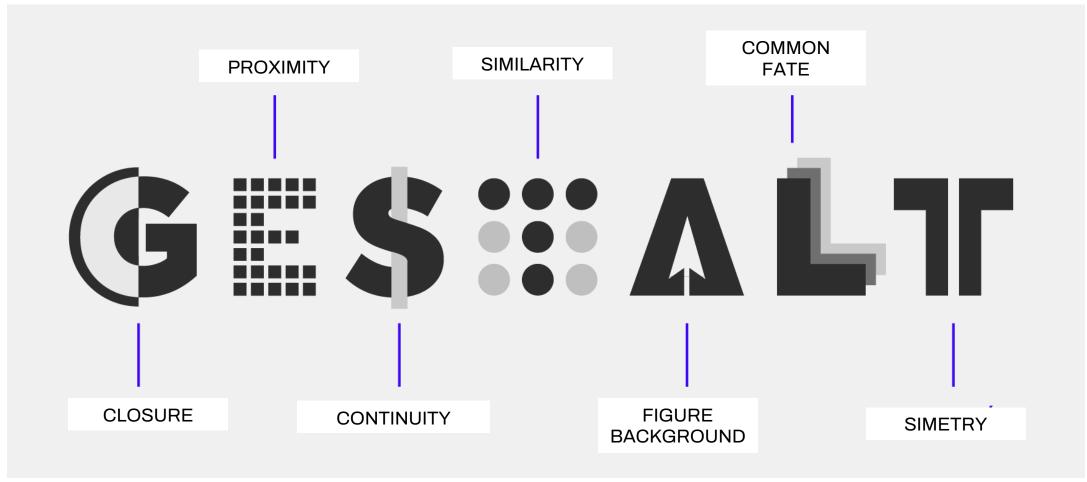


#### **Pre-Attentive Features**



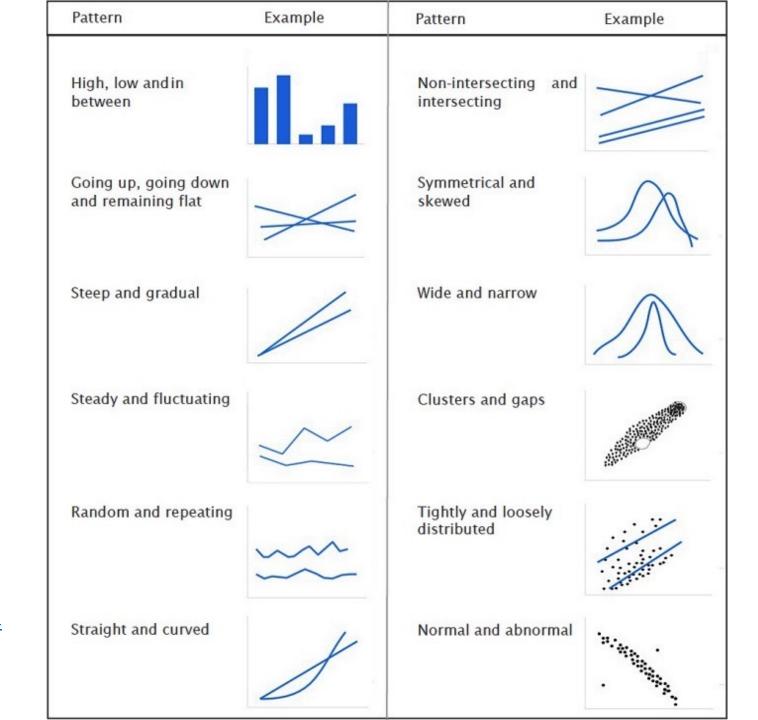


#### Analytic patterns



https://imborrable.com/blog/teoria-de-la-gestalt/

#### **Analytical Patterns**



https://www.fusioncharts.com/blog/data-visualization-tips-and-tricks-to-turbocharge-your-charts/

Stephen Few, Now You See It: Simple Visualization Techniques for Quantitative Analysis



#### Conclusion about Data Visualization

Our brain sees
pre-attentive
features
(size, color,
length, forms)

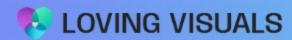


Our brain finds meaning decoding analytical patterns (higher, wider, closer, same color...)

Communicates more efficiently than text

(though not always).

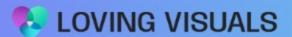




DATA
VISUALIZATION
FOR REPORTS
AND PRESENTATIONS

MODULE 1
INTRODUCTION





DATA
VISUALIZATION
FOR REPORTS
AND PRESENTATIONS

MODULE 1
INTRODUCTION

**VISUAL TESTS** 



Visual test

Pink

Pink elephant elephant



#### Visual test

Little purple
four-armed
and three-legged
monster
of funny appearance
and awakened attitude



# Small

Big



# Red Yellow BlueGreen

# Red Yellow BlueGreen

# South

East

West



## Down

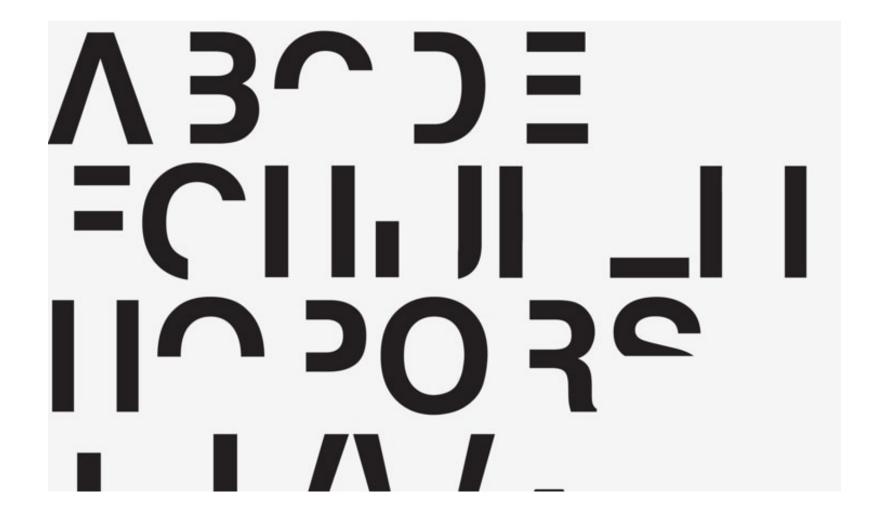
Right

Left









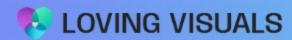
And you will read this last

# You will read this first

And then you will read this

Then this one

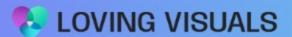




DATA
VISUALIZATION
FOR REPORTS
AND PRESENTATIONS

MODULE 1
INTRODUCTION





DATA
VISUALIZATION
FOR REPORTS
AND PRESENTATIONS

MODULE 1
INTRODUCTION

DATA AND INFORMATION



#### **Data or Information Visualization**



Facts.
Raw material.
Non understandable.



Data analyzed.
Understandable.
Comprehensible.



Consequences of understanding information



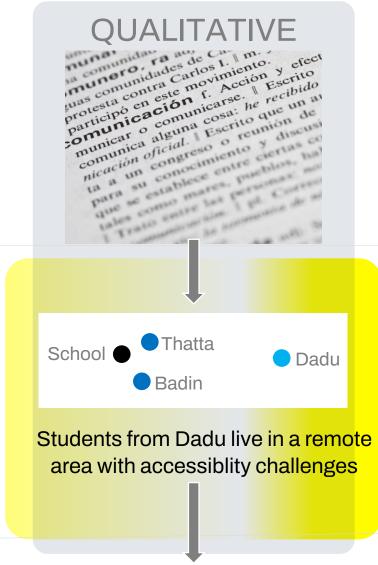
#### **Data or Information Visualization**

# DATA

#### INFORMATION



School performance in Dadu needs to improve

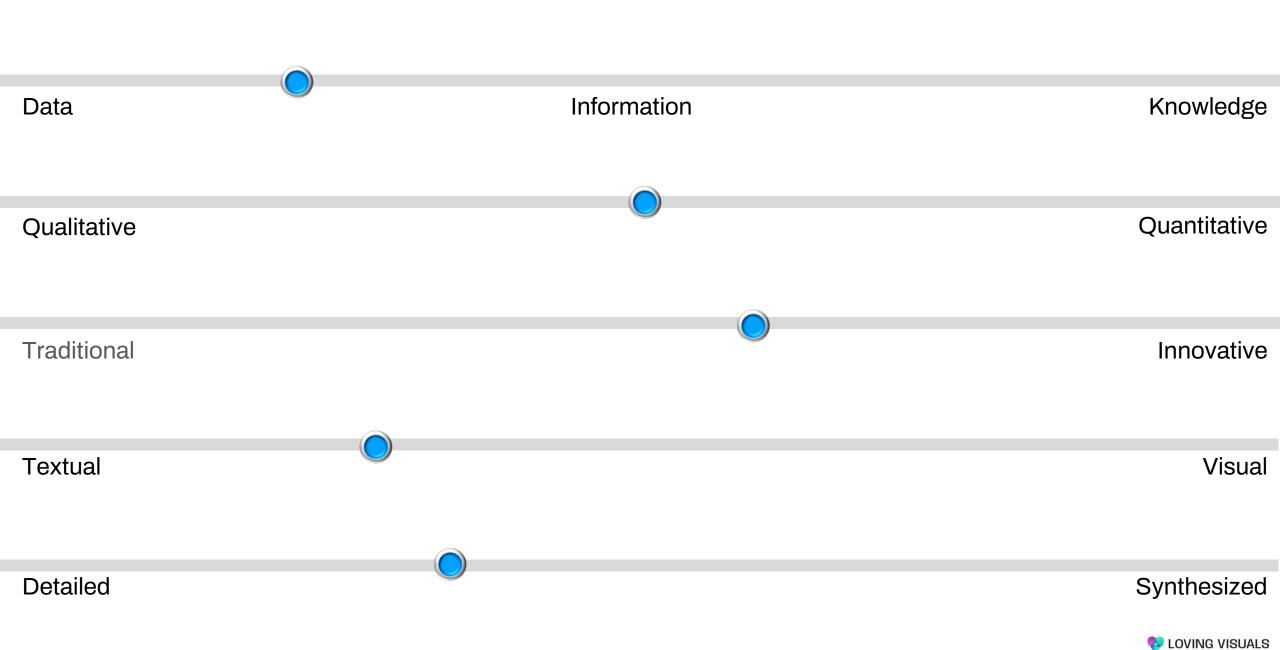


Dadu needs special actions to overcome the challenges

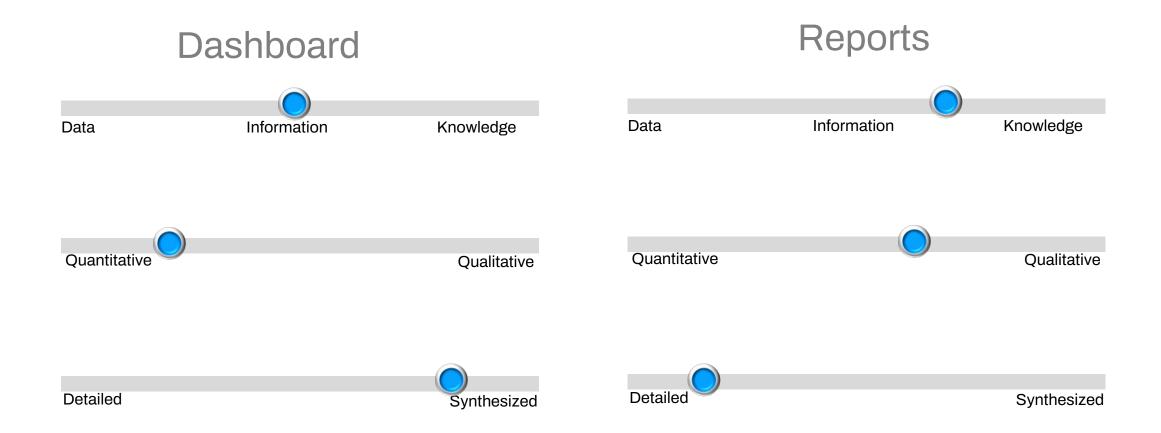
**KNOWLEDGE** 

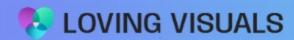
**!** LOVING VISUALS

#### **Dimensions**



#### **Dimensions**



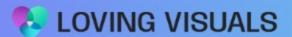


#### **COURSE:**

DATA
VISUALIZATION
FOR REPORTS
AND PRESENTATIONS

MODULE 1
INTRODUCTION





#### COURSE:

# DATA VISUALIZATION FOR REPORTS AND PRESENTATIONS

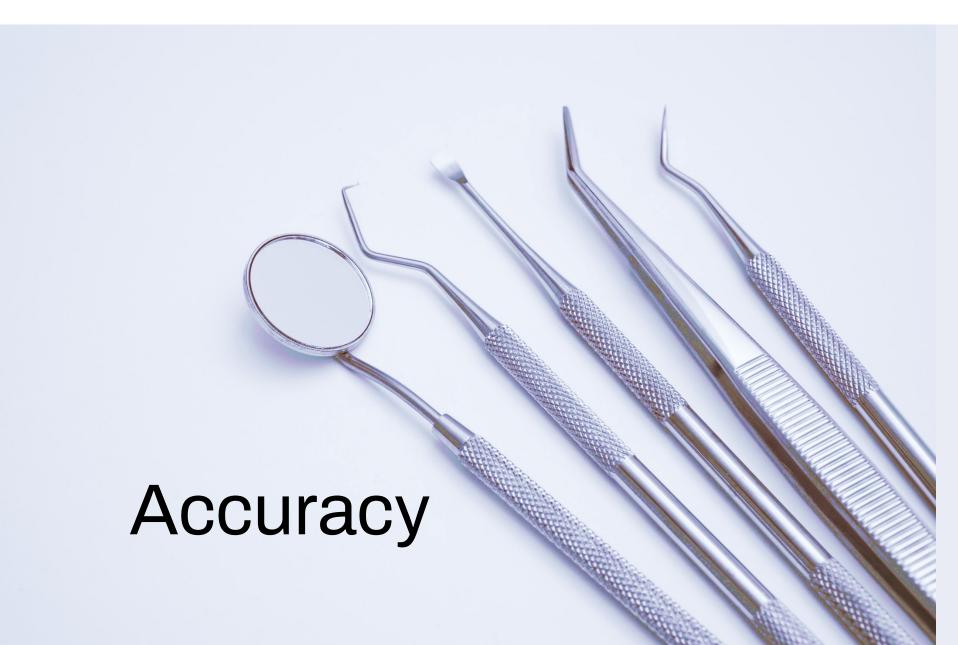
MODULE 1
INTRODUCTION

PRINCIPLES AND INDICATORS



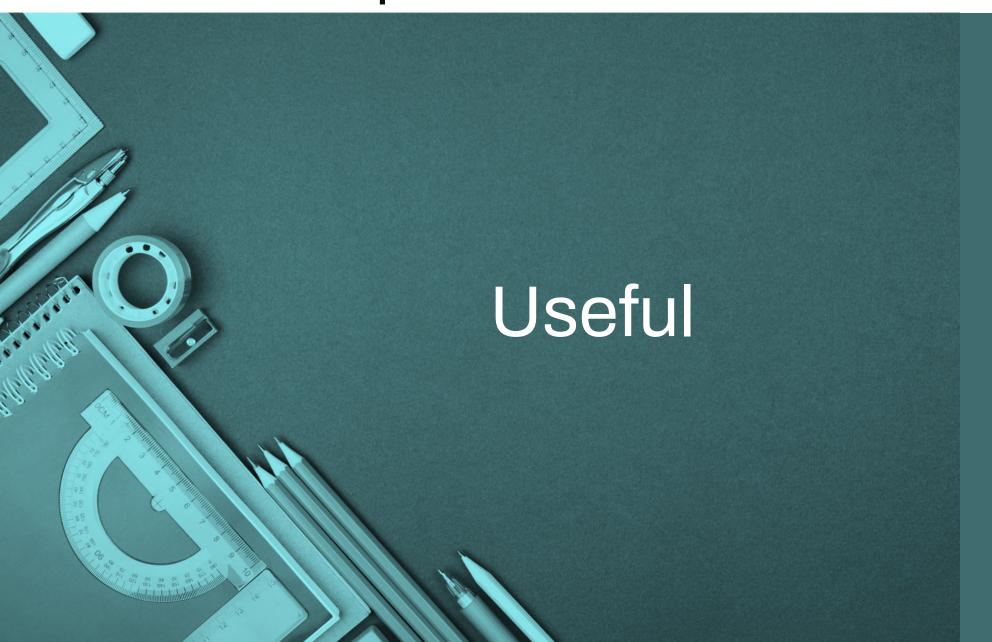


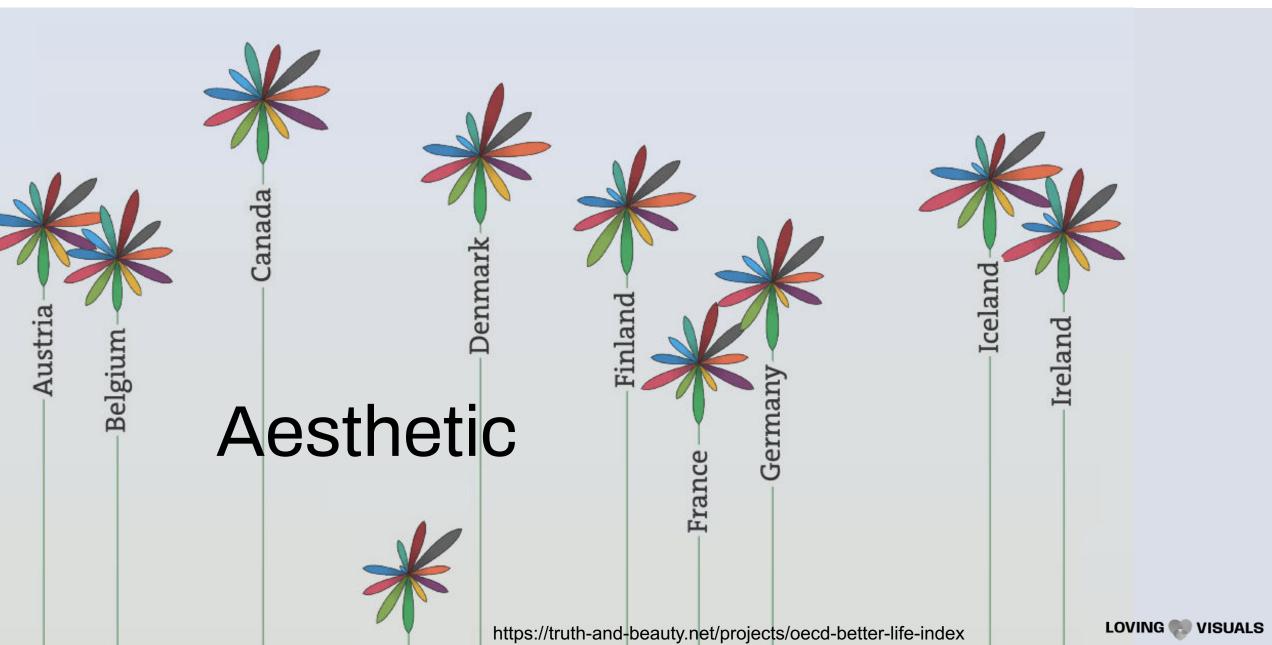


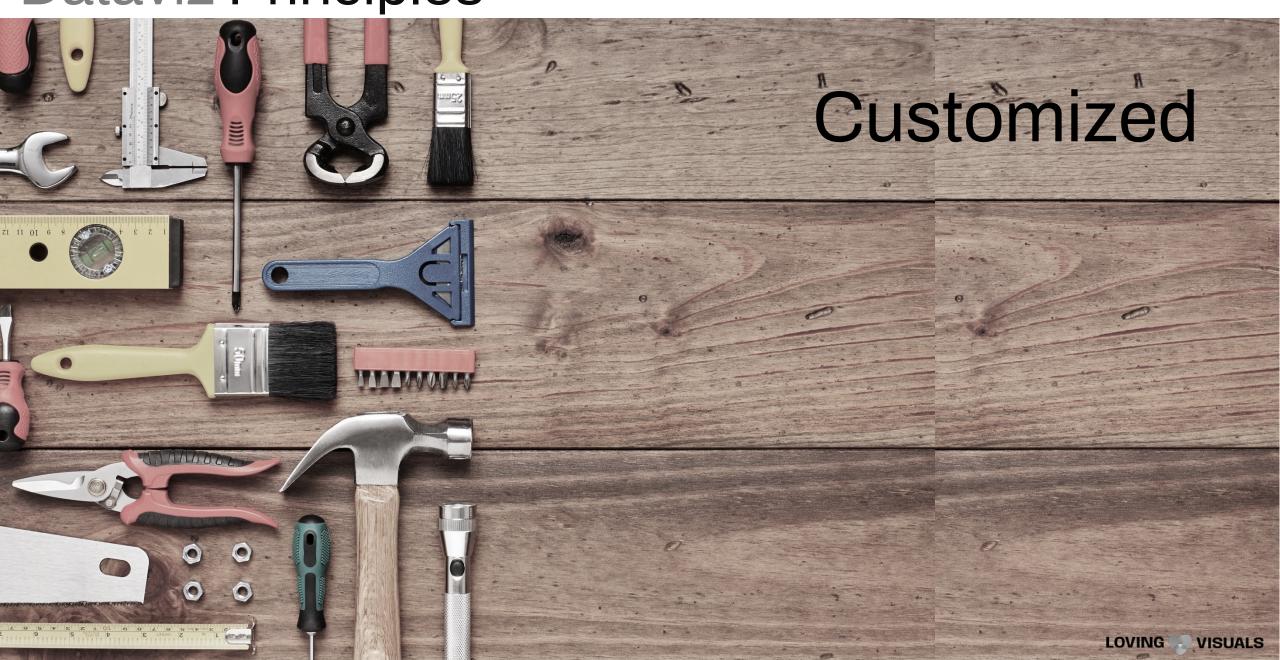


Dataviz Principles Clarity



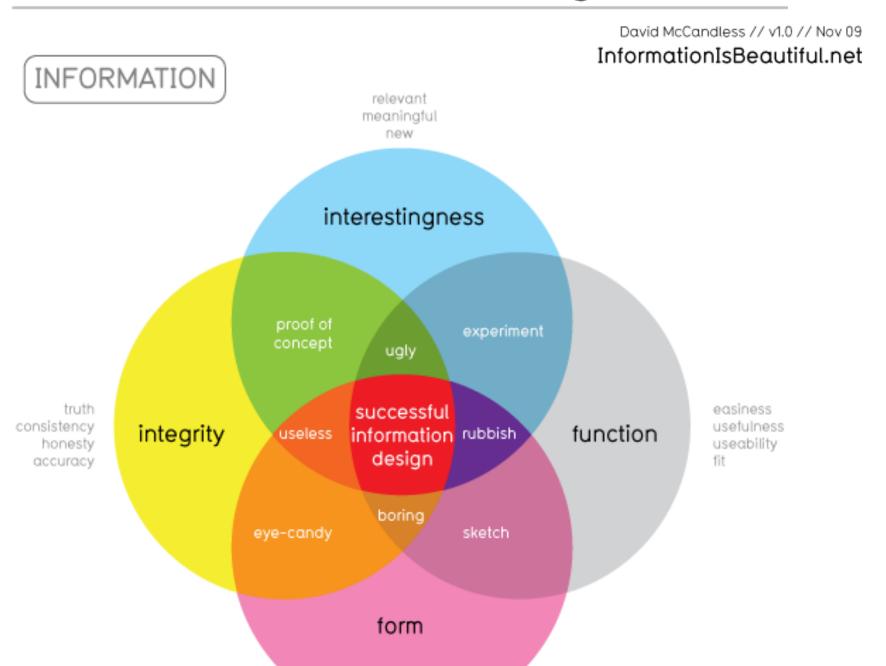




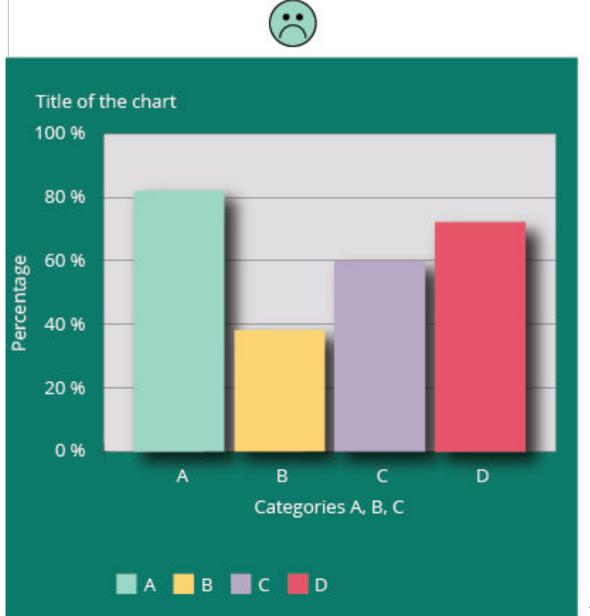




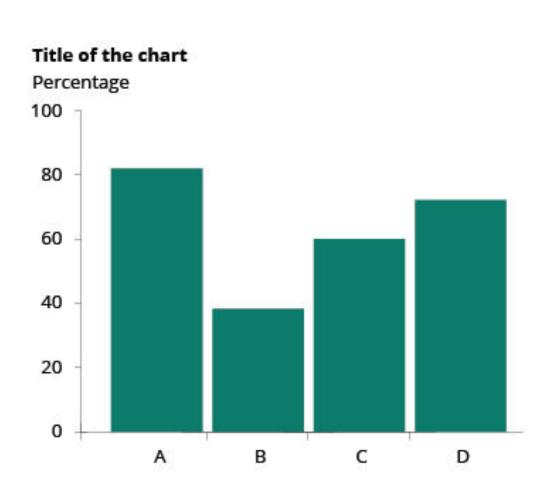
#### What Makes Good Information Design?



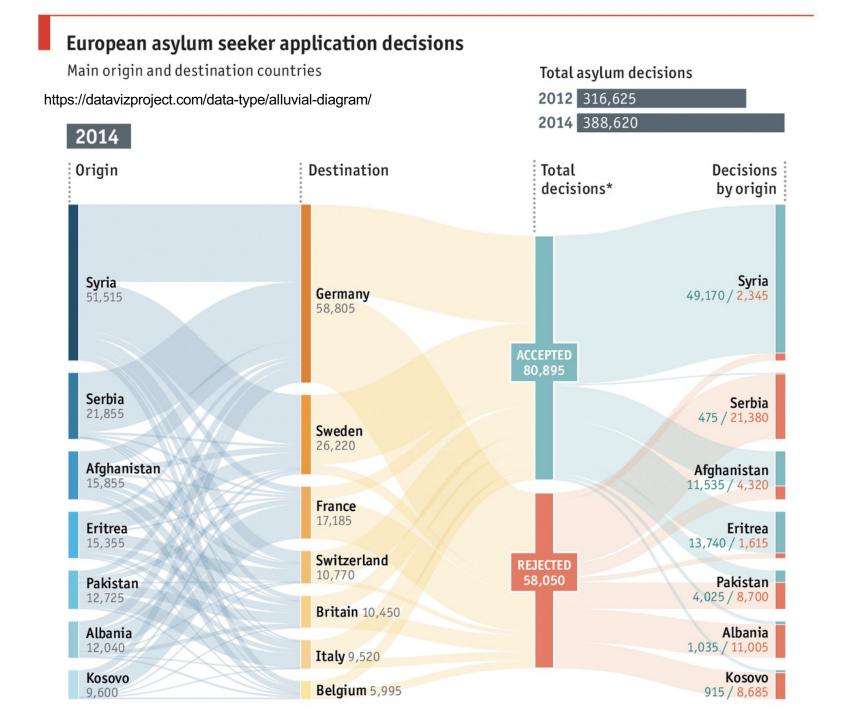
Elaboration







Elaboration



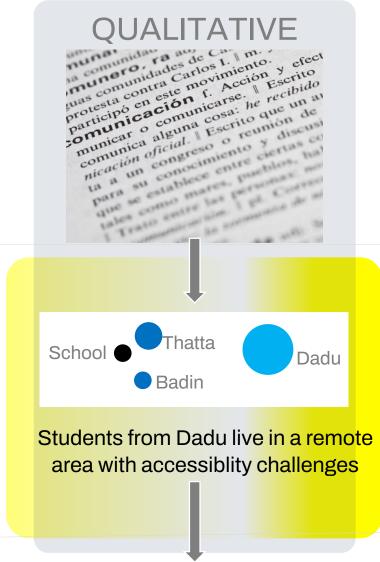
#### **Data or Information Visualization**

# DATA

#### INFORMATION



School performance in Dadu needs to improve



Dadu needs special actions to overcome the challenges

**KNOWLEDGE** 



Elaboration

#### Results

Indicator 3 = Learning and joy

Indicator 4 = # of compliments

Indicator 5 = % of engagement and feedback



#### Definition

"Graphical excellence is giving the viewer the greatest number of **ideas** in the shortest **time** with the least **ink** in the smallest **space**."

'The Visual Display of Quantitative Information', Edward Tufte.



#### **Good Dataviz**

# Remove anything that is removable

Each visual resource (color, lines) has a purpose



#### **Good Dataviz**

"Perfection is reached, not when there is nothing more to add, but when there is nothing left to remove.

Antoine de Saint-Exupery

#### **Format**

# Content

(+ Target audience

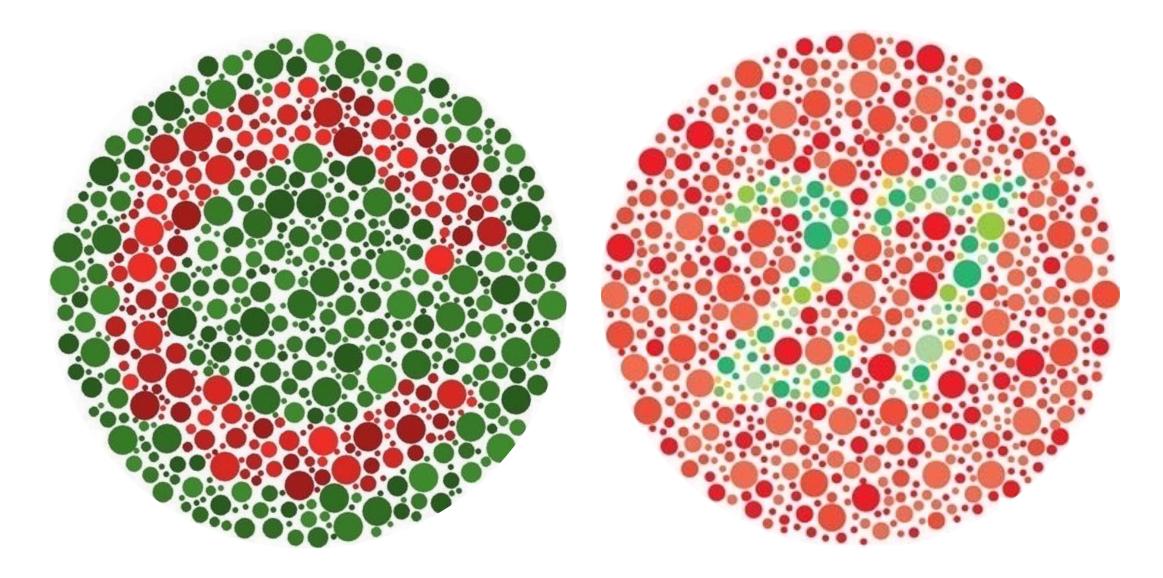
+ Purpose)

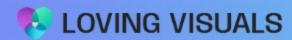
#### Limitations

- 1 Accessibility problems (visually impaired, color-blind, others)
- 2 Some people may not relate to it (types of intelligences)
- Alignment with your organization visual branding
- 4 It's subjective



#### Visual inclusiveness



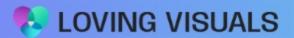


#### **COURSE:**

DATA
VISUALIZATION
FOR REPORTS
AND PRESENTATIONS

MODULE 1
INTRODUCTION





#### COURSE:

# DATA VISUALIZATION FOR REPORTS AND PRESENTATIONS

MODULE 1
INTRODUCTION

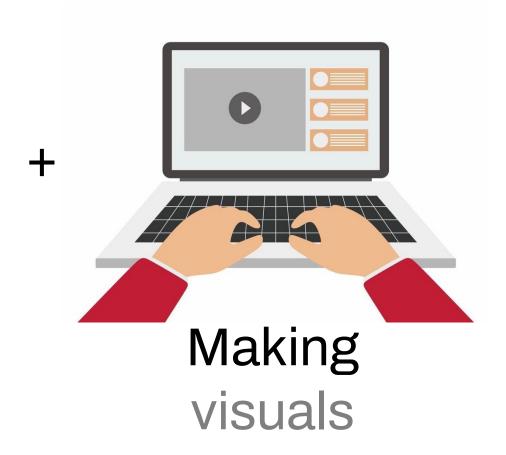
THE "FORMULA"



#### Dataviz formula

Data
Visualization



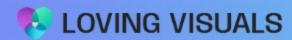


#### Objectives



#### To get acquainted with:

- ▼ The concept of Data Visualization
- ▼ The purposes of Data Visualization
- ▼ The basic principles of Data Visualization
- ▼ The limitations of Data Visualization



#### **COURSE:**

DATA
VISUALIZATION
FOR REPORTS
AND PRESENTATIONS

MODULE 1
INTRODUCTION

