

Exploratory Data Analysis

Types of data

Numerical data
or quantitative data

numerical values

Discrete
data

If you can count it,
then it is discrete:



Continuous
data

If you can measure it,
then it is continuous:

* length



* weight



* temperature



etc

Categorical data
or qualitative data

= categories

Nominal
data

If you can brand it,
then it is nominal:

Gender

- ☒ Female
- ☐ Male

Colour

- ☐ Blue
- ☒ Red
- ☐ Green
- ☐ Orange

Ordinal
data

If you can order or rank
it, then it is ordinal:

- ☐ Always
- ☐ Usually
- ☒ Sometimes
- ☐ Rarely
- ☐ Never

LegaC

DATA DISTRIBUTIONS

CATEGORICAL VARIABLES

- Data tables



- Bar charts



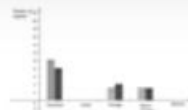
- Segmented bar charts



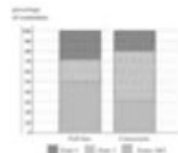
- Two-way frequency tables

Shrimp over the past year				
Age	adult	juvenile	unclassified	Total
under 10	50	10	0	60
over 10	30	10	0	40
Total	80	20	0	100

- Side-by-side bar charts



- Parallel segmented bar charts

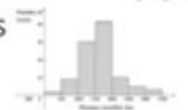
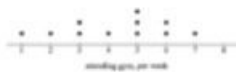


NUMERICAL VARIABLES

ONE numerical variable

TWO numerical variables

- Data tables
- Dot plots
- Stem plots
- Box plots
- Histograms



- Scatterplots





PORCENTAJES

50,66

% 49,07

