## Sept. 19

1) Jupyter server -> start program... -> new r studio.

~ Statistics

Descriptive <u>Statistics</u>

- Describing some population.

- All university students

- want make informe about a population using a sample

## population parameters.

notalogod : M mean.

p: population budoctou(

T: population Standard deviotion

d2: population variance

population: refer to all objects in a given set.

sample refers to a subset of

- A sample of randomly selected u of c students all objects in a given

X: sample mean sample p: sample proportion estartata

deviation. Sample stanolard somple variance

Random Variable: A variable with a set of outcomes, that have associated probabilities, and varies randomly.

# Numeric/Quantitothe

C.V.S

Ex: - # of 1s that appear when rolling 3 dice

- + of children Khaled saves

in a given ucek

# Categorial Qualitative

Namina

-No meaningful rankına system — colour.

- type

#### Ordinal

- Categorical variables that can be neaningfully ranked/ordered.

 $\leq x$ : -Race placement. - Likhart scales

- Things that involve preference.

## Discrete

- takes on a 'countable infinite' number of values.

applications Niko makes in a given wek.

of values. ex: - Height of children Kholcol SIVES.

# <u>Continuous</u>

- takes on a ' non-countable infinite number How do we gather data in a dataset

'I'dy Data': Refers to organizing data such that observations form rows, and random variables form columns.

Ex: Pokemon Darboset Variables.						
Observations		ottack	Hp	type	··· ]	• • •
	Pi kouhu					
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