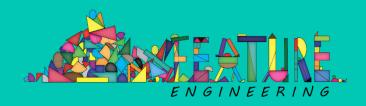
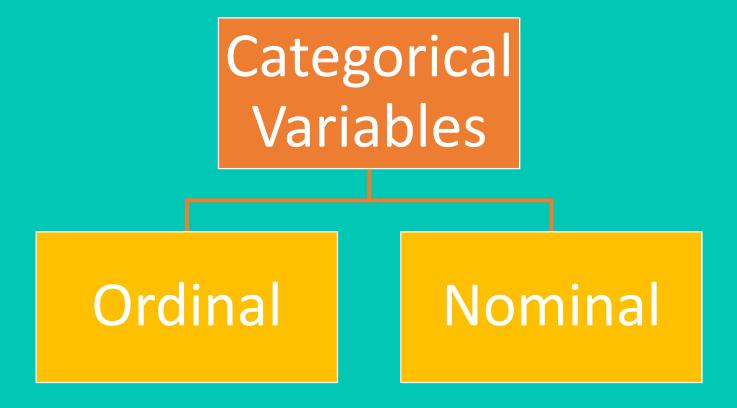


The values of a categorical variable are selected from a group of categories, also called labels. Examples:

- Marital status (married, single, ...)
- Intended use of loan (debt-consolidation, car purchase, ...)
- Mobile network provider (Vodafone, Orange, ...)
- Gender (male, female)







Ordinal variables

Categorical variables in which categories can be meaningfully ordered are called ordinal. Examples:

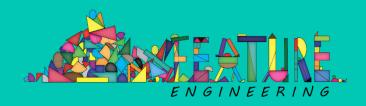
- Student's grade in an exam (A, B, C or Fail)
- Days of the week (Monday = 1 and Sunday = 7)
- Educational level, with the categories: Elementary school, High school, College graduate and PhD ranked from 1 to 4



Nominal variables

No intrinsic order of the labels. Examples:

- Country of birth (Argentina, England, Germany)
- Postcode
- Vehicle make (Citroen, Peugeot, ...)



Special cases

- Categorical variables where categories are encoded as numbers (e.g. gender may be coded as 0 for males and 1 for females)
- Id variables: number that uniquely identifies an observation