MATHS 7107
Data Taming
Tutorial 1

Stephen Crotty

School of Mathematical Sciences, University of Adelaide

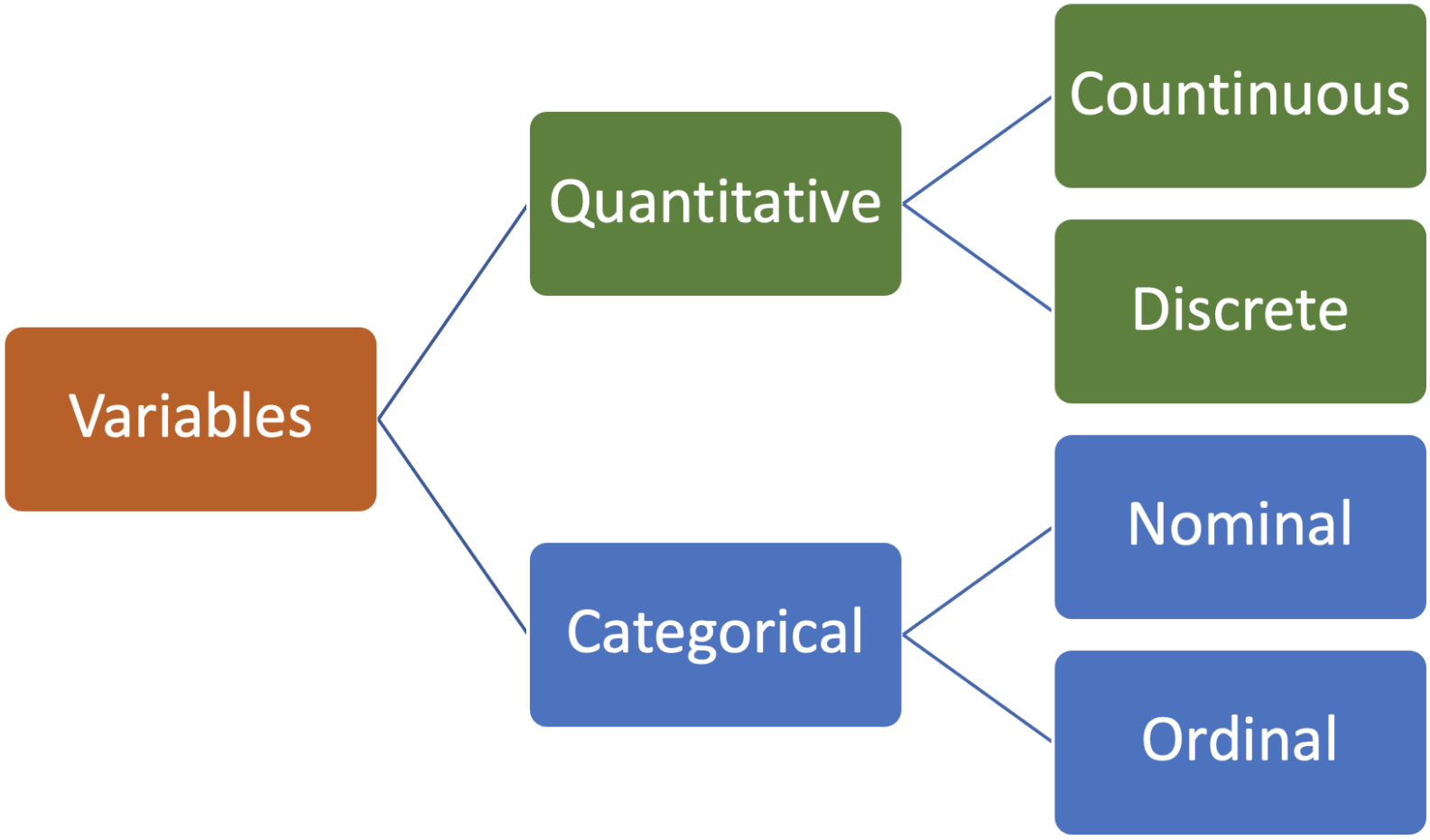
Trimester 1 2023

A data set

Table 1: A snapshot of mtcars data set

	mpg	hp	wt	vs	am
Mazda RX4	21.0	110	2.620	V-shaped	manual
Mazda RX4 Wag	21.0	110	2.875	V-shaped	manual
Datsun 710	22.8	93	2.320	straight	manual
Hornet 4 Drive	21.4	110	3.215	straight	automatic
Hornet Sportabout	18.7	175	3.440	V-shaped	automatic
Valiant	18.1	105	3.460	straight	automatic
Duster 360	14.3	245	3.570	V-shaped	automatic
Merc 240D	24.4	62	3.190	straight	automatic
Merc 230	22.8	95	3.150	straight	automatic
Merc 280	19.2	123	3.440	straight	automatic
Merc 280C	17.8	123	3.440	straight	automatic
Merc 450SE	16.4	180	4.070	V-shaped	automatic

Types of variables



Quiz 1: Types of variables

- Go to mentimeter

Introduction to R

Open R studio

Create a data frame

student_name	age	height	weight
Sam	20	170	45.2
John	26	162	50.3
Jack	27	172	52.4

Create a data frame

- Create a dataframe named “mytibble” for the above data
- Select the age column of the dataframe
- Add 1 kg for all the weights in the dataframe
- Add the bmi variable in to your tibble ($bmi = kg/m^2$)
- Select the 3rd entry of the weight coloumn
- Select the 3rd row of the dataframe
- Select the entry in the 3rd row 2nd coloumn of the data frame
- Change the entry in the 3rd row 2nd coloumn of the data frame to 30