1.2) Data Type All of statistics is built on data. We need to Know which type we are dealing with as there are different proceedures for different types of data. Def: Variable - this is a place holder for any typedata. Ex score on an exam Ex Gender, age, ... Def: Qualitative Data (aka, categorical)
This data allows subjects to be categorized Student's gender Student's hames: (A-L, M-t), major A can's Color (Det: | Quantitative Data: This fells us howmuch This type of data can be represented a a location on a number line.

A person's age: A car's frel economy:

Assign a data type to each facet of the table below: CLASS GRADE Student SAT MAJOR ID 920 4.0 Psych 123 Emily -7 Z.O Education 750 456 Julie B - 3.0 820 Business Greg 789 720 Mateo I.T. 812 - 3.0 950 Musi c Sarah 934 → 3,0 Businers Andres 820 110 Qualitation Quantitative Qualitative Qualitztue Quasi-. Quantitative Dot Plot Distribution 4.0 3.0

We can further break down these two data (3)
ASCIC MARCONTS
· Qualitztive data can be broken down into
1
(i) Ordinal Data: data can be ordered
Grades: A, B, C, D, F
Tax Bracket: low, mid, high tax
Drinksize: S, M, L, XL
(ii) Nominal Data: No natural ordering
State of Residence: CA, AK, AR, UT, TX
Gender:
Car Colon:
"Quiz" which of the Qualitative (catesonical) data
i) ordinal vs Nominal
1. Names of streets: nominal
2. movie Ralings: G,PGPG-13,R,NC-17
3. Olympic Medal S: G,S,B ordinal

•	Quantitative Data can be broken down into
	two categories
	(i) Discreet Data: Numbers that come is

hunks, or quanta

Numbers of eggs Checkers the Chicken

Layed last night

Ext Age (if in integer years)

(ii) Continuous Data: This data can be refined further and further in resolution Distance 8m, 8.13m, 8.13579m)

EXT Gallons of milk (liters): 3.81

"autz" which quantitative data is discreet?

1. Number of female olympians on the USteam

—> Discreet

2. Water consumed by a houshold is I month -> Continuous

3. Number of floors in a hotel: Discreet

4. Body Tenperature: Intege Readont: Discreet Analoge Readout: Continuous