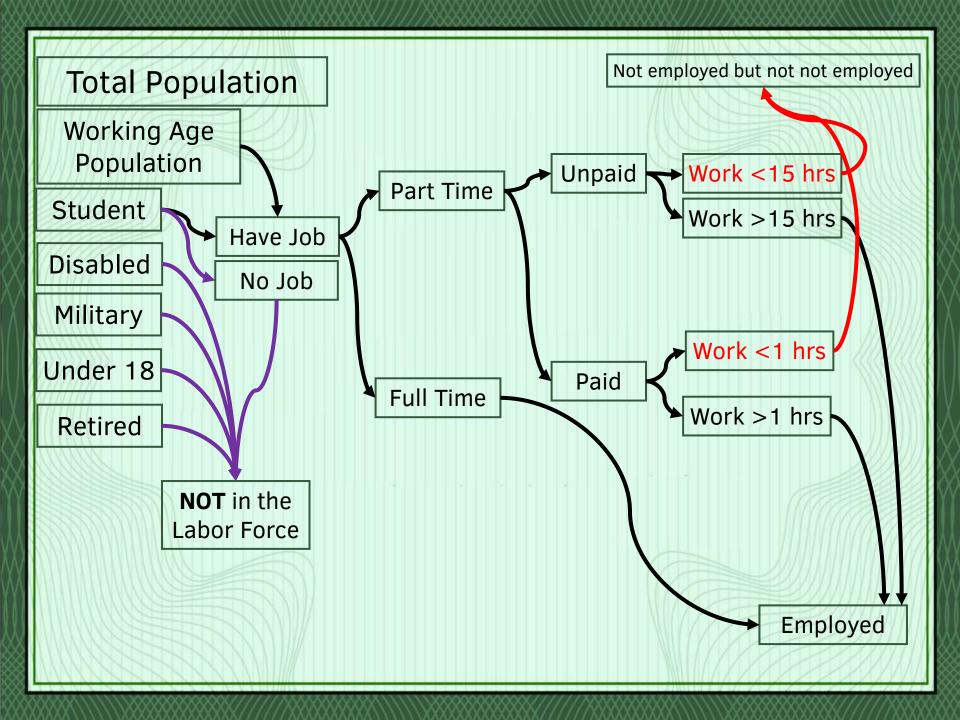


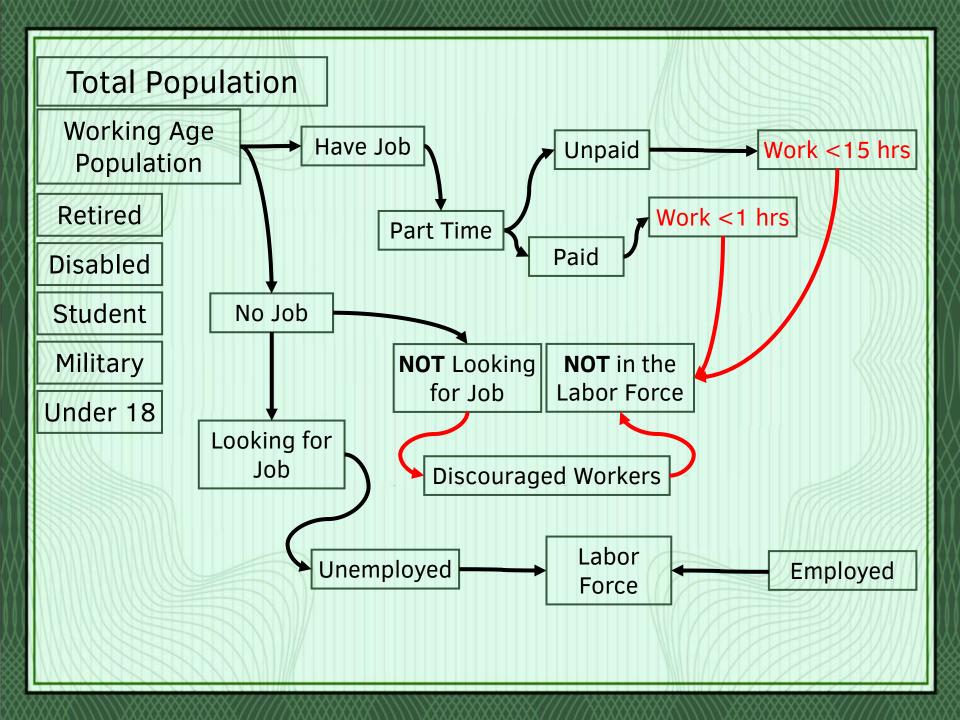
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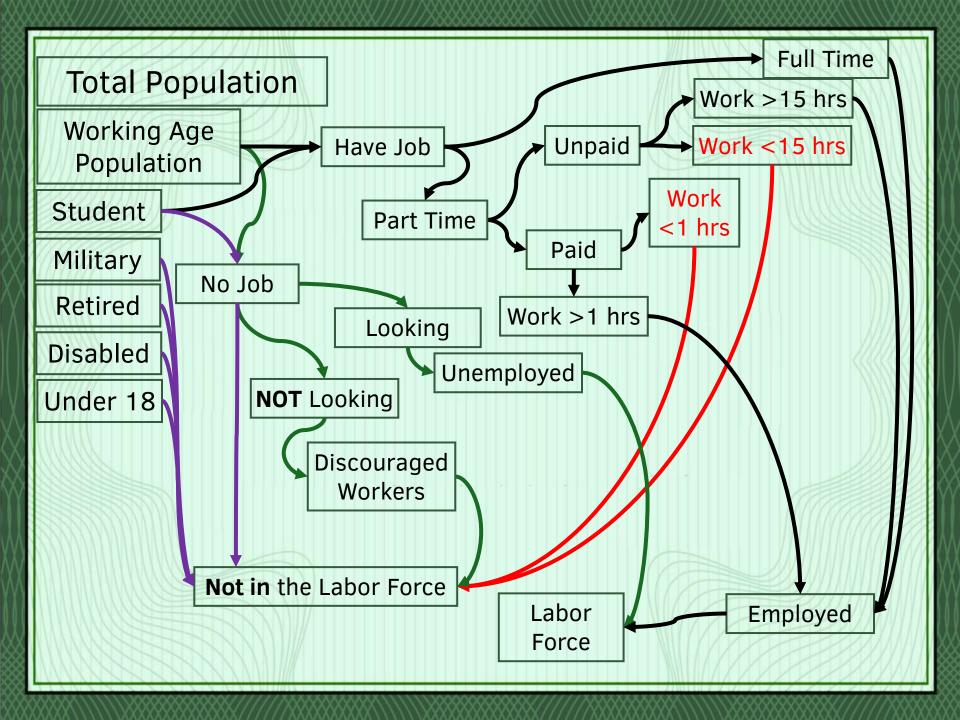
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- ► A measure of how many people needs jobs.
- Sample of everyone 16 and older, employment status, monthly

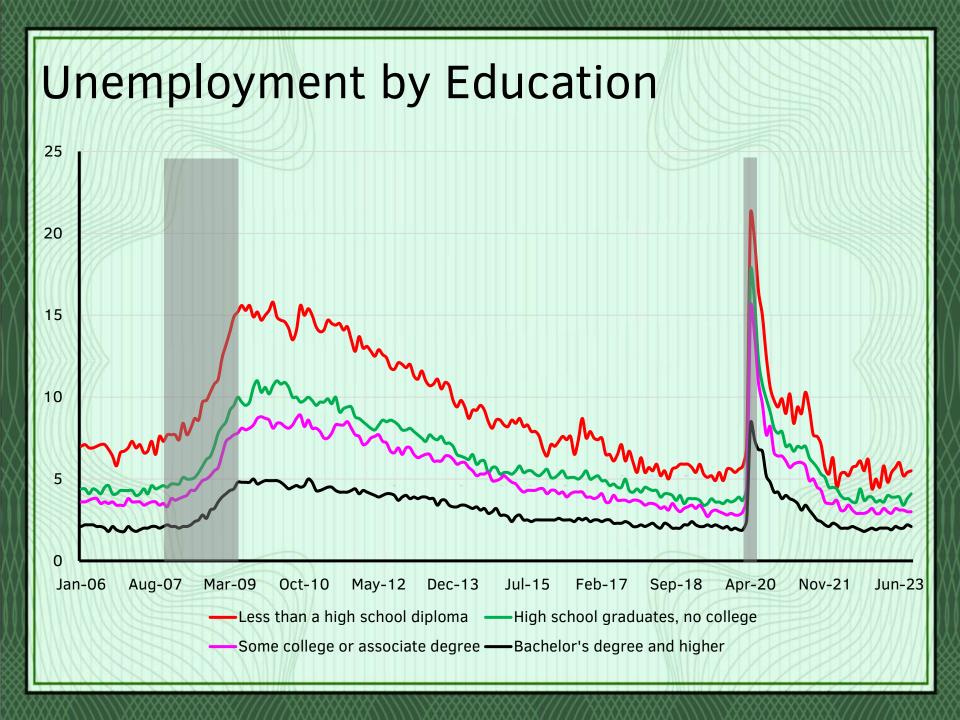


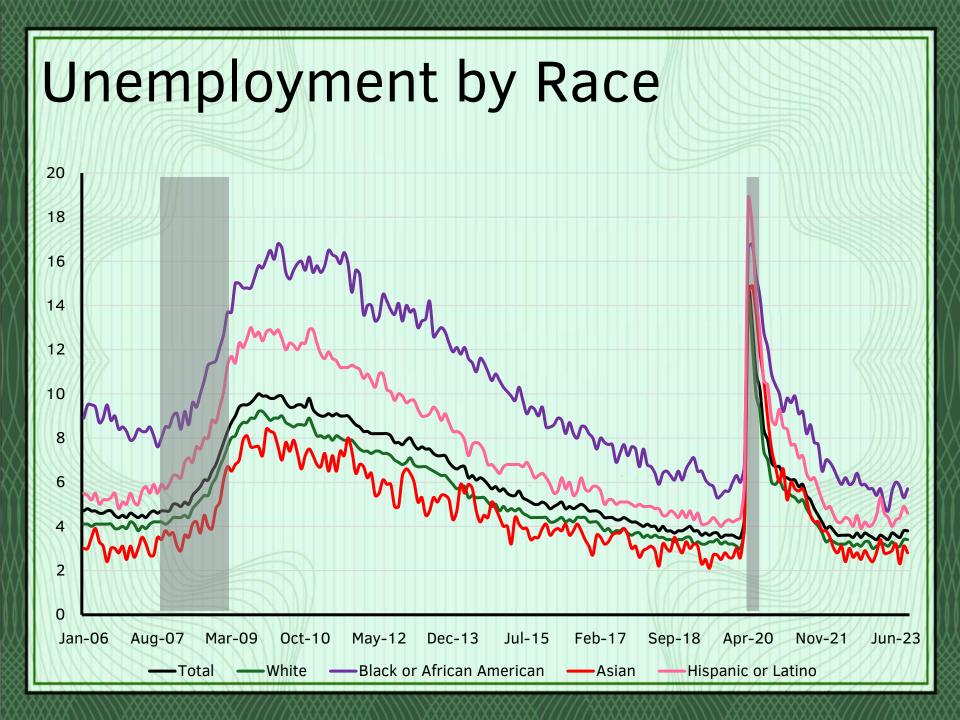


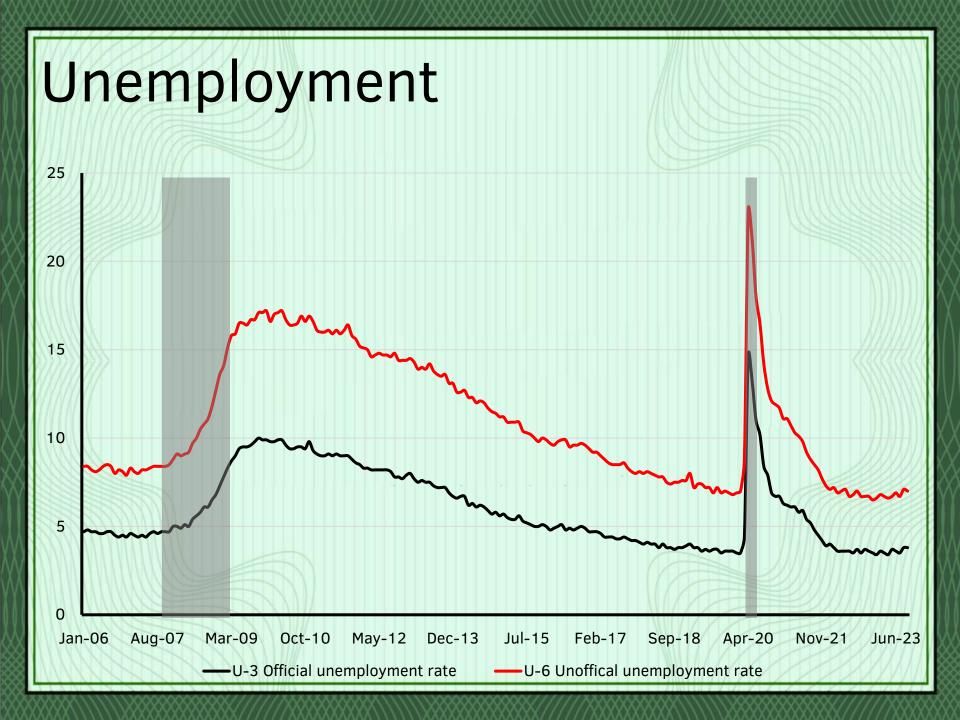


Formulas

Term	Abbr.
Employed	= E
Unemployed	= U
Population	= POP
Working Age Population	= W _{pop}
Labor Force	= LF = U + E
Term	Equation
Unemployment Rate	$= \frac{U}{LF} = \frac{\text{Unemployed}}{\text{Labor Force}}$
LF Participation rate	$= \frac{LF}{W_{POP}} = \frac{\text{Labor Force}}{\text{Working Age Population}}$
Employment Pop Ratio	$= \frac{E}{W_{POP}} = \frac{\text{Employed}}{\text{Working Age Population}}$







Types of Unemployment

- ▶ Frictional
 - ► In between jobs
- ► Structural
 - ▶ Obsolete job
- ▶ Cyclical
 - **▶** Recession
 - ► Bad Economy
- Natural rate (Full employment)
 - ► Frictional + Structural

Example Problem.

In the country of Illustratopia, there are 543 m. employed. The unemployment rate is 7.65%, while the labor force participation rate is 70.6%. How many are in the working age population, unemployed, and the labor force?

Unemployment Rate =
$$\frac{U}{LF}$$

 $.0765 = \frac{U}{U + 543}$
 $U + 543 \cdot 0.0765 = U$
 $0.0765 \cdot U + 41.54 = U$
 $41.54 = 1U - 0.0765 \cdot U$
 $\frac{41.54}{0.9235} = U$
 $U = 44.98$

$$LF = 543 + 44.98 = 584.98$$

$$LF Partipation rate = \frac{LF}{W_{POP}}$$

$$70.6\% = \frac{584.98}{W_{POP}}$$

$$W_{POP} = \frac{584.98}{70.6\%}$$

$$W_{POP} = 828.58$$

Problems with unemployment

- ► Discouraged workers are still unemployed.
- ► Students are weirdly classified.
- ► Those underemployed are not considered.
 - Underemployed being working a part time job when you want a full time one.

Jack lost his job 6 months ago, and he's been actively looking for a job, he is classified as

- A) unemployed
- B) out of labor force
- C) a discouraged worker

Ruby is a college student, she lost her job 3 weeks ago, but she's been actively looking for a job, she's is classified as

- A) unemployed
- B) out of labor force
- C) a discouraged worker