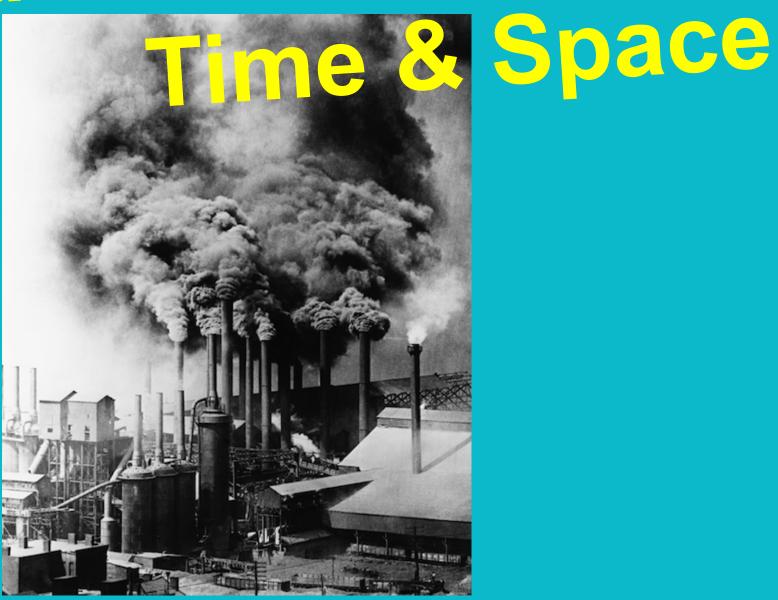
# Industrializing



Economic activity concerned with the processing of raw materials and manufacture of goods in factories.

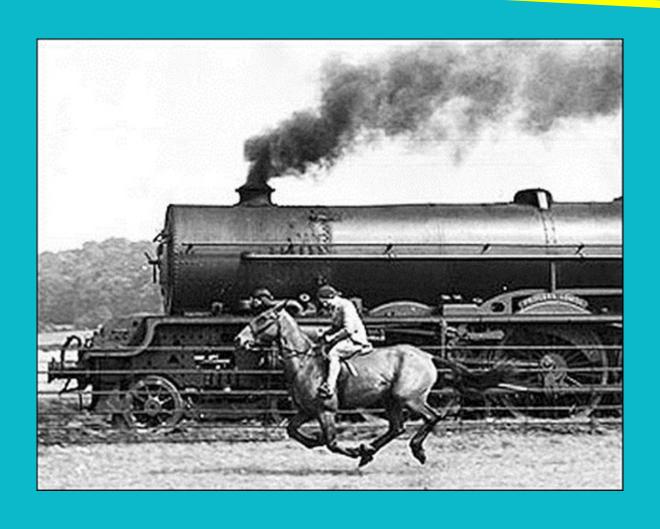
Non-subsistence labor.

Production for commercial purposes.

# Mutations of Space & Time (like agriculture)

# Distances become shorter!

Time moves faster!



### Industrial Revolution

- Foremost in England



### Industrial Revolution

- Foremost in England
- Begins circa 1781 (Steam Engine)

- Completed circa 1848 (political revolutions)



### Why England?



### Why England?



### Why England?



### As opposed to Germany



### Coal and Industry...

Fossil fuel = prerequisite for industrialization

Coal may last another 250 years

Global consumption of fossil fuels has grown a thousand fold since the 19<sup>th</sup> century.

### Coal and Industry...

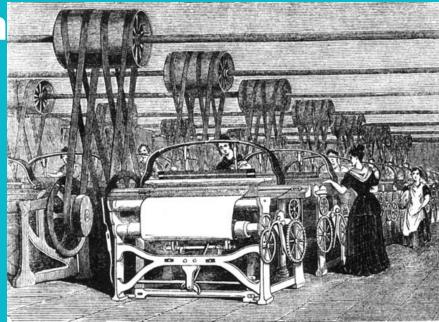
Annual growth rate of 3.5% per year (remember this number!).

Agrarian civilizations lasted 5,000 years, fossil civilization will not.

Ultimately we can only be in a transitional society.

### Industrial Revolution

- Automated production
- Machine power
- Textile industry is first to be industrialized.
- Marks onset of unseen economic growth.



### **Proto-Industrial**

- Process of rural industrialization
- Pastoral farming combined with cottage industries
- Commercial farming and fishing
- Marginal and peripheral areas?
- Money payments and currency valuations.

### Gufuskalar!



### Gufuskalar!



# Gufuskalar!



- Cod caught and processed for international markets in large numbers
- Seasonal occupation
- Lucrative

### Industrial REVOLUTION

Takes place in urban areas...

But most of the people live in rural areas...

...Until



# The Enclosures

6 million acres of land taken between 1725 – 1825.



# The Enclosures

"From 17th to 19th centuries millions of acres of open fields on which rural workers had commoner's rights for grazing and growing were appropriated and enclosed in long series of parliamentary acts forcing the poor off the land."

#### Commons:

Cultural and natural resources available to all members of a society, including air, water, wood, dirt, animals, metals, and fuels.

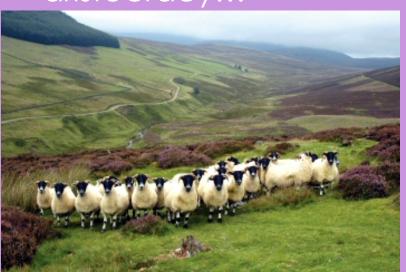


### Why take the lands?

Wages were rising and rents were lowering...

The wealthy lived in constant fear of the poor uprising...

Peasant wars and lack of population had scared aristocracy...



Attack launched against all forms of collective sociality and, including farming, dances, festivals...

Aristocrats said that the Commons land was not being used to its fullest potential.

Greater agricultural yield could be produced

if peasants were kicked off the land.



Peasants were being "inefficient"

Aristocrats said that the Commons land was not being used to its fullest potential.

Greater agricultural yield could be produced

if peasants were kicked off the land.

### Is this true?

Yes...

Peasants didn't maximize yield. They made enough to feed themselves and their families...

Peasants were being "inefficient"

After the enclosures landowners were able to increase the amount of food they grew.

But this actually INCREASED famine and hunger, because the food was sold.



A key to the modern world:
Things are not made to be used.
They are made to be sold.

### **Step One:**

Independent peasants/artisans sell their industrial products, produced from their own raw materials, using their own machinery. Producers control the means of production.

### **Step Two:**

Merchant capitalists take over as middlemen in the provision of raw materials and machines and marketing, paying wages, thus separating the workers (producers) from the means of production.

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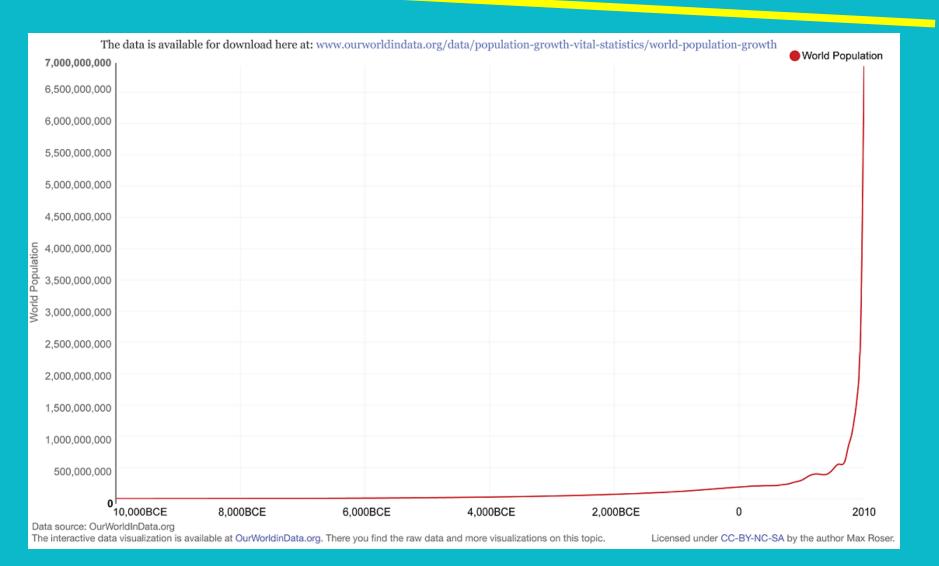
### Step ıwo:

Merchant capitalists take over as middlemen in the provision of raw materials and machines and marketing, paying wages, thus separating the workers (producers) from the means of production.

Proto-Industrialization leads to less seasonal work...

Leads to earlier marriages...

Leads to increased birth rate?



Proto-Industrialization leads less seasonal work...

Lead One theory...

Leads to increased birth rate?

Moving away from task-oriented time (planting, harvesting, mining)...

...Toward abstract, standardized, quantified time (minutes, hours, seconds)

Moving away from task-oriented time (planting, harvesting, mining)...

Most non-industrialized populations today still observe task-oriented time

Industrialization creates new tensions between town & country (urban & rural).

Industrialization creates the proletarian class.



### **Proletariat:**

- -Workers or working-class people, regarded collectively.
- -Only possession is labor-power
- -Only value is labor-time
- -No ownership
- -Alienated from their production
- -Cheap labor

### **Proletariat:**

- reg Is this why there are on the Planet?

  -On This why there are on the planet?
- -Alie
- -Cheap labor

**Proletariat:** 

-Worker

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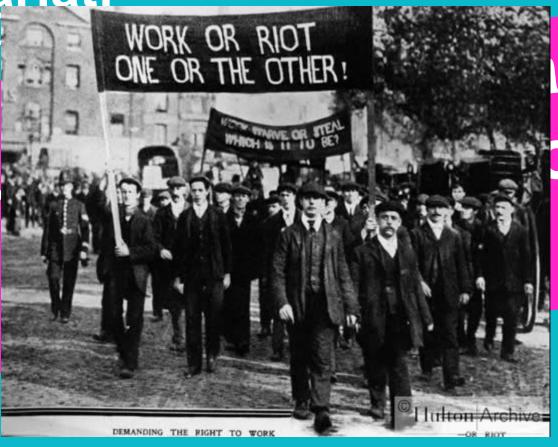
-On

-On

-No

-Alie

-Cheap



re on

Idea that individuals acting according to their own rational self-interest will behave in detrimentally toward the common good.

Commonly shared resources will be depleted for individual gain at the cost of the collective good



Idea that individuals acting according to their own rational self-interest will.

The opposite of Adam Smith's "invisible hand" in capitalism?

Commonly shared resources will be depleted for individual gain at the cost of the collective good

Mývatn!



Mývatn!



### Mývatn!

- Nearly 1,000 years of maintaining fruitful use of commons resources.
- Socially regulated egg poaching.
- No private ownership or government regulation.

