3D Printing



RJ 12: Wednesday 5pm

Topic: Wednesday 11:59pm

Bookkeeping



- Assignments posted
- RJs due at midnight the day before class
- Next RJ due before class at 5pm
- ◆ Final project:
 - First stab at topic due Wednesday at 9
 - Seriously consider finding a partner!
 - Piazza thread up now

Positives



◆ For individuals:

- Make what you want!
 - Obtain otherwise unavailable items
 - Minimize waste
- ◆ For companies:
 - Fast, inexpensive prototyping
 - Small-scale production
- For humanity
 - Printed organs



Negatives (for whom?)



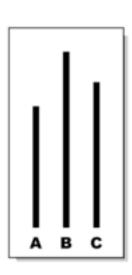
◆ Intellectual property of things

- Current patent law depends on limited manufacturing
- ◆ Toys, etc. can be made at home
- Other things that people have worried about?
 - ◆ The printing press (nope), copiers (nope)
 - Shareable music, video files (yes)
- ◆ High cost of entry
- Standards failures
- Artisanship vs. Industrial Revolution

Asch Conformity Experiments

- Look at card 1
- ◆ Which line on card 2 matches card 1?
- What if everyone disagrees?
 - ◆ Almost everyone (70%-90% will give the wrong answer if everyone else does.
 - ◆ It only takes a few other people to change that
- Why do people conform?
 - Self-doubt: they think they must be wrong
 - Conformity: they don't wish to be "peculiar"





Dangerous Printouts



- Guns
- Knives
- ◆ Food-unsafe items
- ◆ Car parts?
- Badly-made prosthetics? Kidneys?

Discussion



- Should 3D printing be regulated?
- ◆ How? Who should be controlled? What should?
- Which of the items on your list call for regulation?
- What kind? By whom?