



3D printing

The replication culture

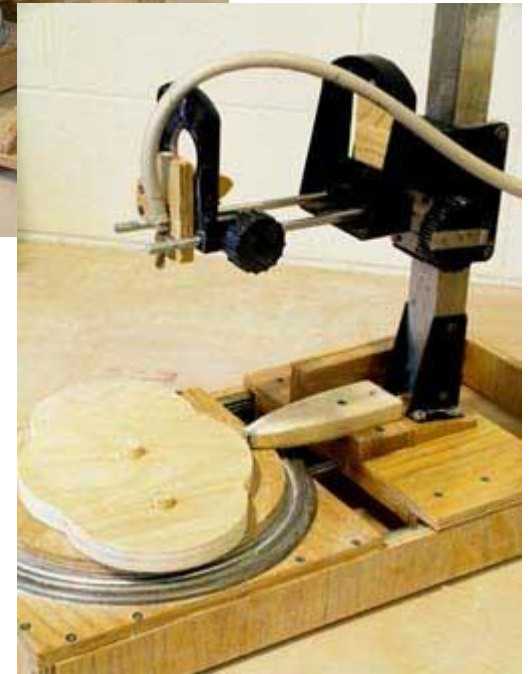
A brief history

- Additive manufacturing



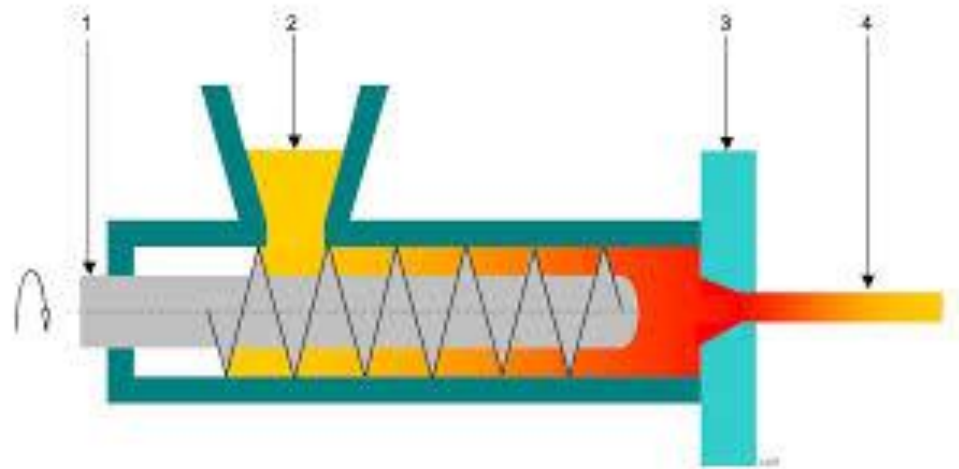
David Herrold

- The industrial “revolution”



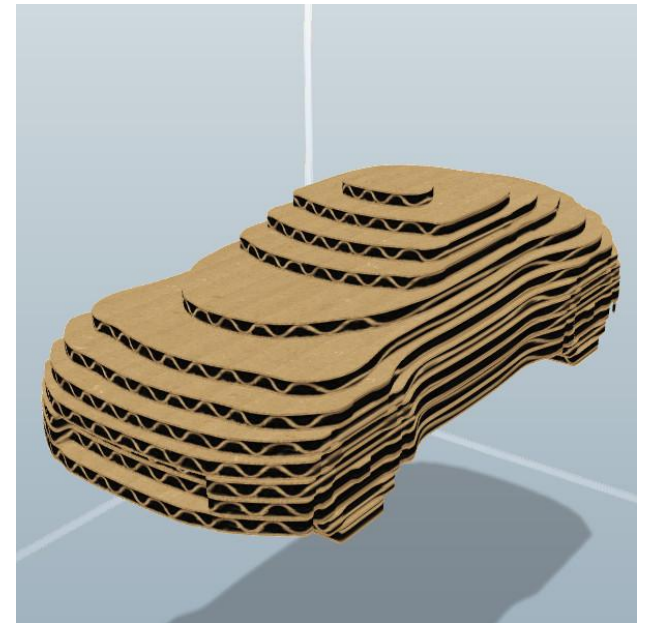
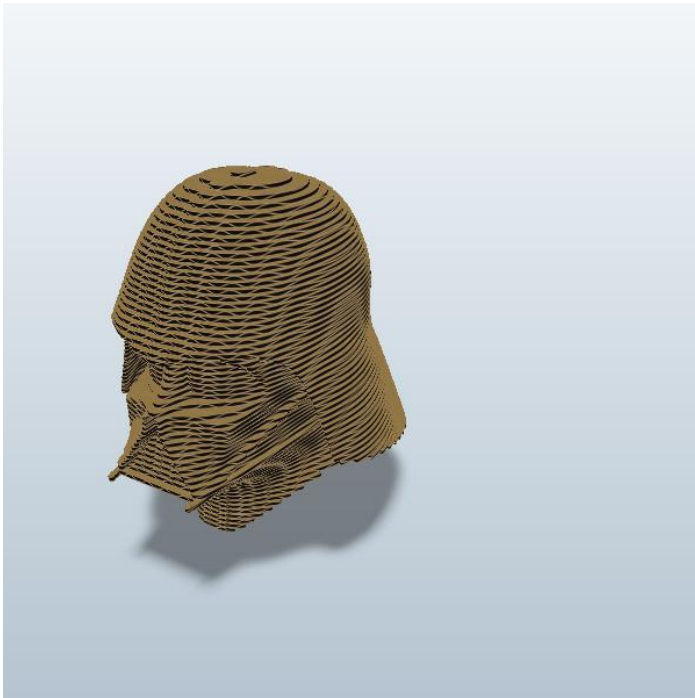
Alternative technologies

- Extrusion
- Granular
- Laminated
- Light polymerised

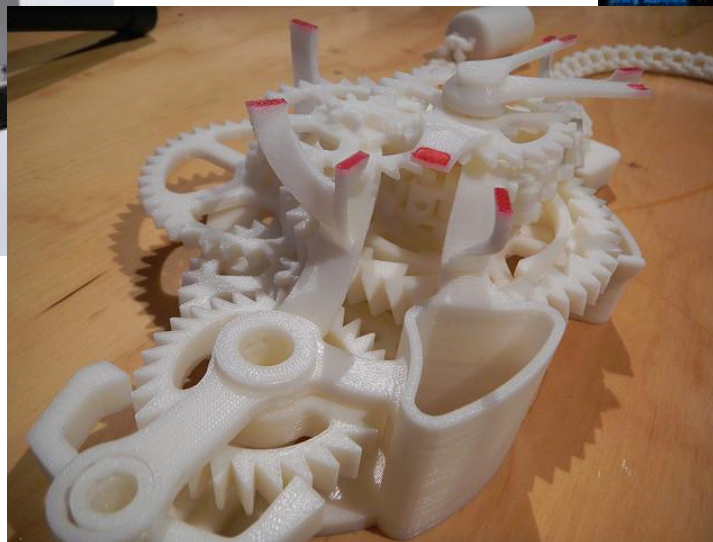


How does a filament printer work?

- Filament gets through a “hot end” where it melts.
- Machine code+Slicer



Industrial printing



Medical research



Art and Design



Bloom Table
Lamp;
Patrick Jouin.



Dita's Gown;
Michael Schmidt Studios and
Shapeways.

More Art

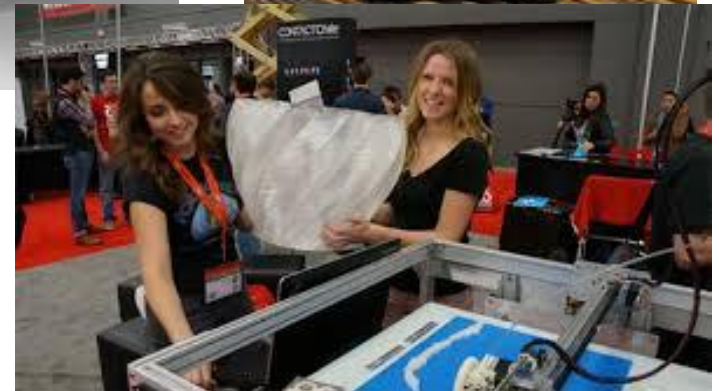
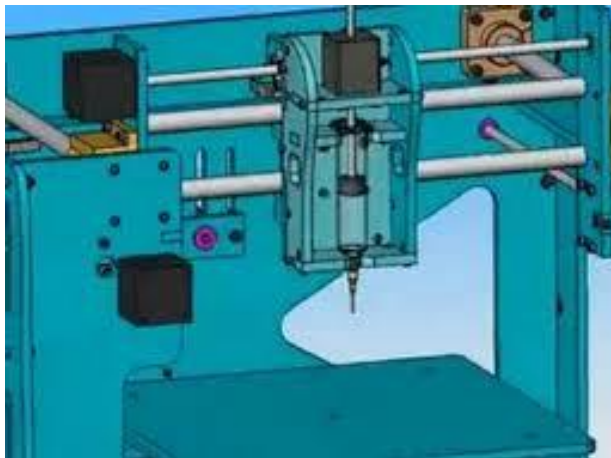
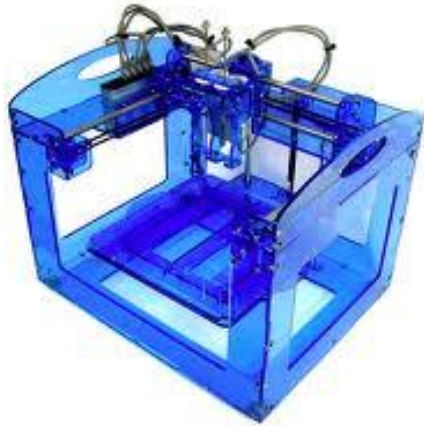


Neri
Oxman
MIT



Anthony
Rousel

Defining the identity of personal printers



Personal printers

- DIY culture and makers
- Why personal 3D printers?
- Distribution channels
- Online communities, Thingiverse and Shapeways or 123D...

The good, the bad and the ugly

- It offers a great opportunity for remote locations
- Requires new skills
- Materials are not really ecological (Although this might change with time)

What lays beyond?

- RepRap Project
- Fab@Home
- Mass customization

