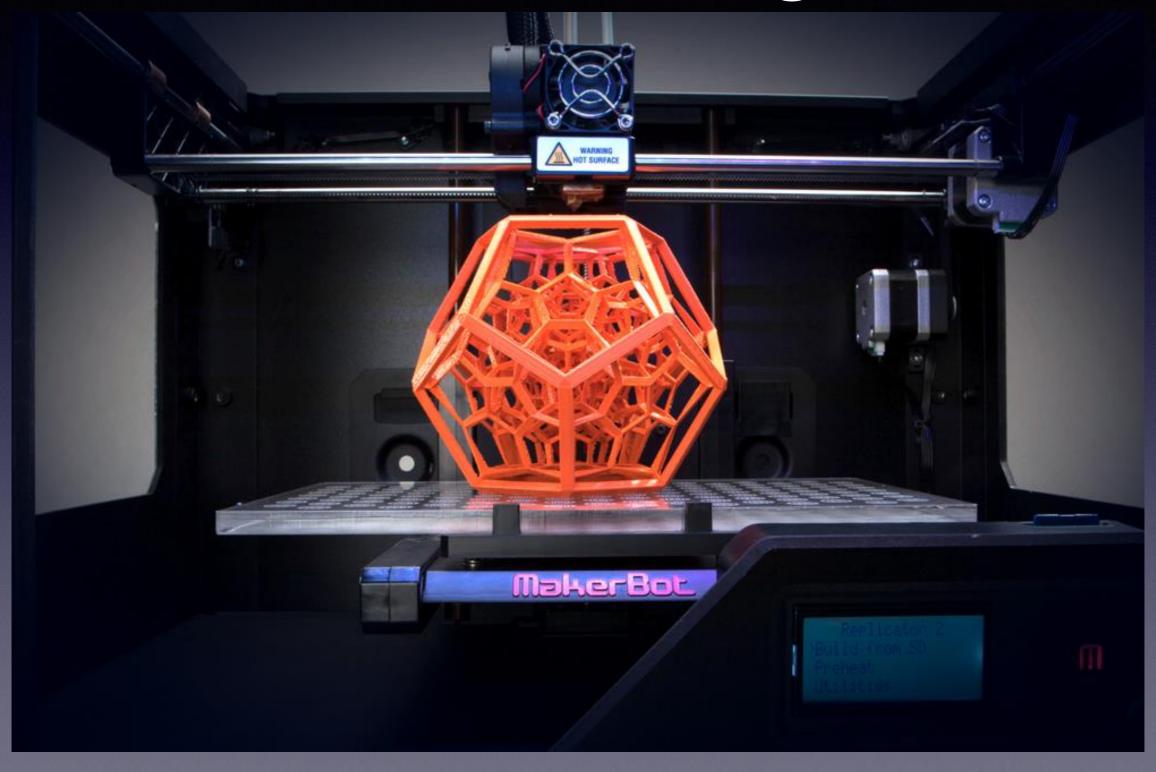
3D Printing



3D Printing

The process of making three dimensional solid objects from a digital file.

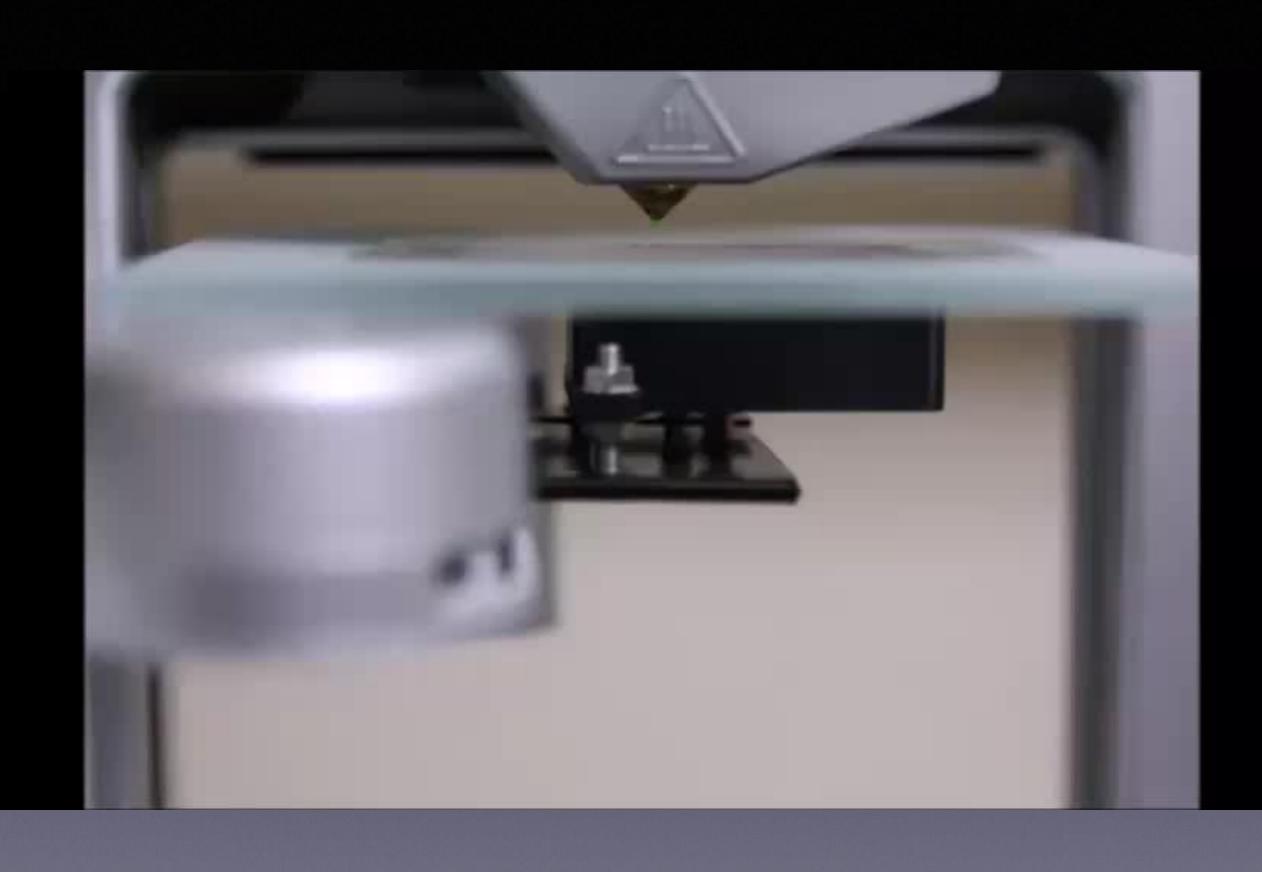
The object is created by using an additive process, laying down successive layers of material until the entire object is created.

Cube 3D Printer



Fused Deposition Modeling:

Uses high temperatures to melt plastic then applies it layer by layer to create a 3D object. The plastic solidifies upon impact.



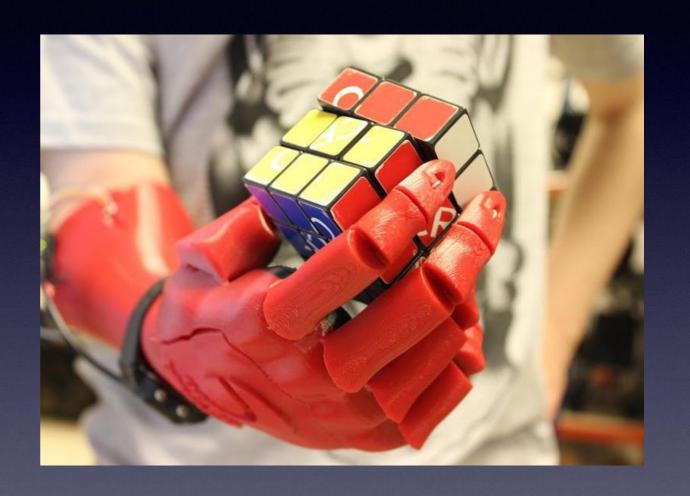
Printable Materials

- Plastics
- Metals
- Ceramics
- Paper
- Bio Materials
- Food
- Other

Today's Applications

Prosthetics

3D printing makes them more affordable than ever, around \$1,500 as compared to \$45,000-\$90,000 before.



Today's Applications

Houses

In China, a 3D printer was used to print 10 single-story homes within 24 hours.





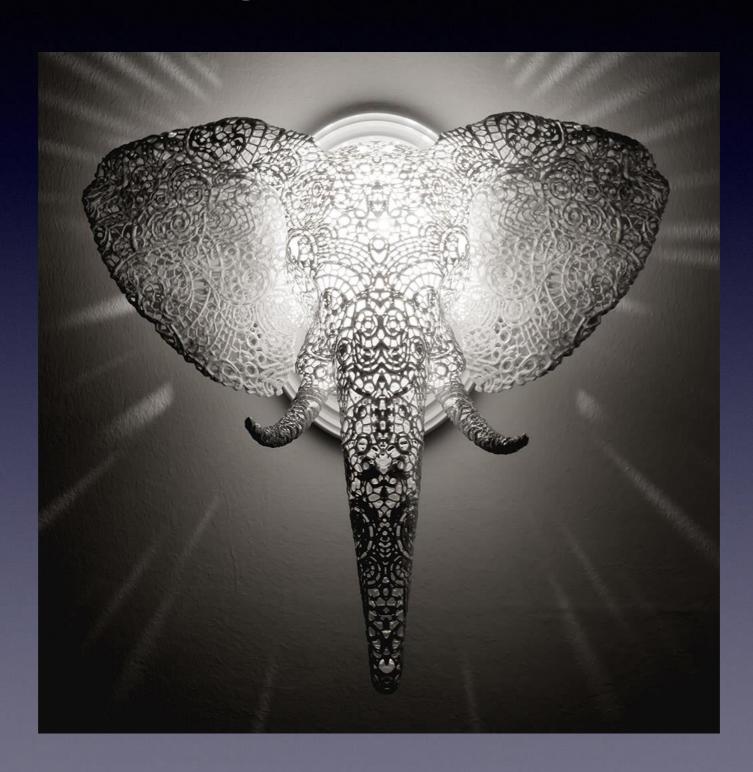
Today's Applications

Bioprinting

In 2013, Chinese scientists began printing ears, livers and kidneys with living tissue.



3D Printing in the Art World



Recreating Classics





Valeriya Promokhova, 7 Davids Project: in Flowers

Rob and Nick Carter, Replica of Vincent van Gogh's Sunflowers

Michaelangeo's *David* reworked as a 3D print

van Gogh's Sunflowers made into a 3D print

3D Printed Wearable Instruments



3D Printed Stop-Motion Animation

"Bear on Stairs"

Original Work

Shane Hope, Public Panopticon Powder

Printed out various textured reliefs and painted to unify them as one piece.

