

3D Printing

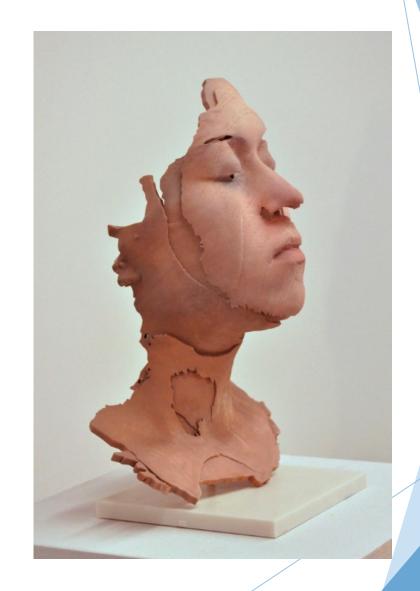
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Applications for 3D-Printing

- ➤ 3D-Printing technology, also known as additive manufacturing, has a surprising amount of applications
- Such applications include:
 - ► Art
 - ► Fashion
 - Science
 - ► And many more

Art

- ▶ 3D-Printing as an art form is also becoming very popular
- ▶ Due to the dynamic nature of 3D-printing technology, as well as the plethora of materials available to be printed with, artists are finding all kinds of unique applications for the technology



Fashion

► Fashion is yet another area in which artists and designers are pushing the limits to create some very interesting pieces





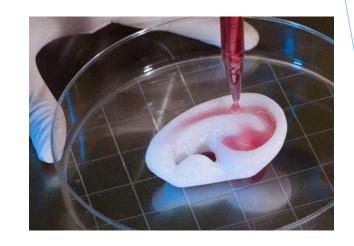
Science

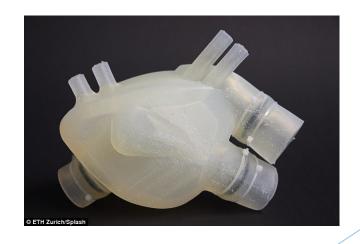
- Science is just one of many areas where 3D-printing is making tremendous strides
- Among the many applications of 3D-Printing in science are the printing of artificial organs and prosthetics



Artificial Organs

- Unsurprisingly, the main purpose of this area is to create artificial organs for transplant surgeries
- ► Although research is still being conducted, hollow structures such as the bladder, as well as vascular structures such as urine tubes have already reached clinical implementation





Prosthetics

- Traditionally, prosthetic limbs are extremely expensive to manufacture
- ➤ With advances in 3D-printing, however, prosthetic limbs can be manufactured quickly and cheaply





More in 3D-Printing



https://www.youtube.com/watch?v=FSu19nz7NlE

Sources and More Information

- Art
 - <u>https://www.shapeways.com/blog/archives/1106-Sophie-Kahns-3D-Printed-Sculpture.html</u>
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 - https://3dprintingindustry.com/news/simone-leonelli-blurred-boundaries-art-fashion-3d-printing-121440/
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 - https://en.wikipedia.org/wiki/Organ_printing
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- More
 - https://www.youtube.com/watch?v=FSu19nz7NlE