Building Stuff with Clojure & 3D Printing



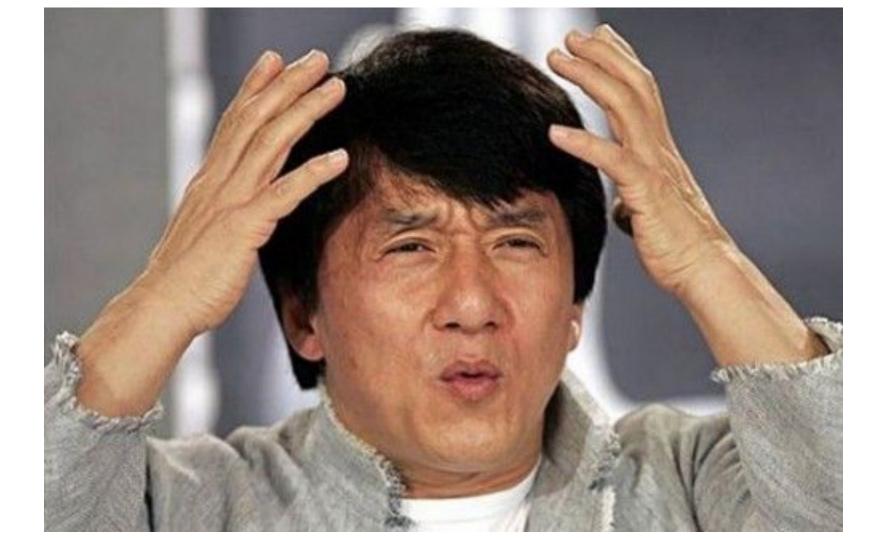


Repairability Score



Repairability 1 out of 10 (10 is easiest to repair)



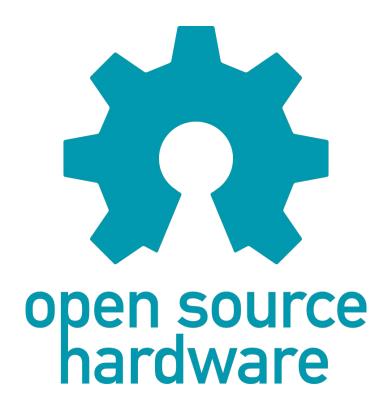












why Clojure?

run anywhere, anyhow

collaboration

composability

functional modeling



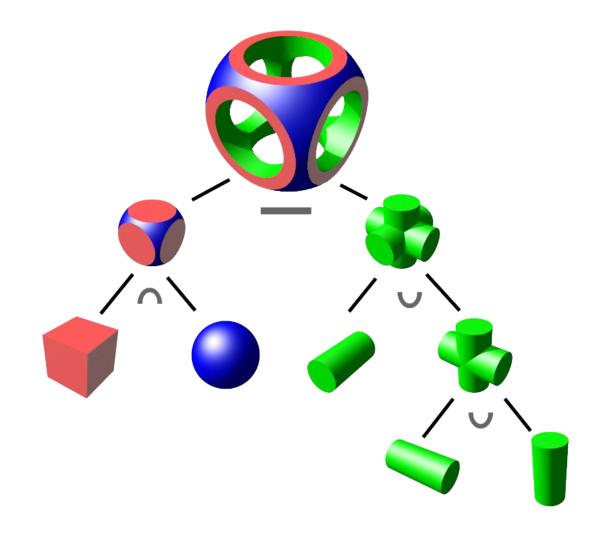
FULL CALLONS 3D Mode #53

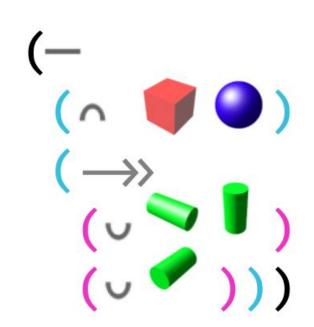
Polymesh

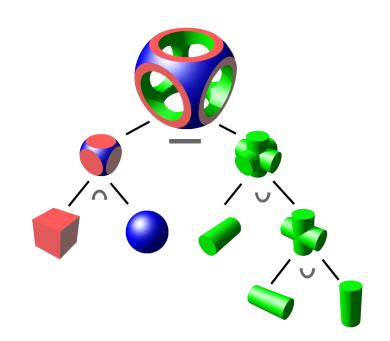
Constructive Solid Geometry

Bezier curves/patches

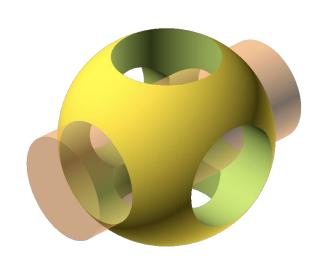
NURBS surfaces



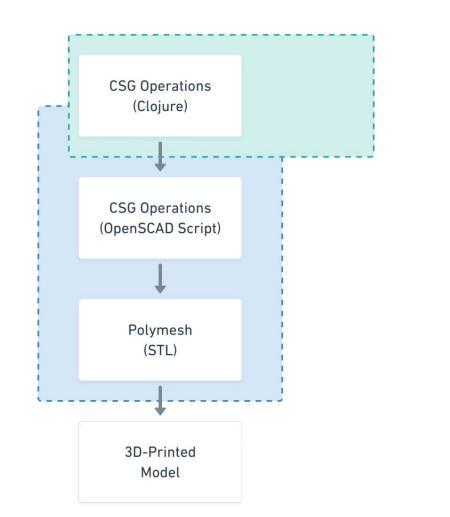




The stack





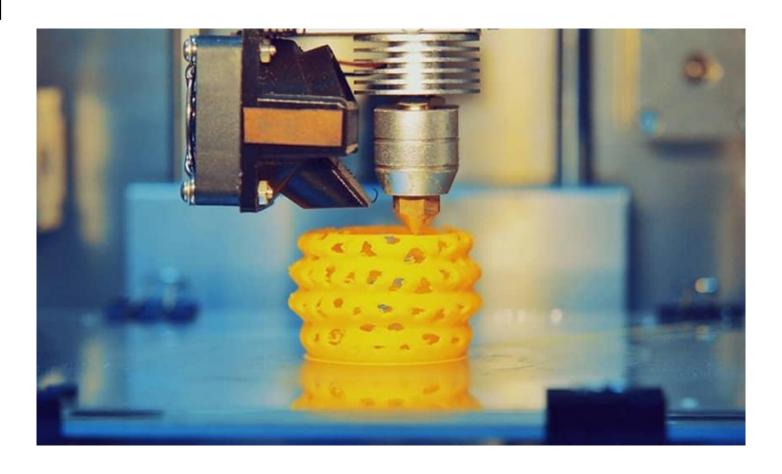


Live demo

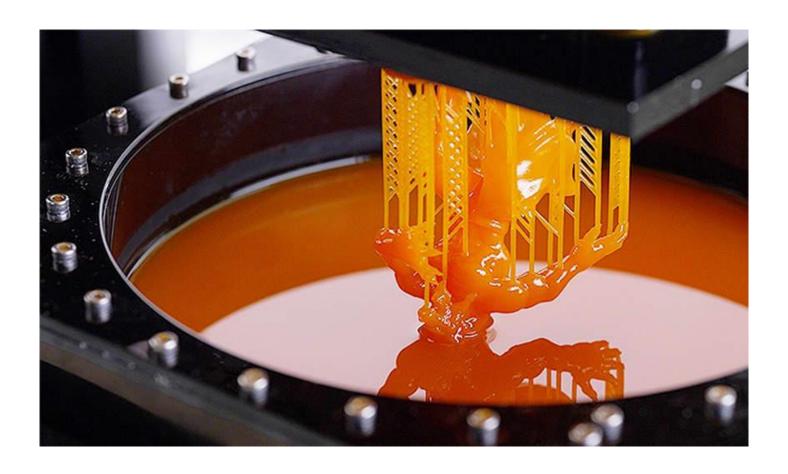


3D Printing

FDM



SLA



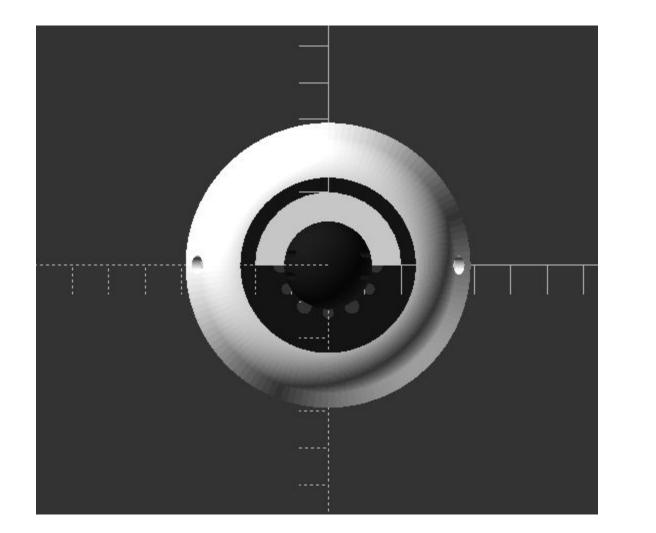
SLS

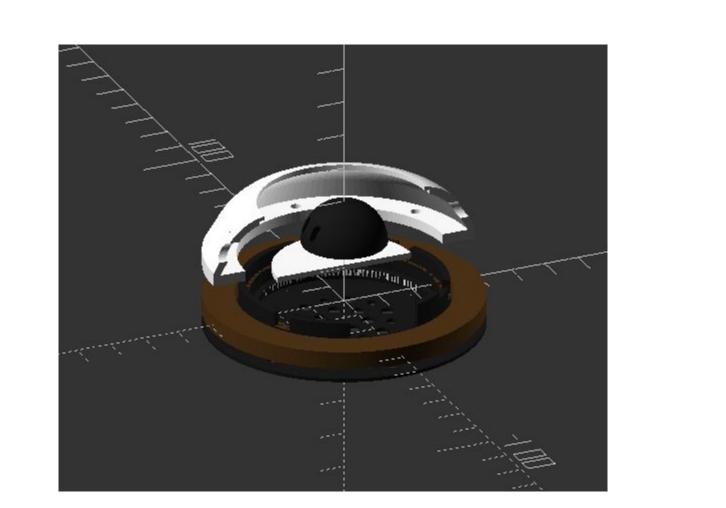


S sculpteo



HP.1







People

Thank you

github.com/altitude twitter.com/superzamp

References

Solid Modeling

https://fr.slideshare.net/michaeljamesheron/03-graphical-representation

https://en.wikipedia.org/wiki/Solid modeling

https://en.wikipedia.org/wiki/Constructive_solid_geometry

https://transmagic.com/six-reasons-watertight-models-matter/

OpenSCAD

https://en.wikibooks.org/wiki/OpenSCAD User Manual



https://github.com/altitude/scad-clj-demo