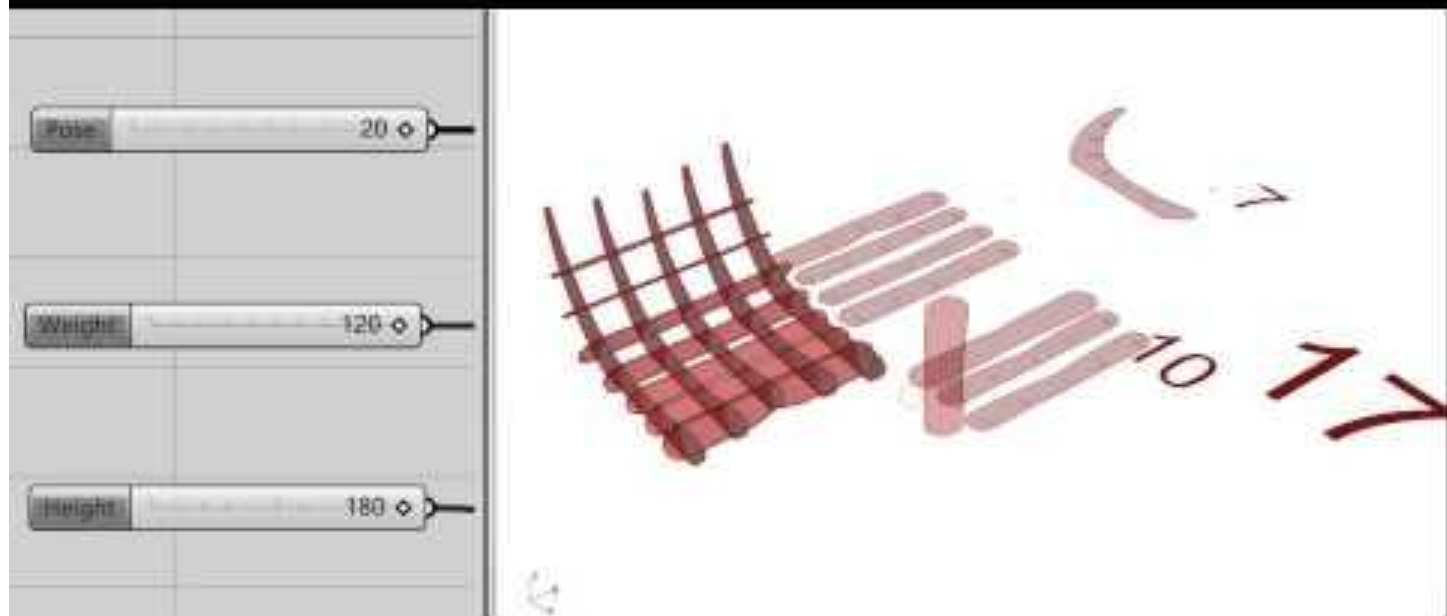


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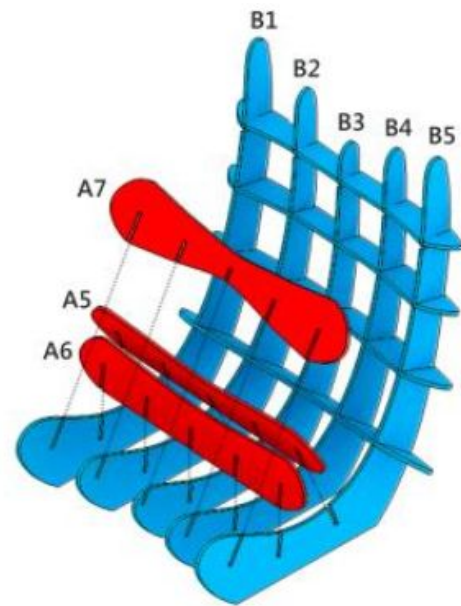
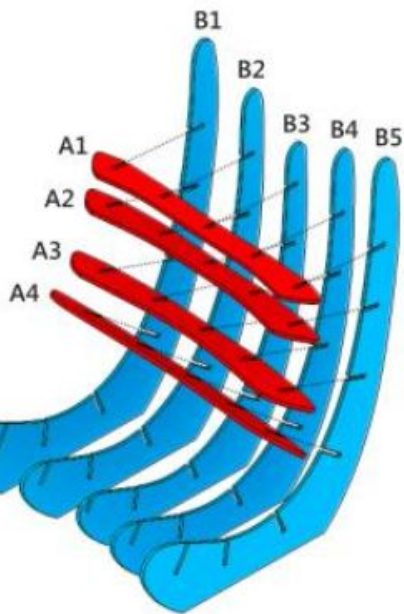
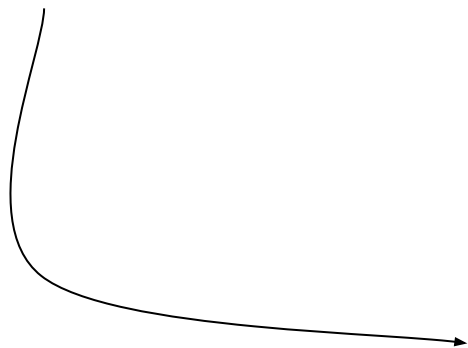
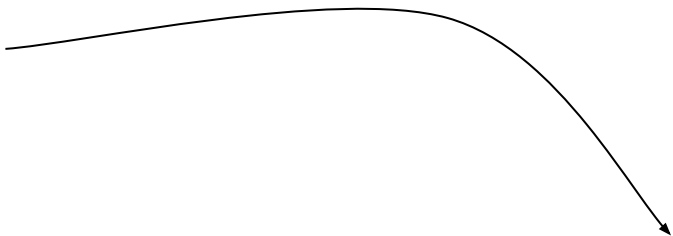
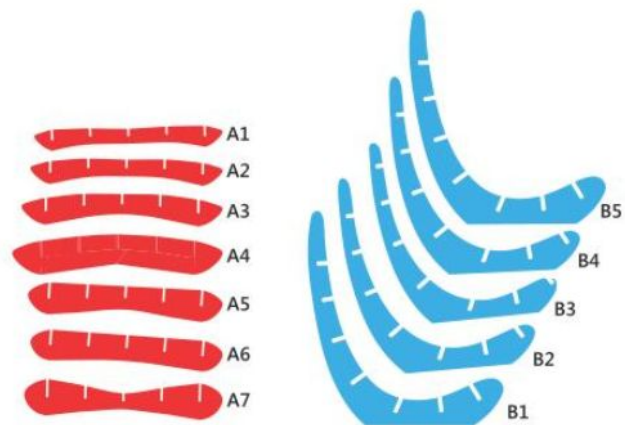
Making furniture with JavaScript

Amit Nambiar

Computational Designer







Parametric Furniture



Parametric Furniture



Parametric Furniture



**Real
People!**



O-LAP

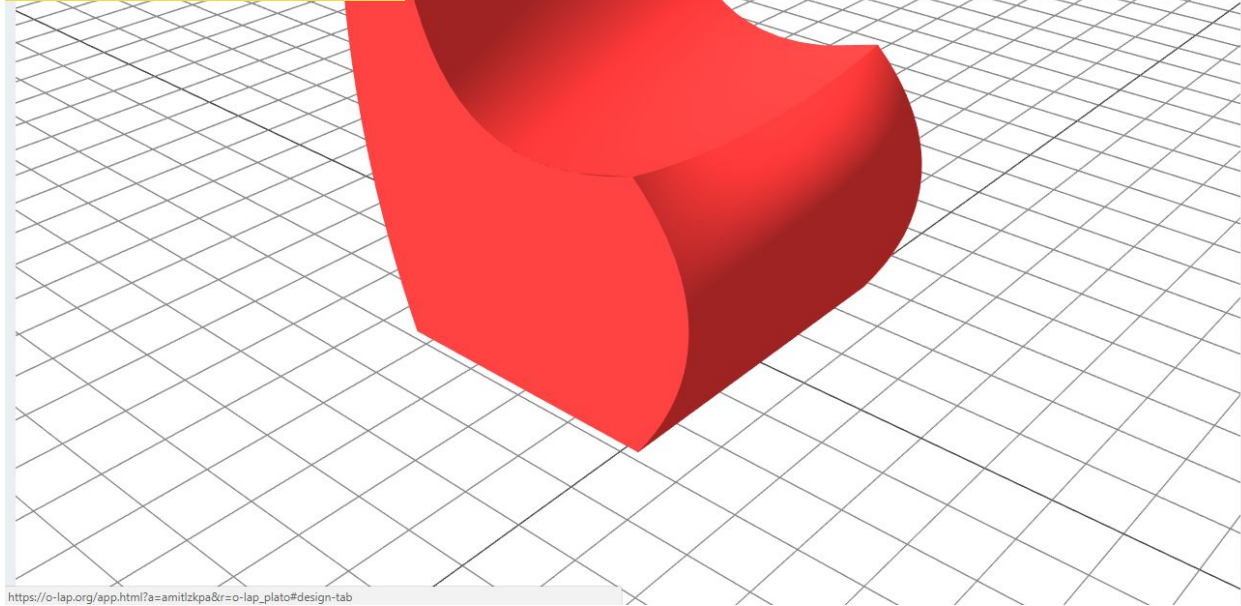
Mumbai, 2014-16

A yellow square containing the letters 'JS' in a bold, dark grey, sans-serif font.

JS

JavaScript

New York, 2018-?



Browser address bar: `...a&r=o-lap_plato`

Browser toolbar: Star, Mail, Calendar, Photos, Drive, Docs, Maps, Search, Font, Color, Size, Bold, Italic, Underline, Link, Unlink, Text color, Background color, Bulleted list, Numbered list, Indented list, Decrease indent, Increase indent, Undo, Redo, Print, Full screen, Close.

O-LAP

Plato

1.0.1
Amit Nambiar

DESIGN

INFO

Age

12 60

Weight(in kg)

30 200

☐ High-back

Colour

Red

License: MIT

Environment

☐ Rotate

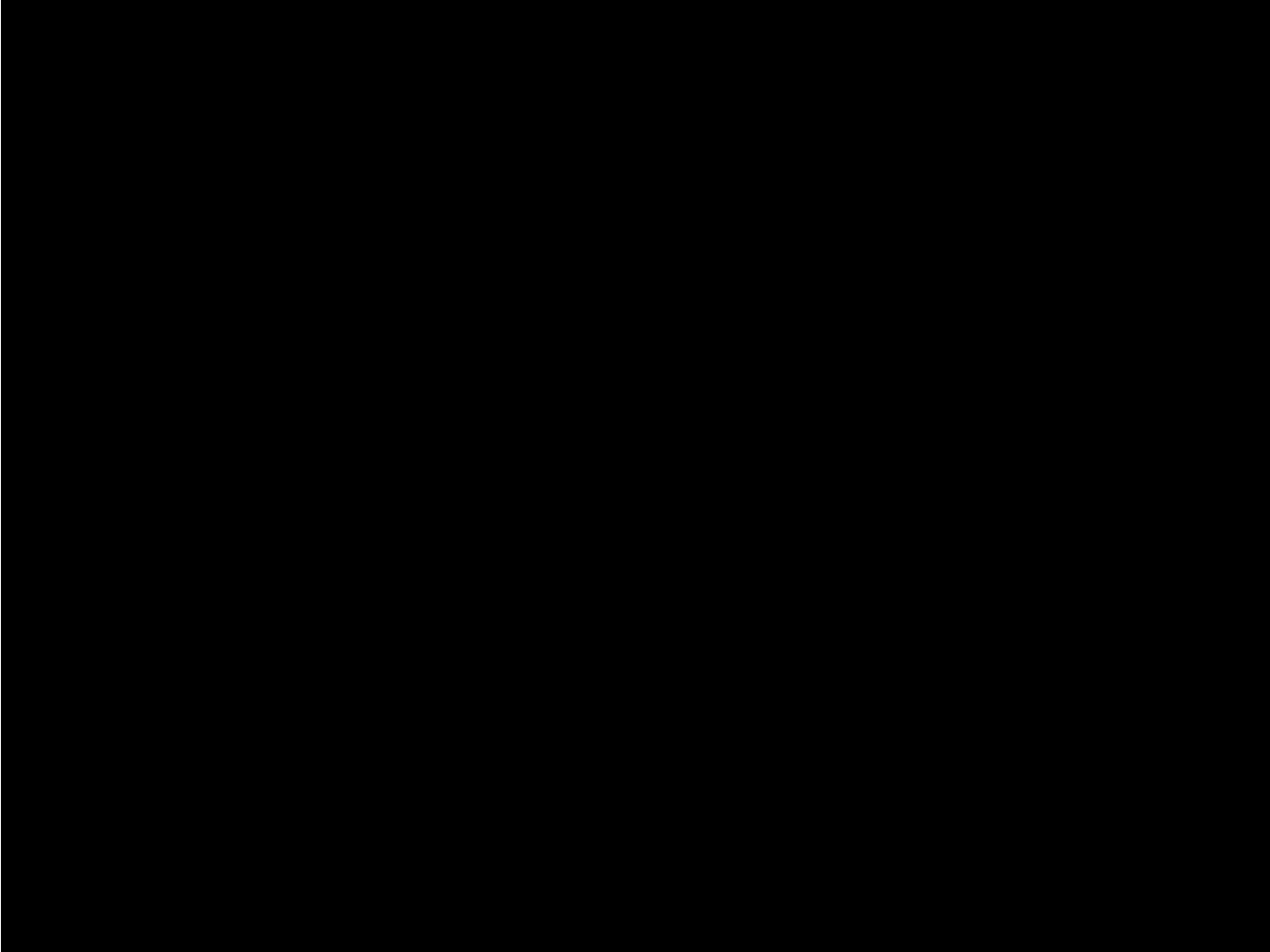
☐ Show Sections

☐ Show Human

☐ Girl

[DOWNLOAD](#)

https://o-lap.org/app.html?a=amitlkpa&r=o-lap_plato



-
-
1. Web App
 2. Community of Designers and Makers
 3. Standards
-

A live web framework to allow

- Designers to collaborate and design
 - Makers to easily make the design
 - Easily accessible to users
-

**Community
Curation**

Standards

**Independent
makers**

Designer

Furniture Designers
JavaScript Developers

Designer

Furniture Designers
JavaScript Developers

**Self hosted
independent
designers**

**Public
Design
Collection**

Web App

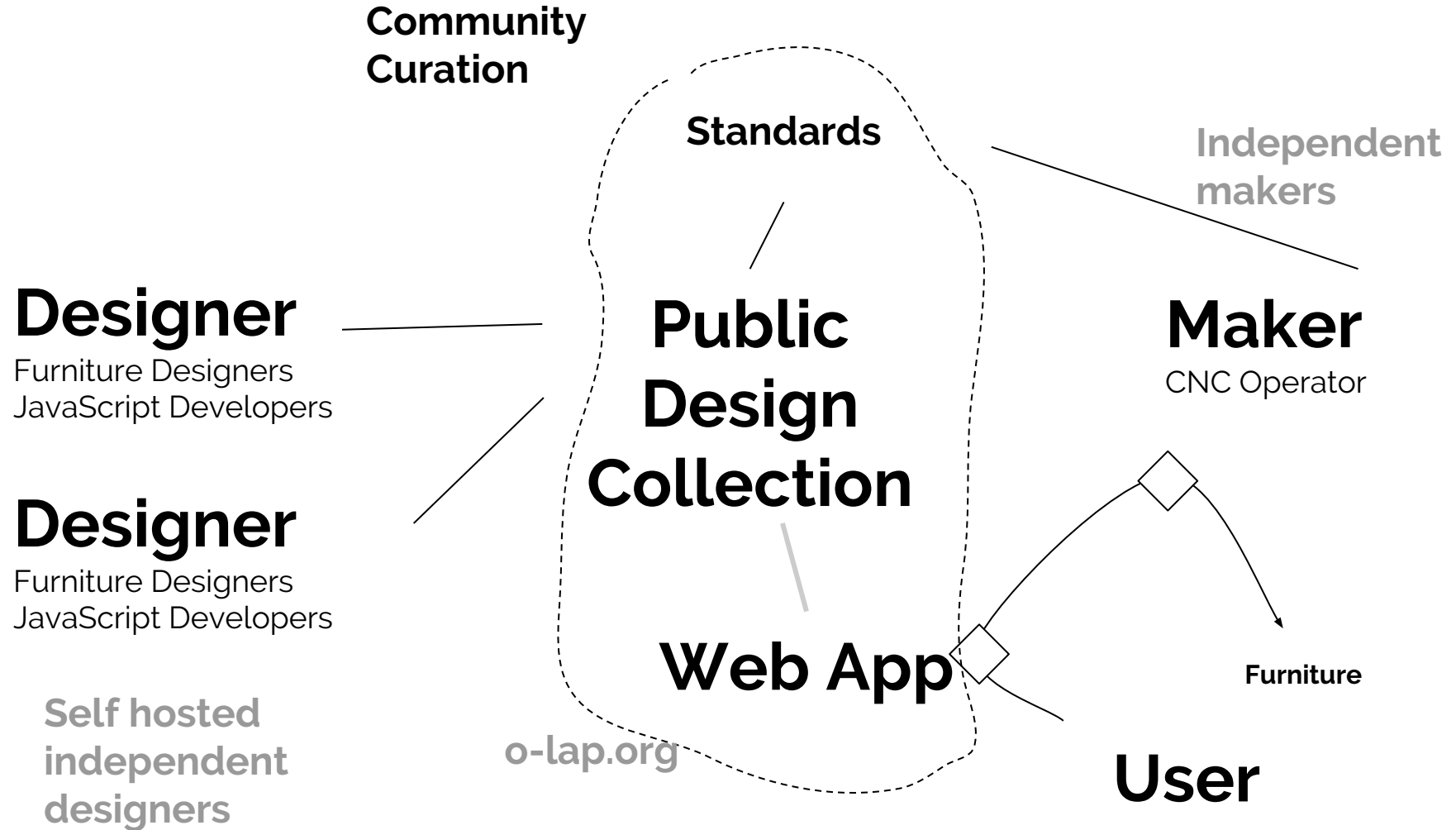
o-lap.org

Maker

CNC Operator

Furniture

User



**Democratize
Design**

~30 makers

**Decentralize
Production**

8 countries

—

Reduce Entry Barrier

1. High entry barrier
2. Lot of resources required to manufacture at scale

—

New Dimension for Creativity

1. Anthropomorphic Data Sets?
2. Machine Learning for Furniture Design?
3. Demographic Distinctions?
4. *

Customized Flatpack Furniture at Scale

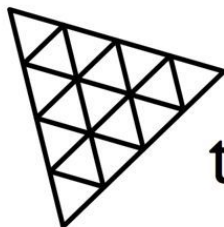
1. Mass-produced yet mass-customized



git



Collaborative web app

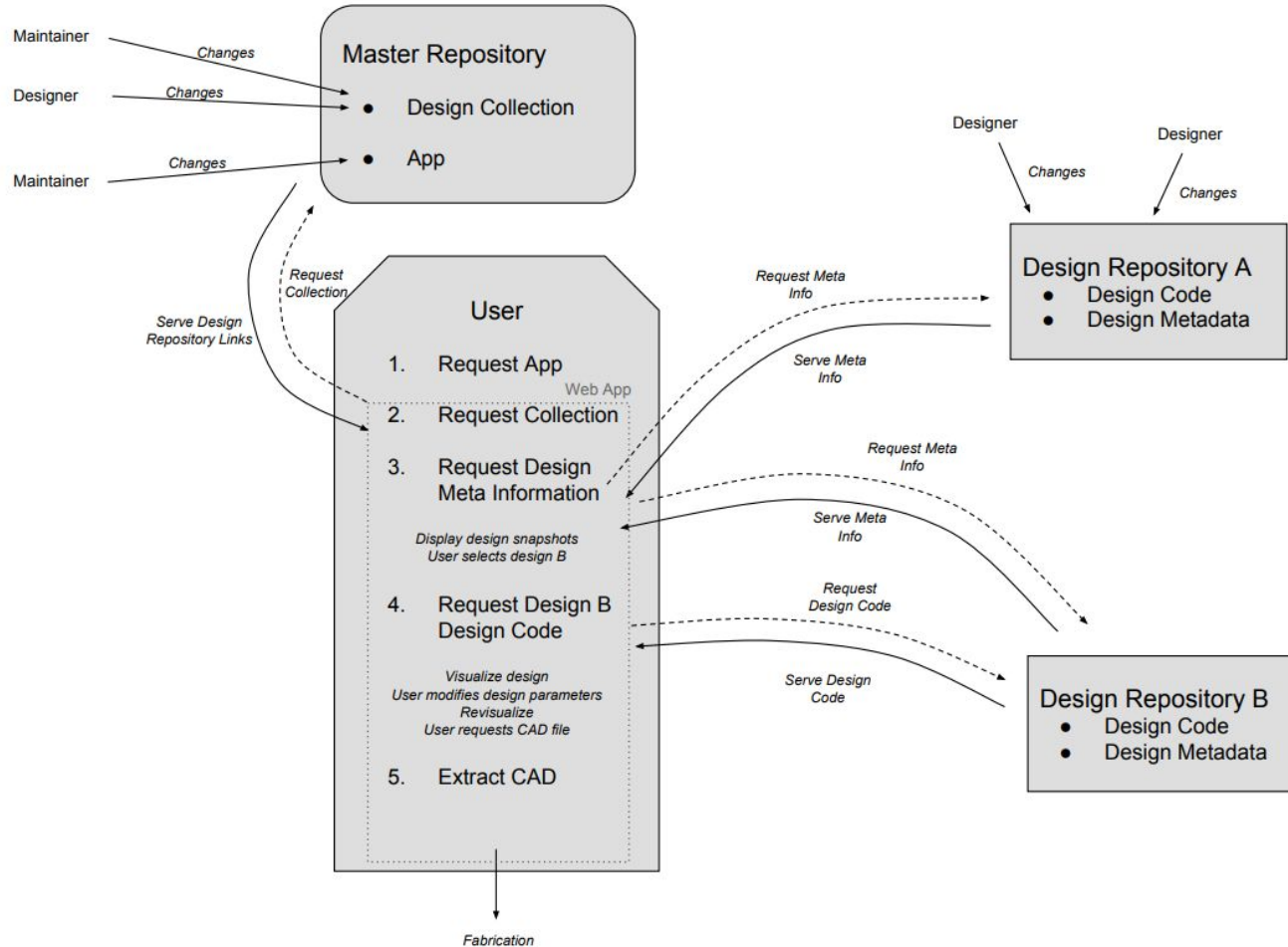


three.js

verb^{2.1.0}

Open-source, cross-
platform NURBS

Only static pages
No servers
Client side processing



O-LAP.org

<https://github.com/O-LAP/home>

Amit Nambiar

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