Real-time product design review on the web

- The project
- 3D on the Web
- Real-time web API
- Demo
The project

Process Management

PLM = Product Lifecycle Management

Product Structure
Bill of Materials
Configuration
Document Management
Visualization
Change Management
Technologies

Modern and standard stacks

Elasticsearch
BackBoneJS
NodeJS
Java EE 7
HTML5
3D on the Web

Web 3D, the point

- Works on all modern browsers
- Based on OpenGL ES 2.0
- Many mature engines built on
- 2D frameworks start using WGL renderer
- Even has low level API like Vertex and Pixel shaders

Interesting things we do

- Delegate computation on server side using Node.js
- Rely on Web Workers to parallelize algorithms
Real-time Web API

Real-time Web, the point

- **Server-Sent Events**: one way messaging
- **Web Sockets**: great but not really HTTP
- **WebRTC**: awesome features: SRTP, STUN, TURN and ICE for NAT transversal
- **MediaStream** API

Interesting things we do

- Contextual chat & video conference
- Digital Mock-Up review
Demo
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