

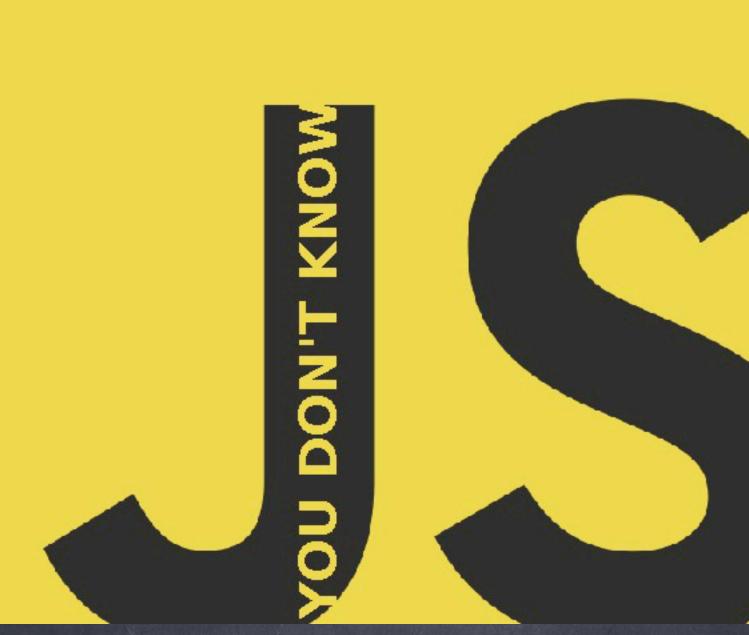
Kyle Simpson @getify http://getify.me

- LABjs
- grips
- h5ive
- We Puzzle It!

Kyle Simpson @getify http://getify.me



http://speakerdeck.com/getify



http://YouDontKnowJS.com



Developers

About

Contribute







THE VOLUTION VISION.

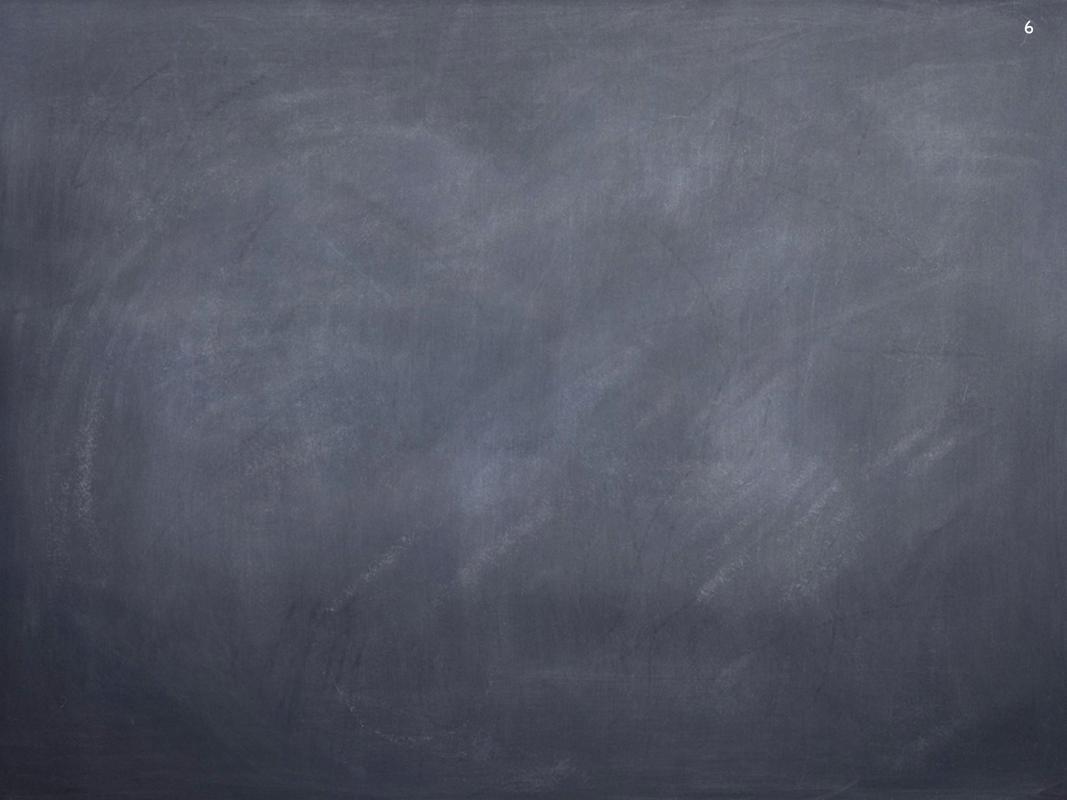
BUILD. SHARE. UNITE.

We're a growing community of developers united to push the boundaries of HTML5 and revolutionize digital experiences.

Submit your ideas!

Learn More

http://HTML5Hub.com



Real-Time: HTML5 & node.js







http://python.org/download/

you "need" python

http://nodejs.org/download/

you **need** node.js

https://github.com/getify/unnamed.git

Unnamed is a game!

Blackbeard:unnamed getify\$ git checkout step1
Note: checking out 'step1'.

You are in 'detached HEAD' state. You can look around, make experimental changes and commit them, and you can discard any commits you make in this state without impacting any branches by performing another checkout.

If you want to create a new branch to retain commits you create, you may do so (now or later) by using -b with the checkout command again. Example:

git checkout -b new_branch_name

HEAD is now at 4ccf634... rename
Blackbeard:unnamed getify\$ ls -la
total 8
drwxr-xr-x 6 getify staff 204 Jul 23 12:38 .
drwx----- 7 getify staff 238 Jul 23 12:36 ..
drwxr-xr-x 16 getify staff 544 Jul 23 12:38 .git
-rw-r---- 1 getify staff 61 Jul 17 11:46 README.md
drwxr-xr-x 5 getify staff 170 Jul 23 12:38 server
drwxr-xr-x 6 getify staff 204 Jul 23 12:38 web
Blackbeard:unnamed getify\$

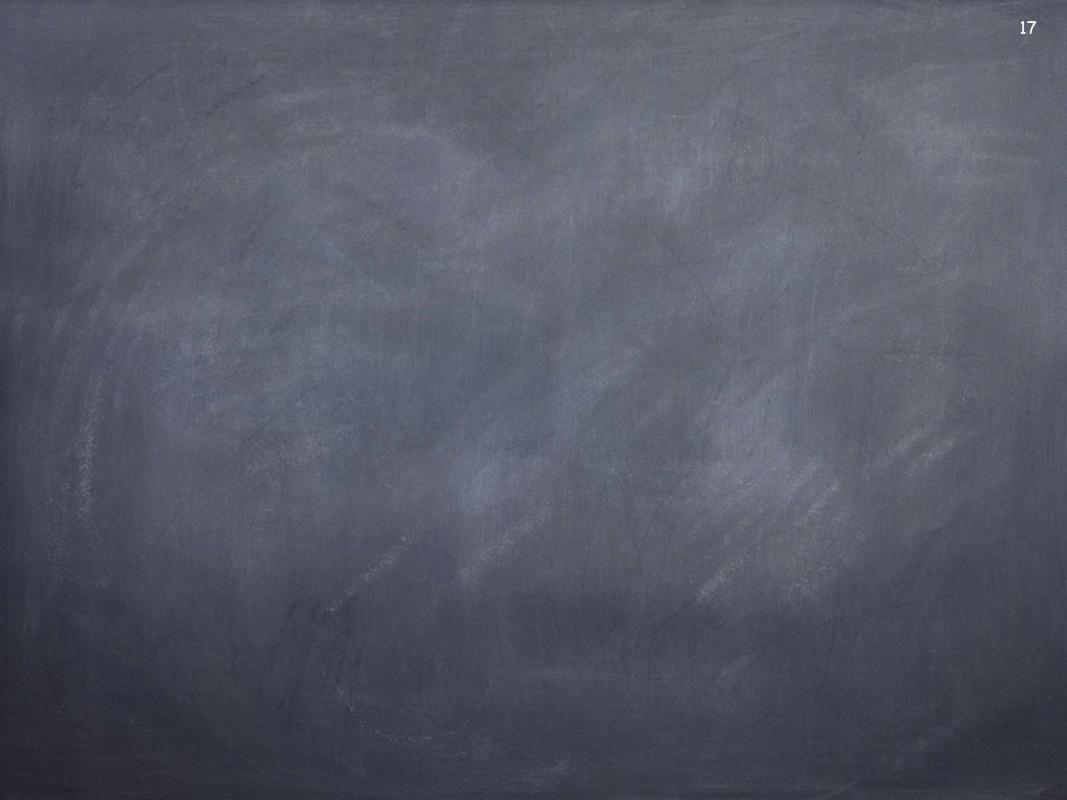
Blackbeard:web getify\$ python -m SimpleHTTPServer 8080 Serving HTTP on 0.0.0.0 port 8080 ...

or: python3 -m http.server 8080

```
Blackbeard:server getify$ cat secret.js
exports.PUBLIC_SERVER_ADDR = "..";
exports.PUBLIC_SERVER_PORT = 0;
exports.INTERNAL_SERVER_ADDR = "127.0.0.1";
exports.INTERNAL_SERVER_PORT = 8005;
exports.CORS_GET_HEADERS = {
        "Access-Control-Allow-Origin": "http://localhost:8080",
        "Access-Control-Allow-Credentials": false,
        "Access-Control-Allow-Methods": "GET, OPTIONS",
        "Access-Control-Allow-Headers": "Content-Type, User-Agent, X-Requested-With"
};
exports.CORS_POST_HEADERS = {
        "Access-Control-Allow-Origin": "http://localhost:8080",
        "Access-Control-Allow-Credentials": false,
        "Access-Control-Allow-Methods": "POST, OPTIONS",
        "Access-Control-Allow-Headers": "Content-Type, User-Agent, X-Requested-With"
Blackbeard:server getify$
```

Blackbeard:server getify\$ node server.js

● ○ ○ Unnamed ×
← → C ↑ □ localhost:8080
Unnamed First Name
Email
login



Agenda

- HTML5
- node.js
- · Web Sockets (socket.io)
- WebRTC

HTML5

facades

https://github.com/getify/h5ive

storage

<canvas>

getUserMedia, video>

requestAnimationFrame

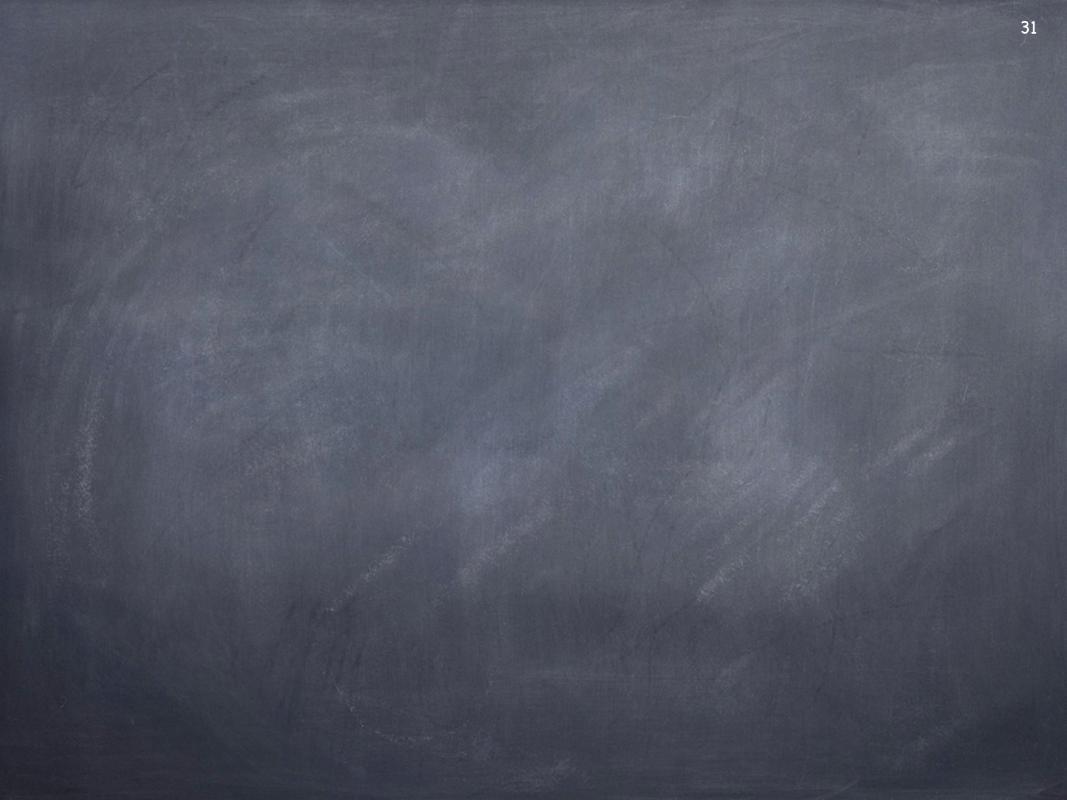
WebSockets

node.js

Hello World

async flow

https://github.com/getify/asynquence



socket.io

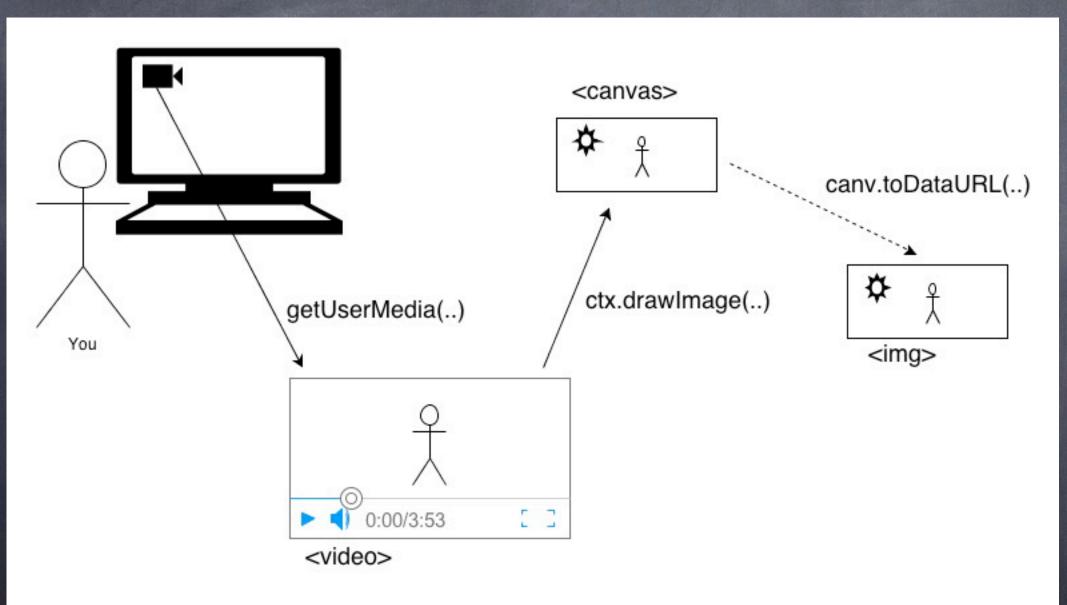
http://socket.io/

Hello World

WebRTC

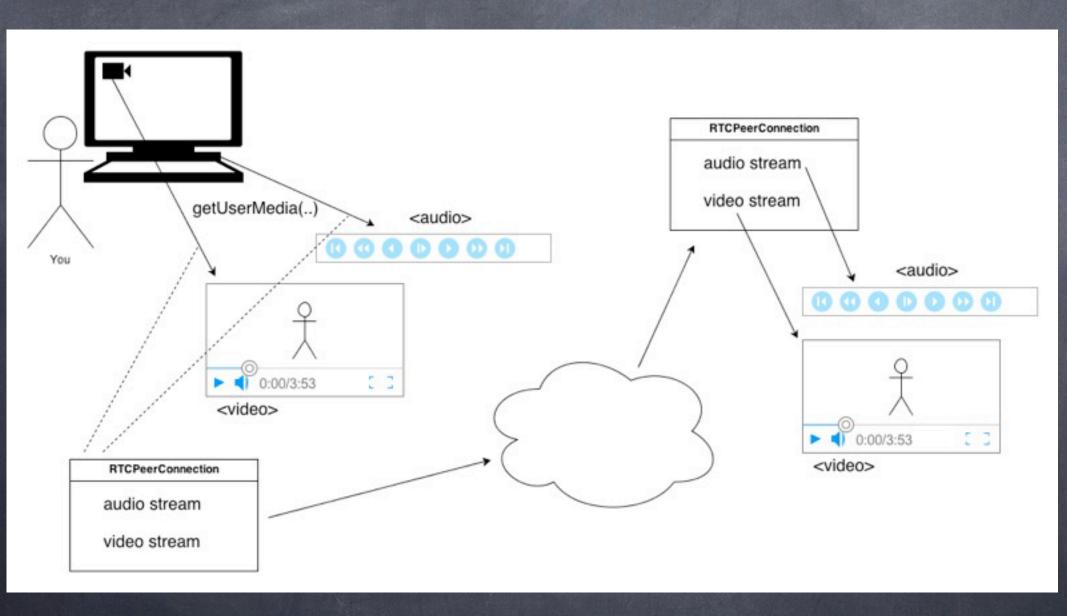
http://www.webrtc.org/

webcam capture

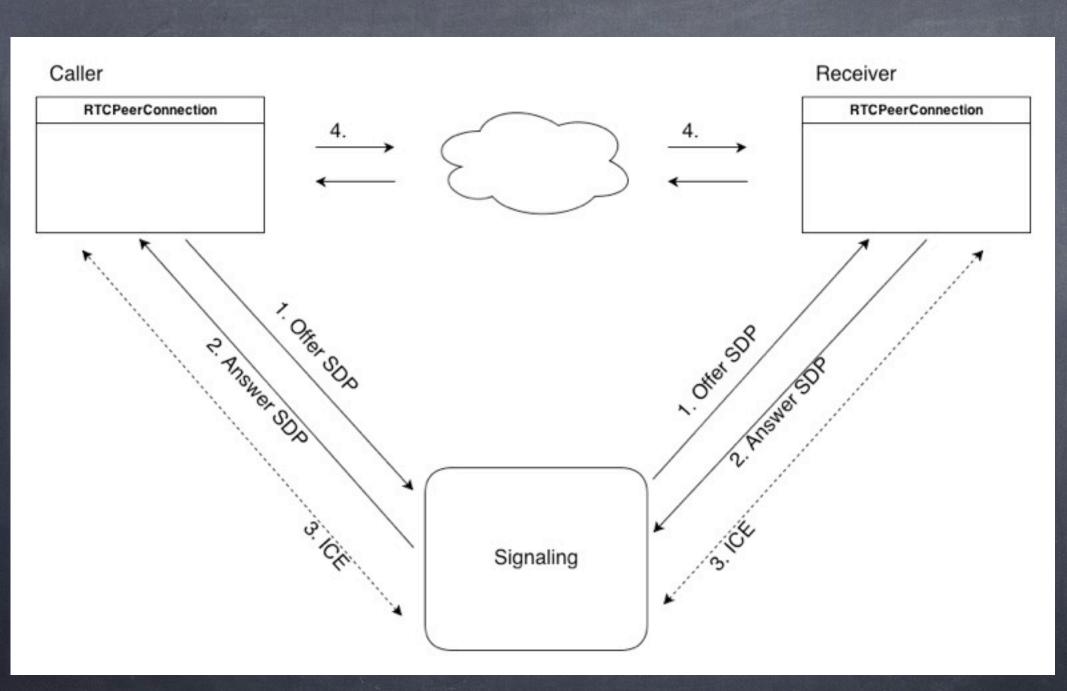


RTCPeerConnection

Video, Audio



Signaling



DataChannel

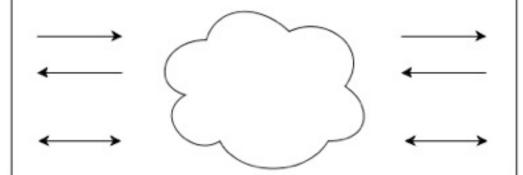
Caller

RTCPeerConnection

audio stream

video stream

DataChannel



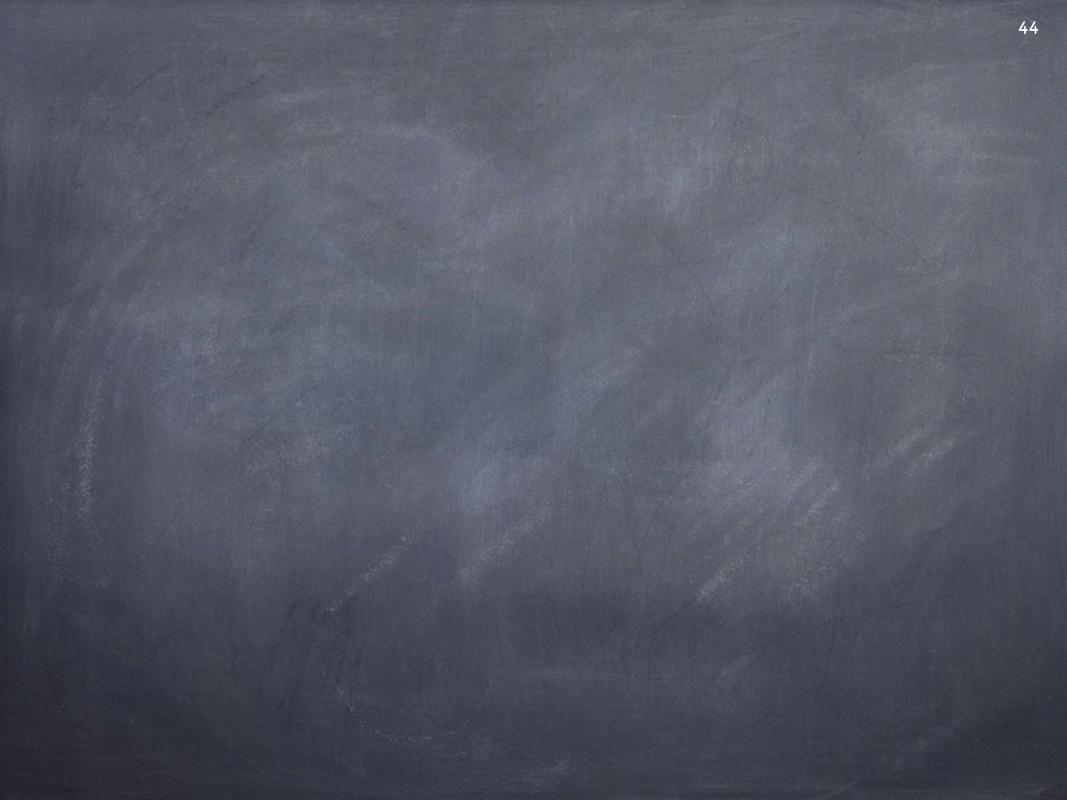
Receiver

RTCPeerConnection

audio stream

video stream

DataChannel



Take a deep breath

Kyle Simpson @getify http://getify.me

Thanks!

Questions?