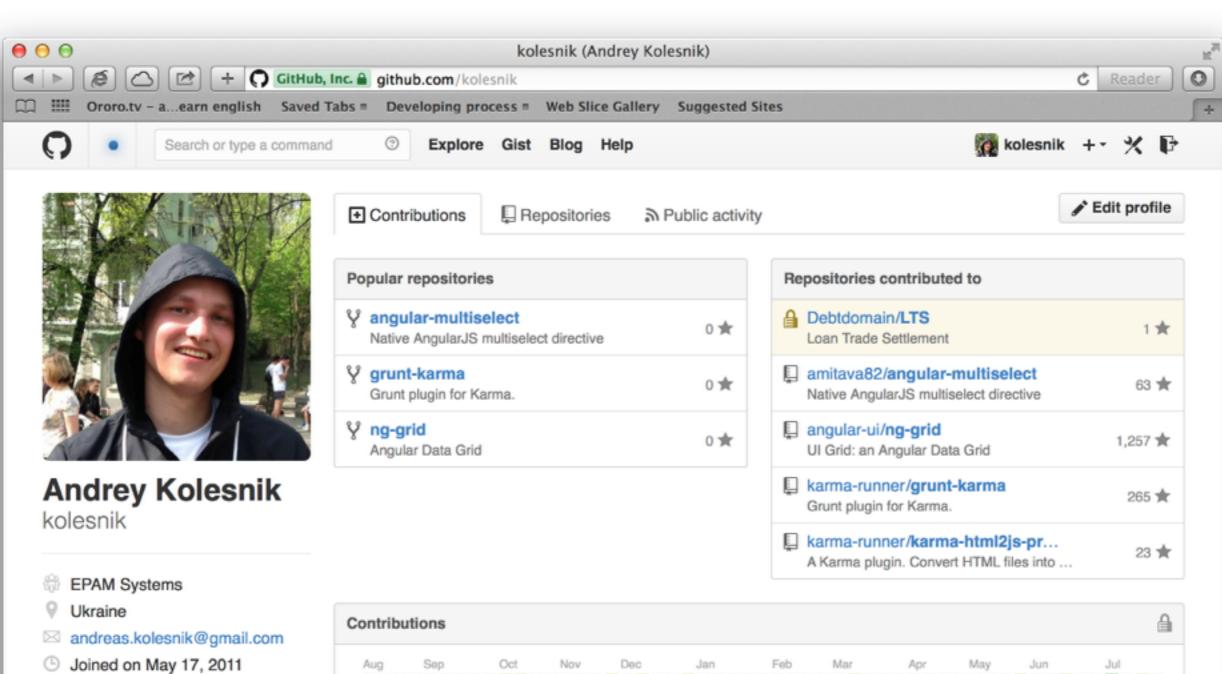
WebSockets, WebRTC

Andrey Kolesnik







5

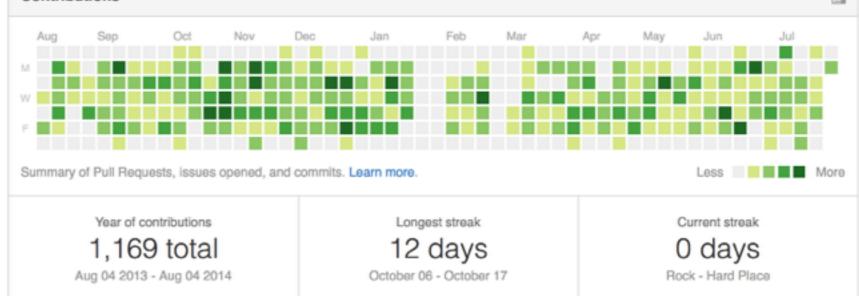
Followers

25 Starred

Following







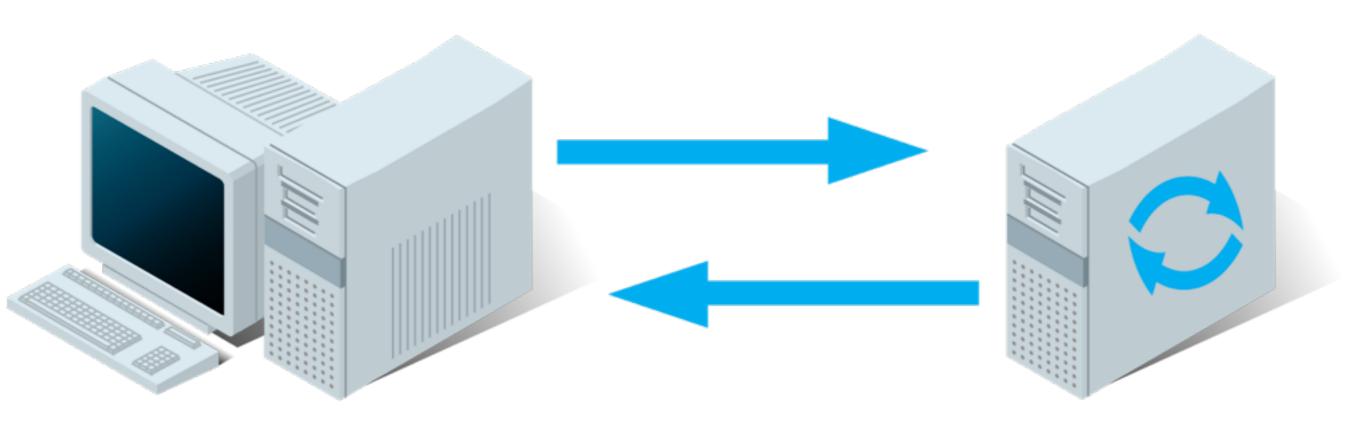
Agenda

- WebSocket protocol
- WebSocket API
- WebSocket examples from real project
- Practice
- WebRTC overview

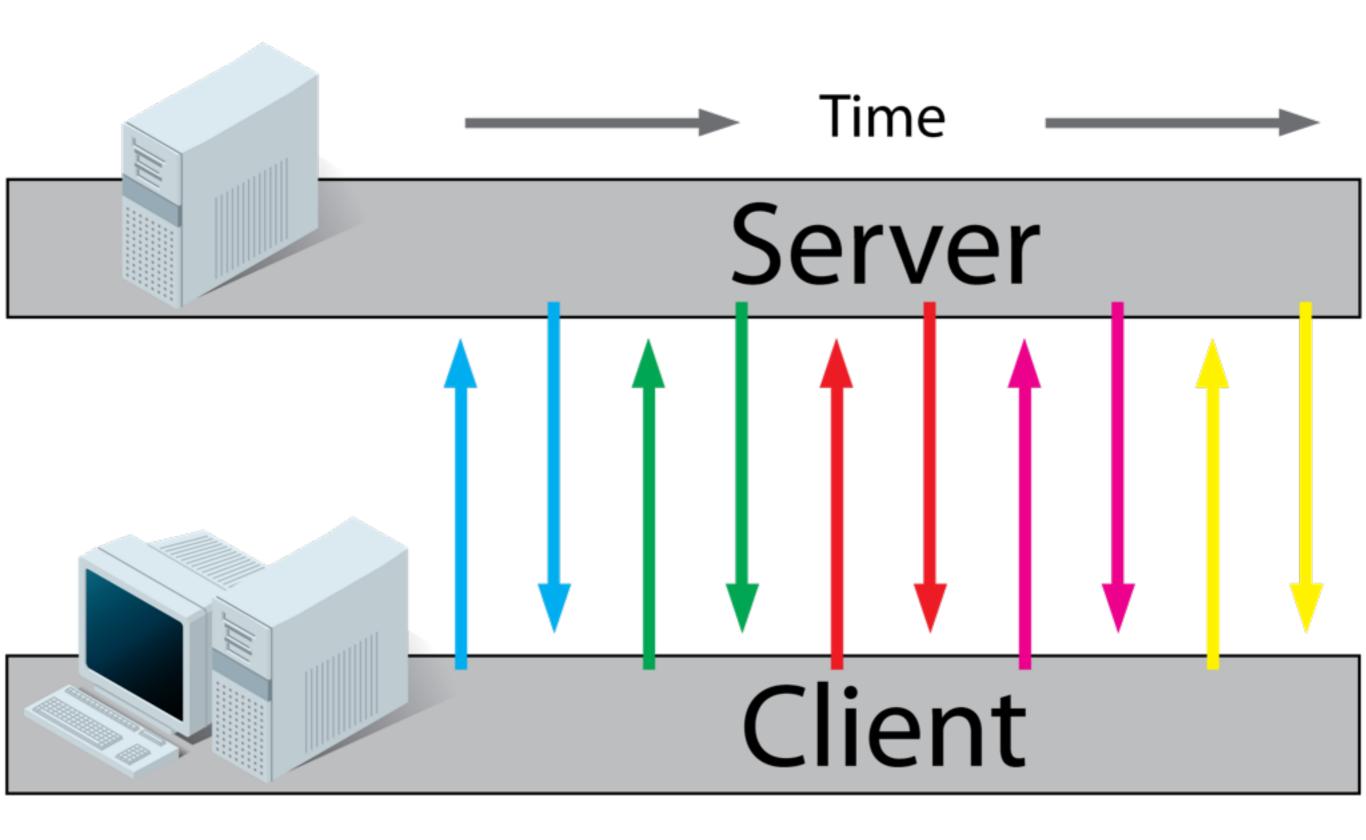
The WebSocket Protocol

RFC6455

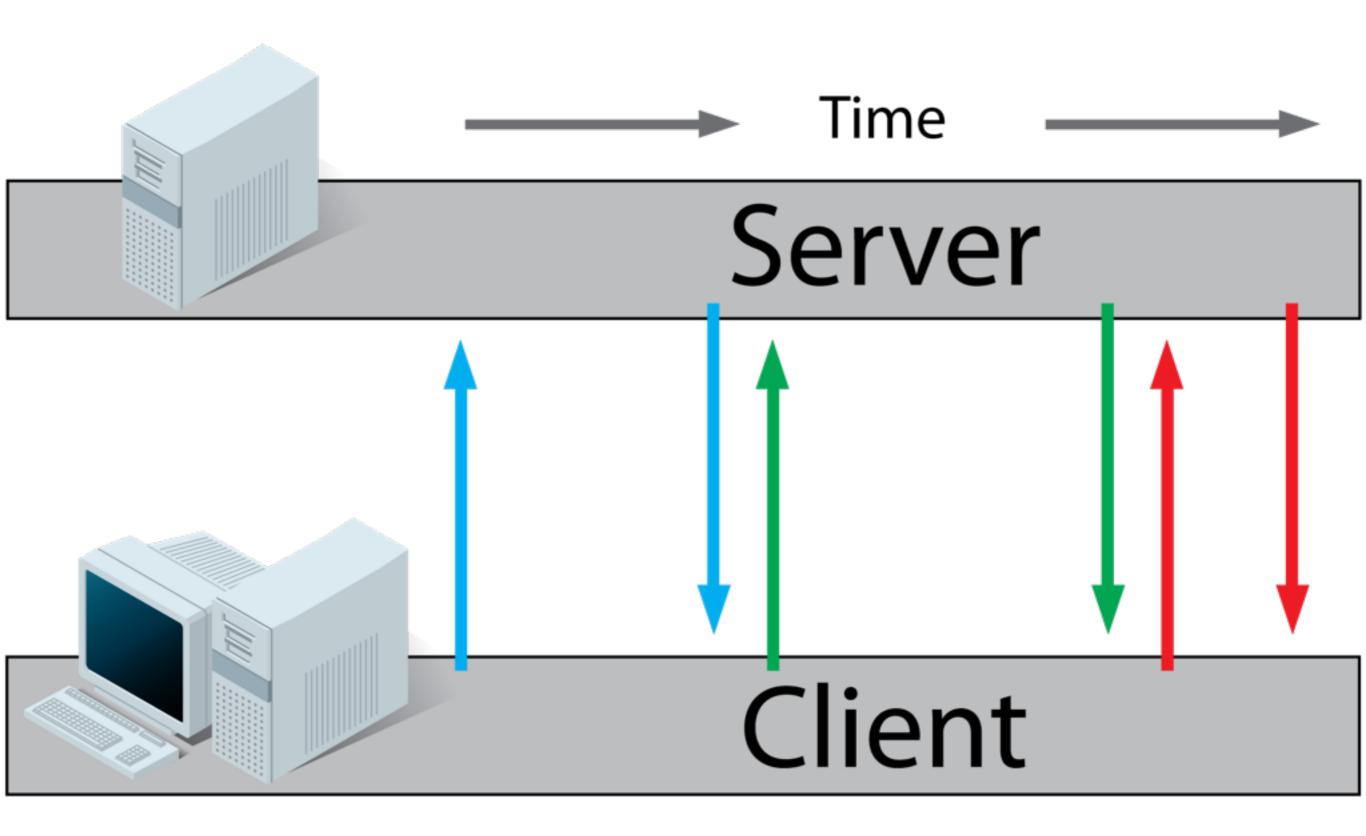
Regular HTTP



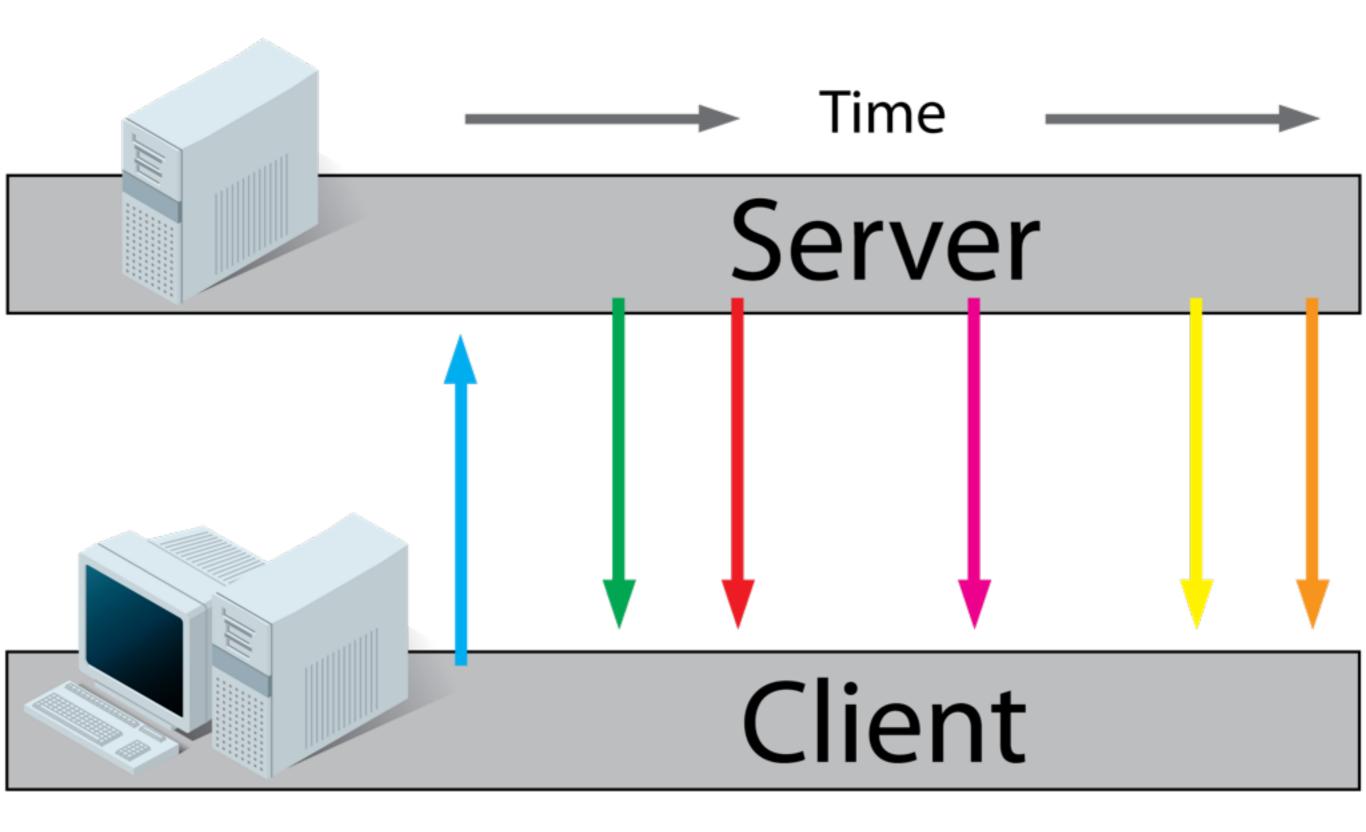
AJAX Polling



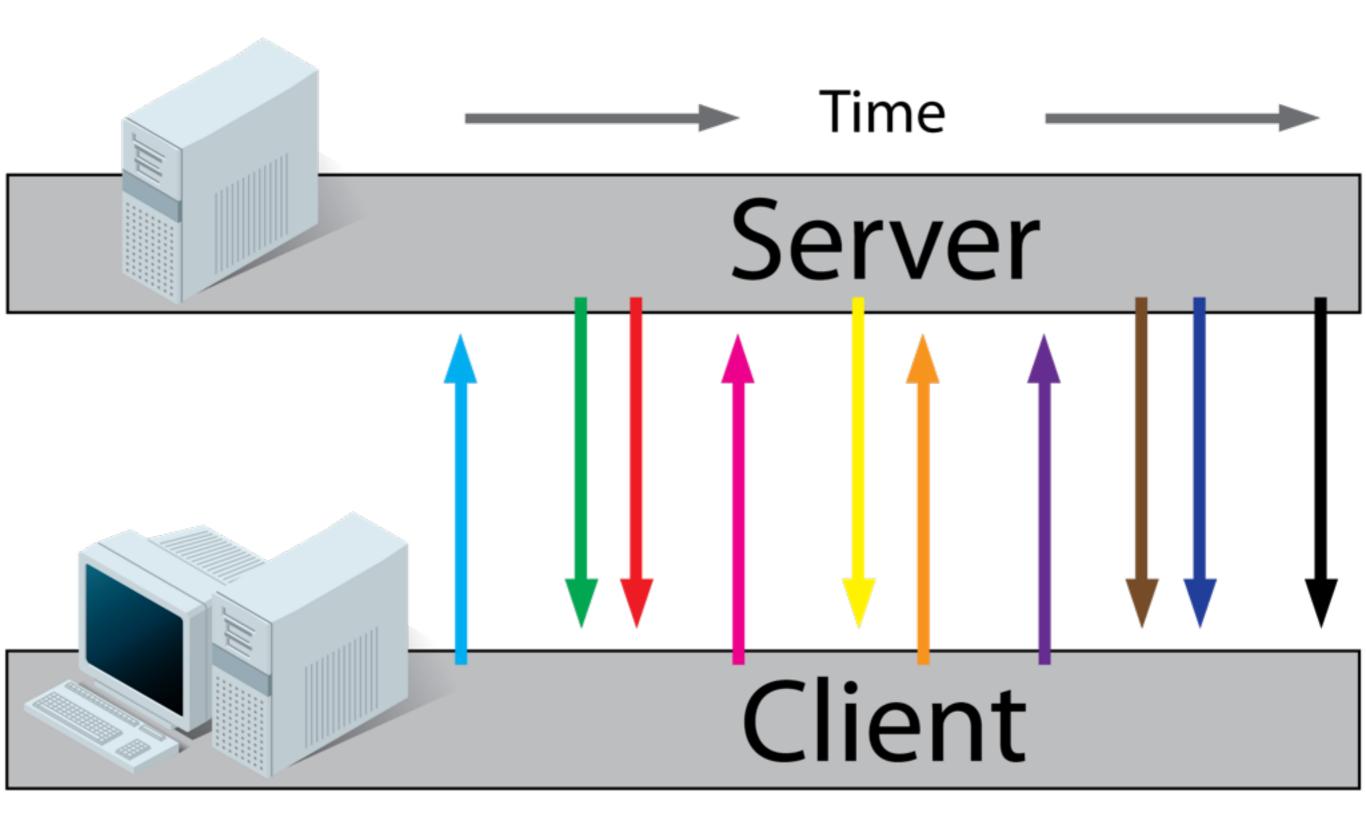
AJAX Long-Polling



HTML5 Server Sent Events



HTML5 WebSockets



WebSocket client request

new WebSocket("ws://server.example.com/chat")

```
GET /chat HTTP/1.1
Host: server.example.com
Upgrade: websocket
Connection: Upgrade
Origin: http://javascript.ru
Sec-WebSocket-Key: Iv8io/9s+lYFgZWcXczP8Q==
Sec-WebSocket-Version: 13
```

WebSocket server response

HTTP/1.1 101 Switching Protocols

Upgrade: websocket

Connection: Upgrade

Sec-WebSocket-Accept: hsBlbuDTkk24srzEOTBU1ZA1C2g=

WebSockets Security

Examples

- LTS Project Tools
- http://demo.kaazing.com/livefeed/
- http://www.totaljs.com/

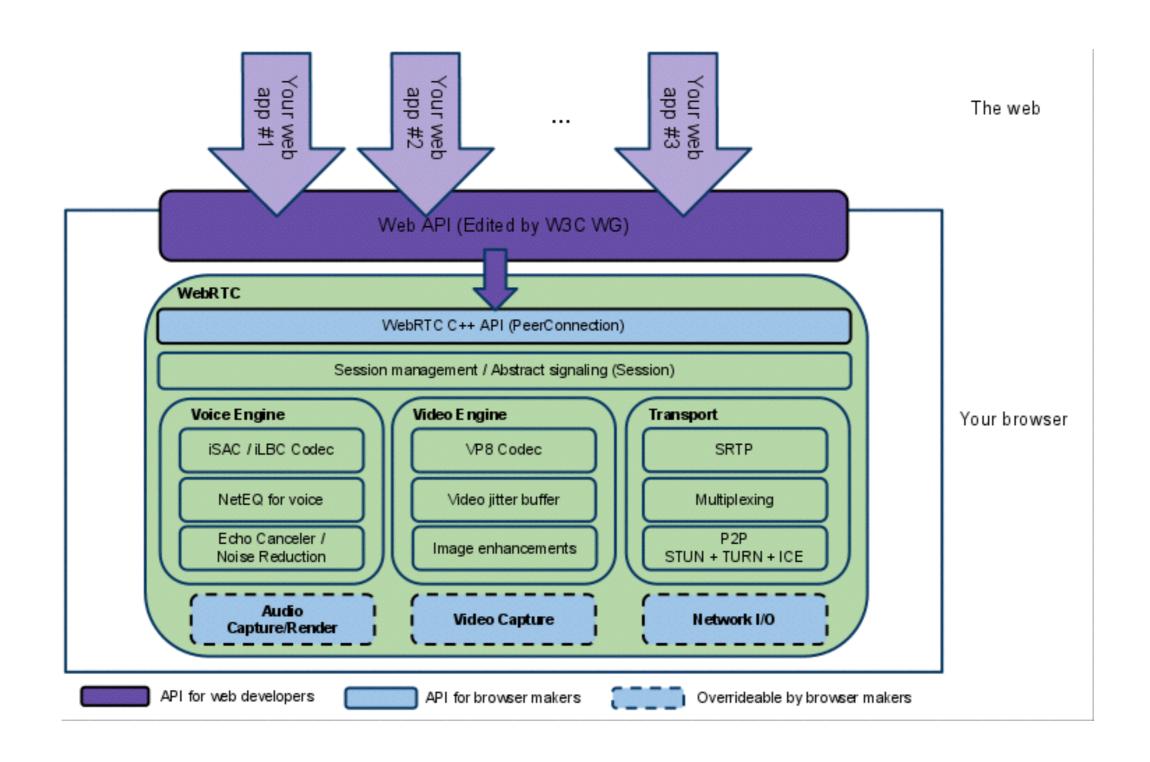
Practice

http://socket.io/

WebRTC



WebRTC Architecture



Example

http://www.jamwithchrome.com/

References

- http://www.developerfusion.com/article/143158/anintroduction-to-websockets/
- http://learn.javascript.ru/websockets
- http://stackoverflow.com/questions/11077857/whatare-long-polling-websockets-server-sent-events-sseand-comet
- http://tools.ietf.org/html/rfc6455
- https://developer.mozilla.org/en-US/docs/WebSockets

Home Work

Have a look and understand presentation:
 Real-time communication with WebRTC: Google I/O