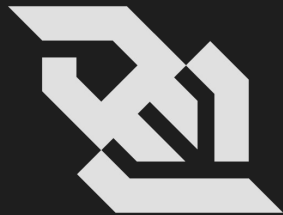


Veftóftir (WebSockets)

Með Socket.IO



trackwell
VMS



Hvað eru veftóftir?

Augljós íslenskun á WebSocket!

Eyesocket → Augntóft

WebSocket → Veftóft



Leit í orðasafni

Á Ð É Í Ó Ú Ý Þ Æ Ö

á ð é í ó ú ý þ æ ö

Leita

* er algildistákn og táknað engan (0) eða fleiri stafi eða stafbil.

? er algildistákn og táknað nákvæmlega einn staf eða stafbil.

Ef * er í leitarstreng verða að vera minnst 2 aðrir stafir.

Þú leitaðir að: **websocket**

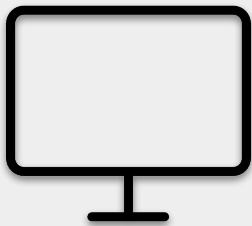
Ekkert leitarorð fannst.

Hvað ertu samt að tala um?

- Opin socket tenging milli framenda og server
- Gögn á rauntíma
- Bakendi getur sent gögn á framendan án þess að framendi kalli beint eftir þeim



Framendi



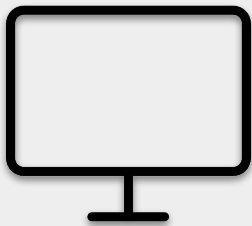
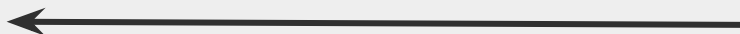
http / https



Vefþjónn



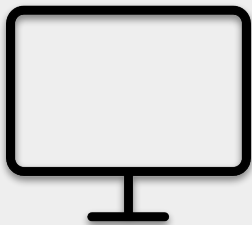
200 OK



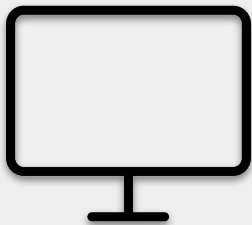
...

Framendi

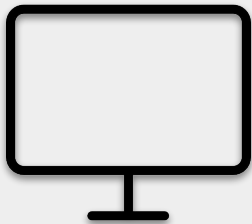
Vefþjónn



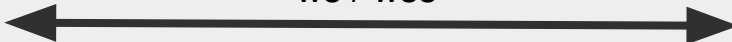
http / https



101 Switching Protocols




ws / wss



DEMO

<https://socket.io/demos/whiteboard/>

Notkunardæmi (Use case)

- Fjölsþila tölvuleikir (Multiplayer)
- Spjallforrit
- Push notifications

... Og allt sem þarf að uppfærast í rauntíma



Vafrastuðningur (Browser Support)

IE	Edge *	Firefox	Chrome	Safari	iOS Safari *	Opera Mini *	Chrome for Android	UC Browser for Android	Samsung Internet
			71		11.4				4
	17	65	72	12	12.1				8.2
11	18	66	73	12.1	12.2	all	73	11.8	9.2

```
// Create WebSocket connection
const websocket = new WebSocket('ws://www.veftoftir.is/echo');

// Send a message to the server
websocket.send('Halló heimur!');

// Receive messages from the server
websocket.onmessage = function (event) {
  const message = event.data;

  doStuff(message);
};
```

```
@ServerEndpoint("/echo")
public class WebSocket {
  @OnOpen
  public void onOpen(Session session){
    // add things that happen as soon as the websocket session opens
  }

  @OnMessage
  public void onMessage(String message, Session session){
    // receive message and implement some logic
  }

  @OnClose
  public void onClose(Session session){
    // cleanup allocated resources for this websocket session
  }
}
```


Smá vesen...

- Session / notenda umsýsla
- Tenging getur rofnað
- Vefsel (proxies) geta valdið vandræðum
- Enginn load balancer stuðningur
- Opera Mini stuðningur (fallbacks)



Socket.IO

- Notar Vefþóftir
- Ef Vefþóftir ganga ekki, þá nýtir það aðrar leiðir
- Opera Mini stuðningur (fallbacks)
- Virkar með vefseljum (proxies)
- Load balancer stuðningur
- Event based



```
// Create socket.io connection
var socket = io('ws://www.veftoftir.is/');
```

```
socket.on('connect', function () {
  // Send a message to the server
  socket.send('Halló heimur!');

  // Receive messages from the server
  socket.on('message', function (msg) {
    console.log(msg);
  });
});
```

```
// initialize a simple https server
const server = https.createServer(app);
```

```
const io = socketio(server);
```

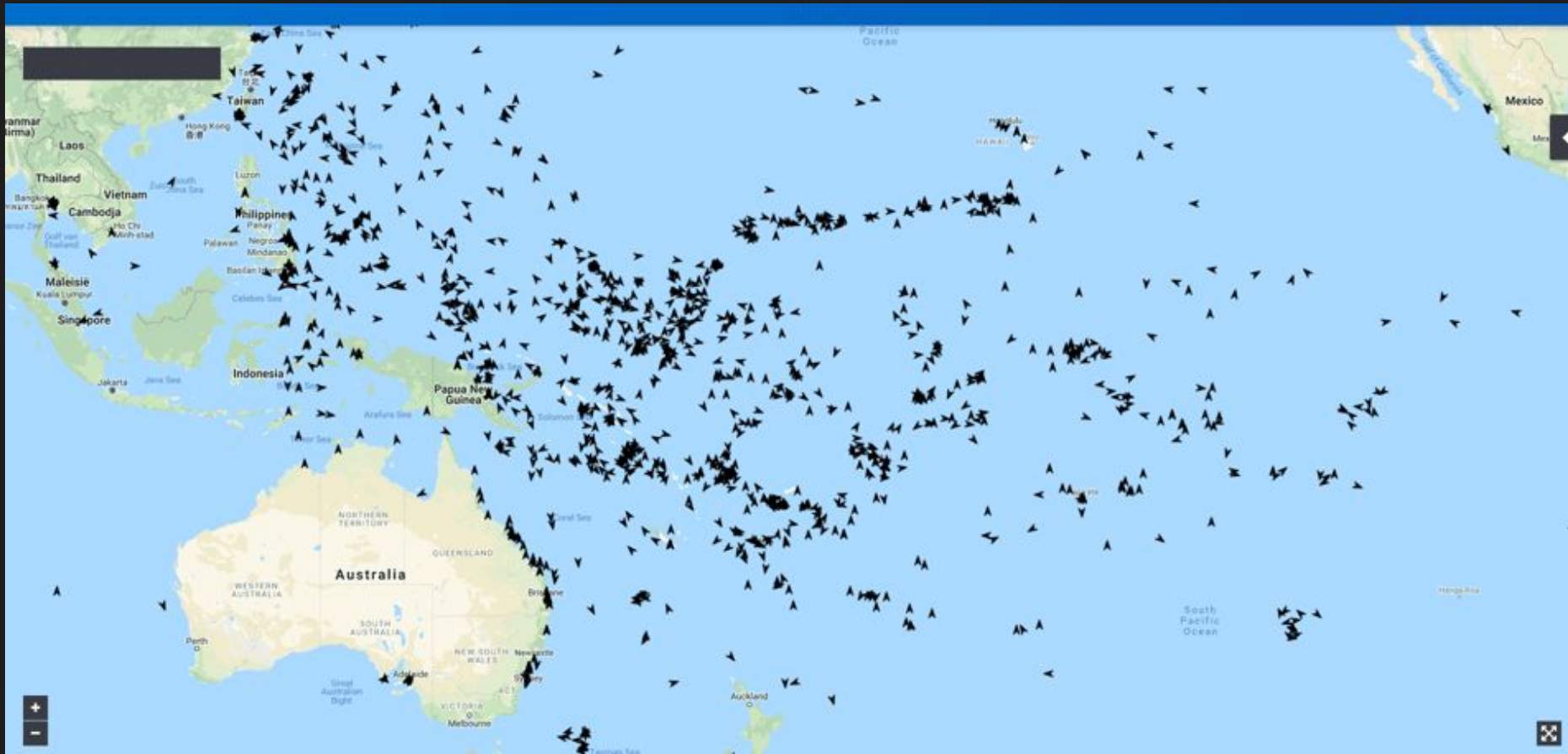
```
io.on('connection', (socket) => {
  // connection is up, let's add a simple simple event
  socket.on('message', (message) => {
    // send the message back to the client
    socket.emit(`Hello, you sent -> ${message}`);
  });
});
```


SignalR - C# .NET

SockJS - Java Spring

Socket.IO - Node.js





Takk fyrir!

