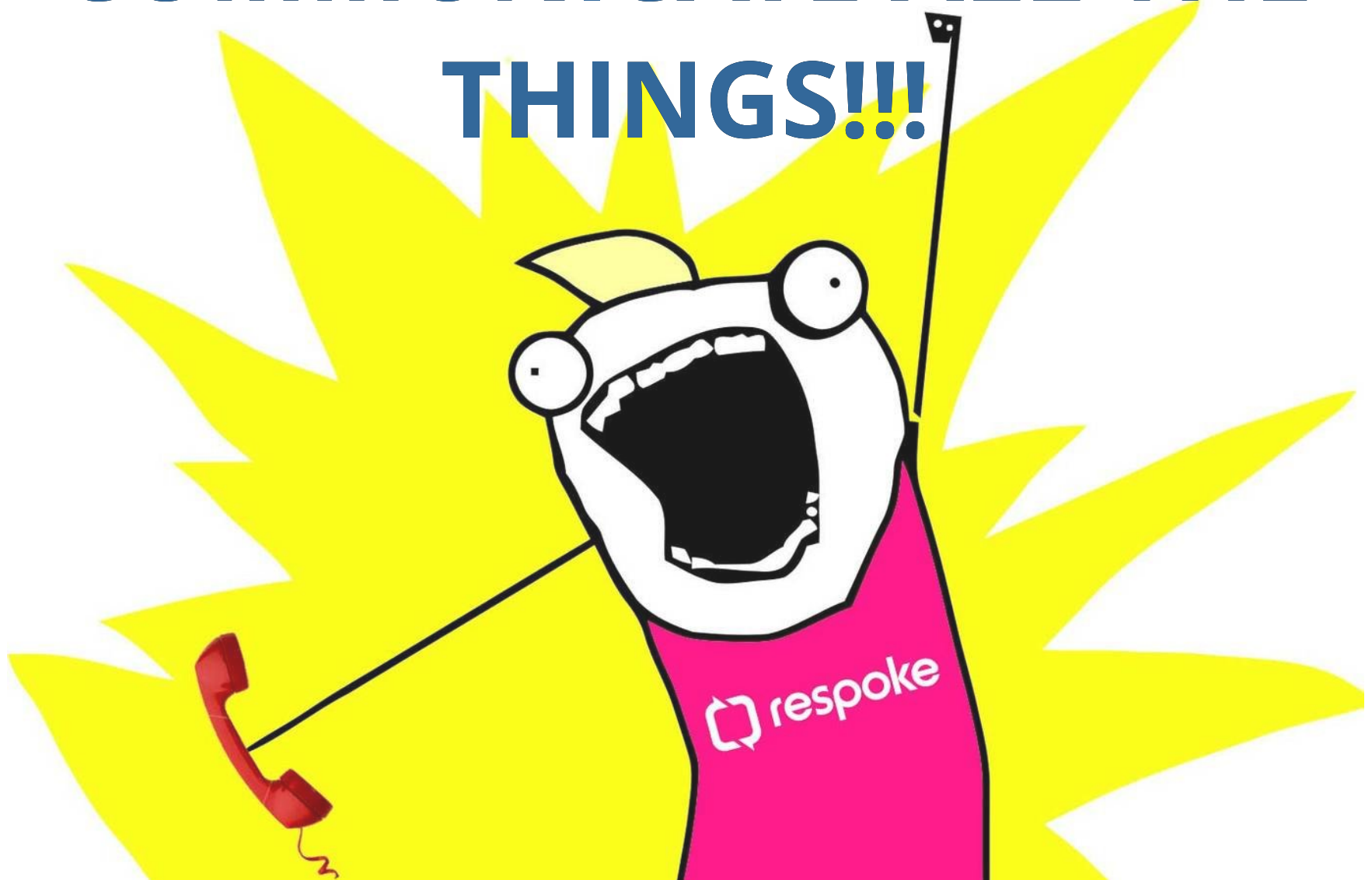


**COMMUNICATE ALL THE THINGS!!!**



**Follow Along**  
**<http://goo.gl/v3aHL9>**

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# What are we going to cover?

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# WebRTC Respoke Code Samples </QA>

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# Who Is This Guy?

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# Kyle Tyacke

**Flash / Web Dev**

**Developer Evangelist Respoke**

**Beer Geek**

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# Who Are You?

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# What the Heck Is WebRTC?



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# WebRTC

*“is a free, open project that enables web browsers with Real-Time Communications (RTC) capabilities via simple JavaScript APIs.”*

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# Contributors



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# WebRTC in the Wild

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# Amazon Mayday



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# Google Hangouts

<https://plus.google.com/hangouts>

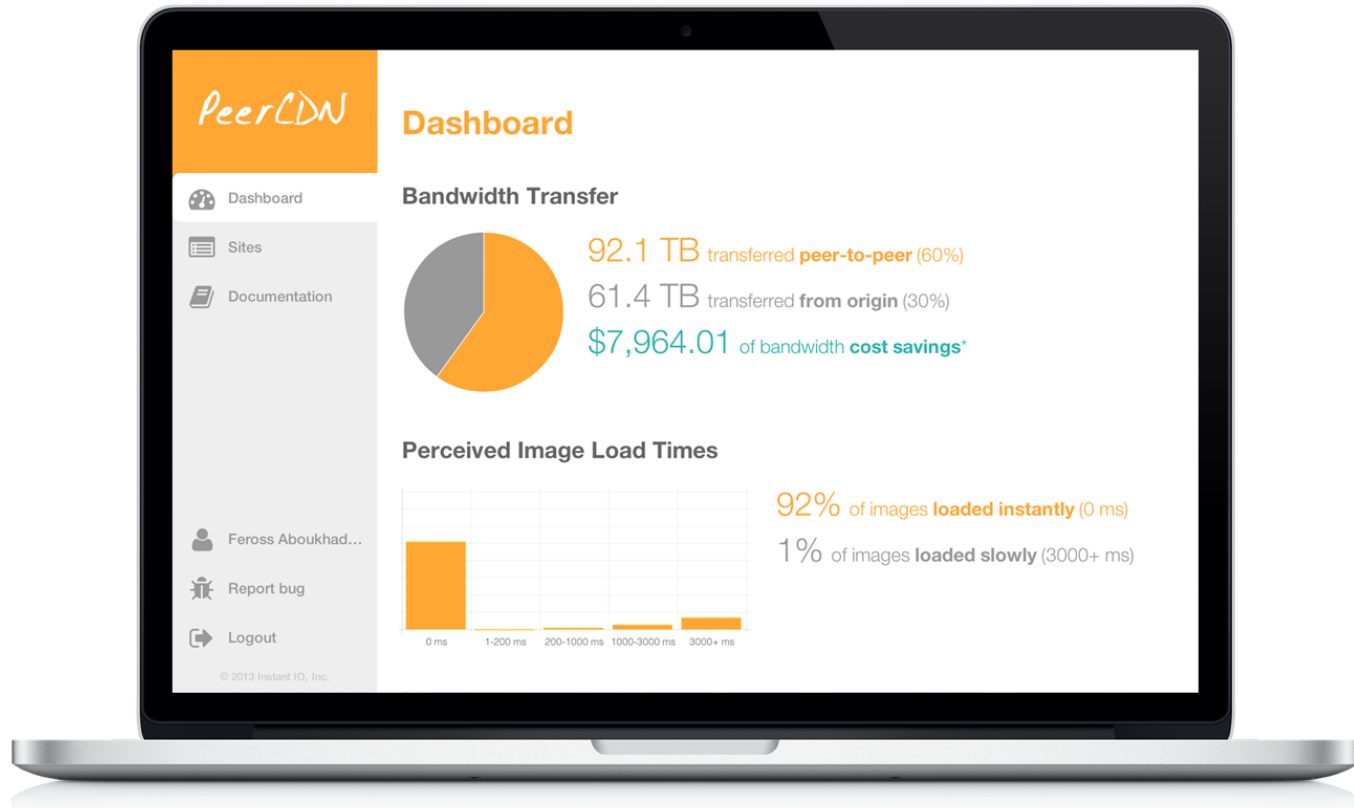


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# PeerCDN

<https://peercdn.com/>

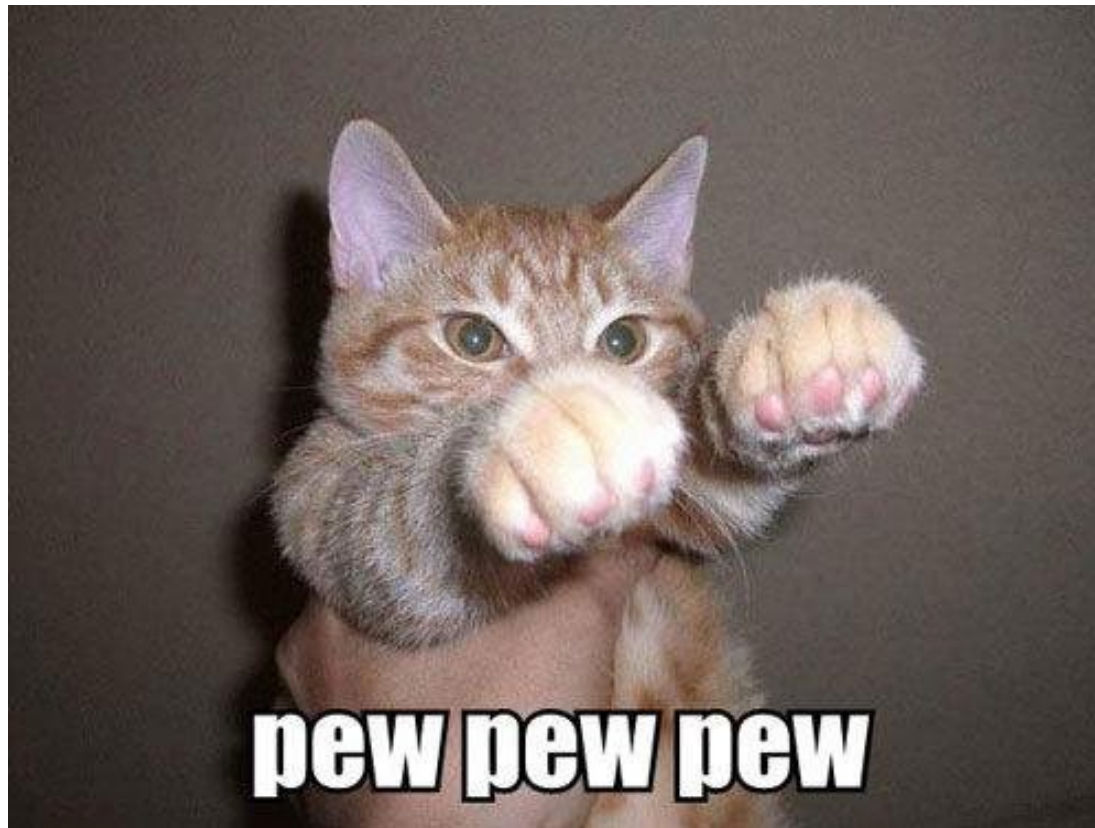


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# Sharefest

<https://sharefest.me>



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# Cubeslam

<https://www.cubeslam.com>

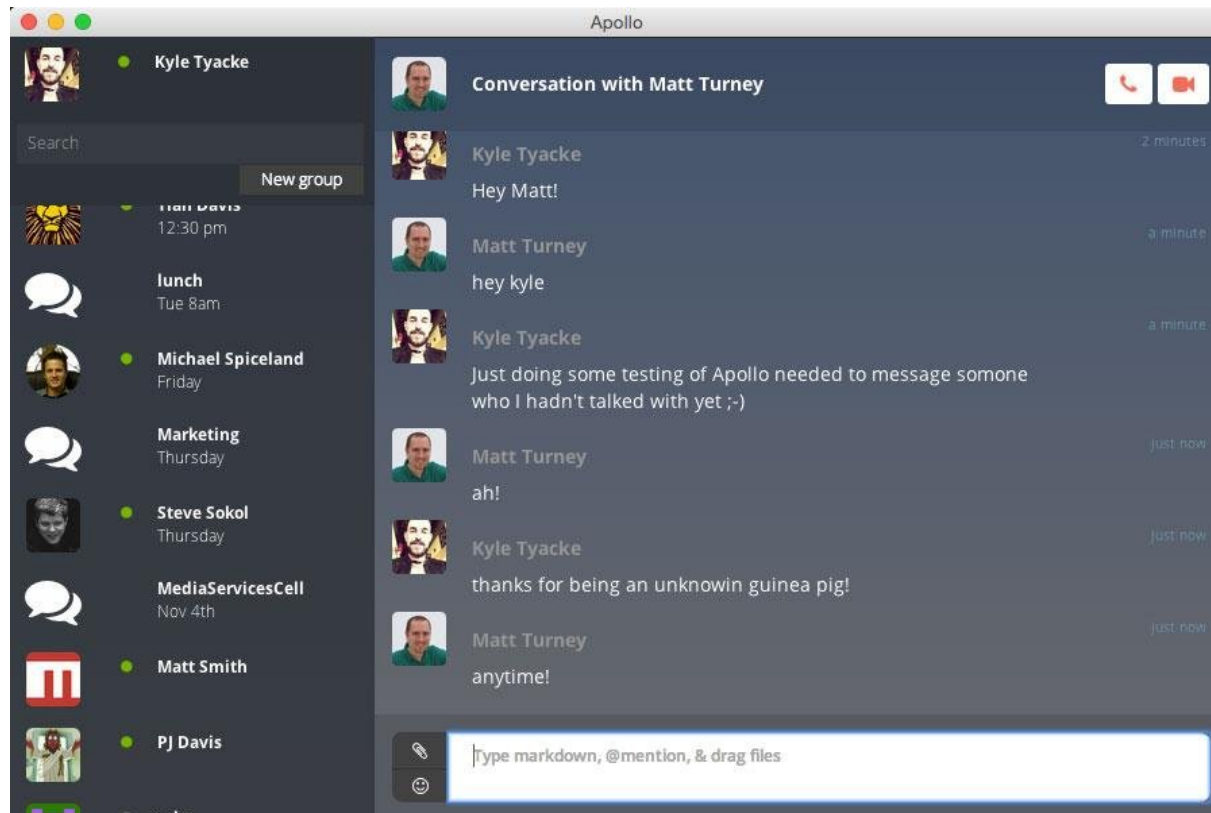


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# Apollo

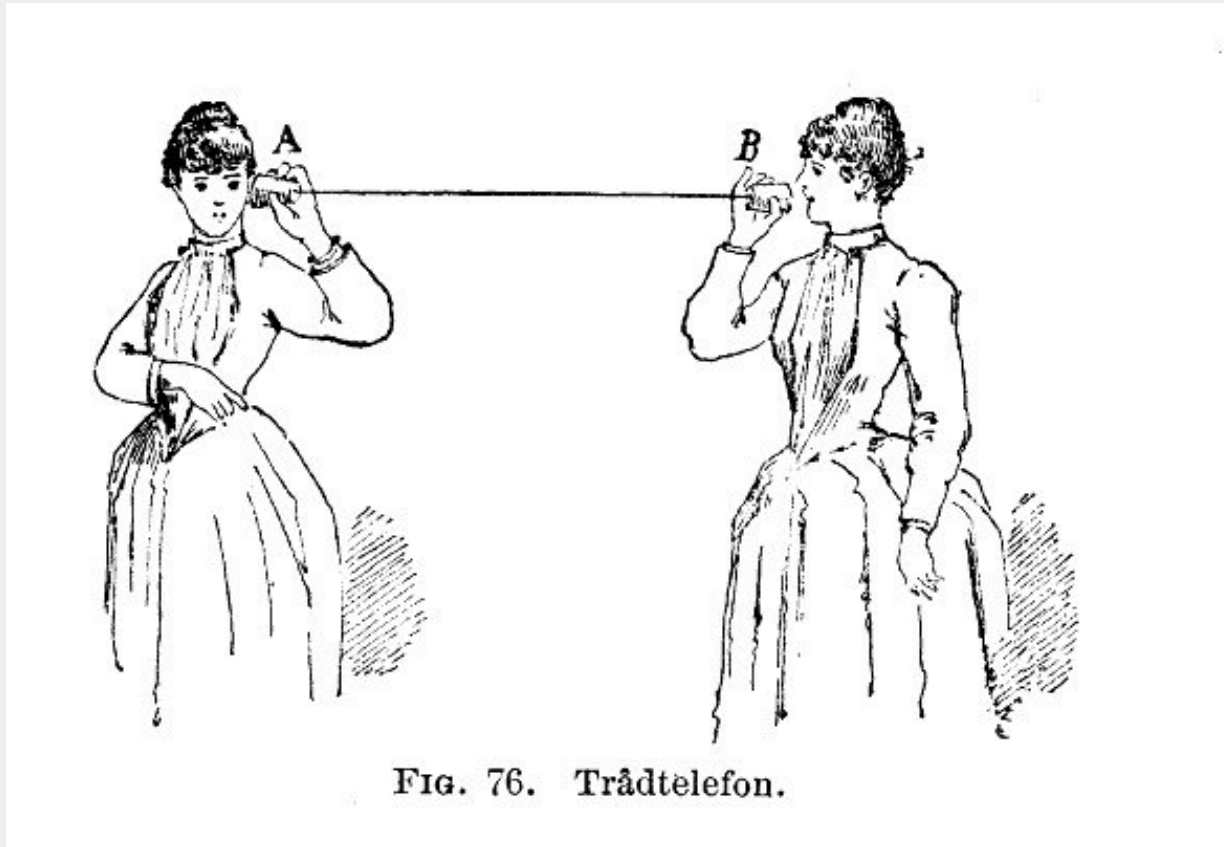
<https://github.com/respoke/apollo>



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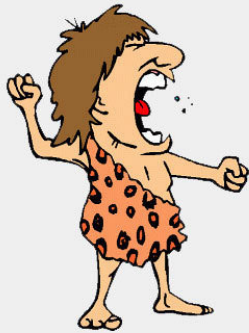
# How Does WebRTC Work?



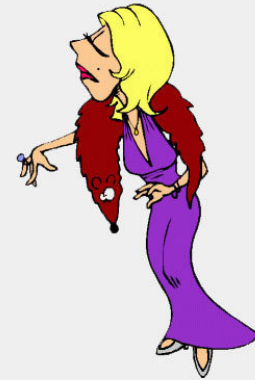
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# When Bob Met Alice

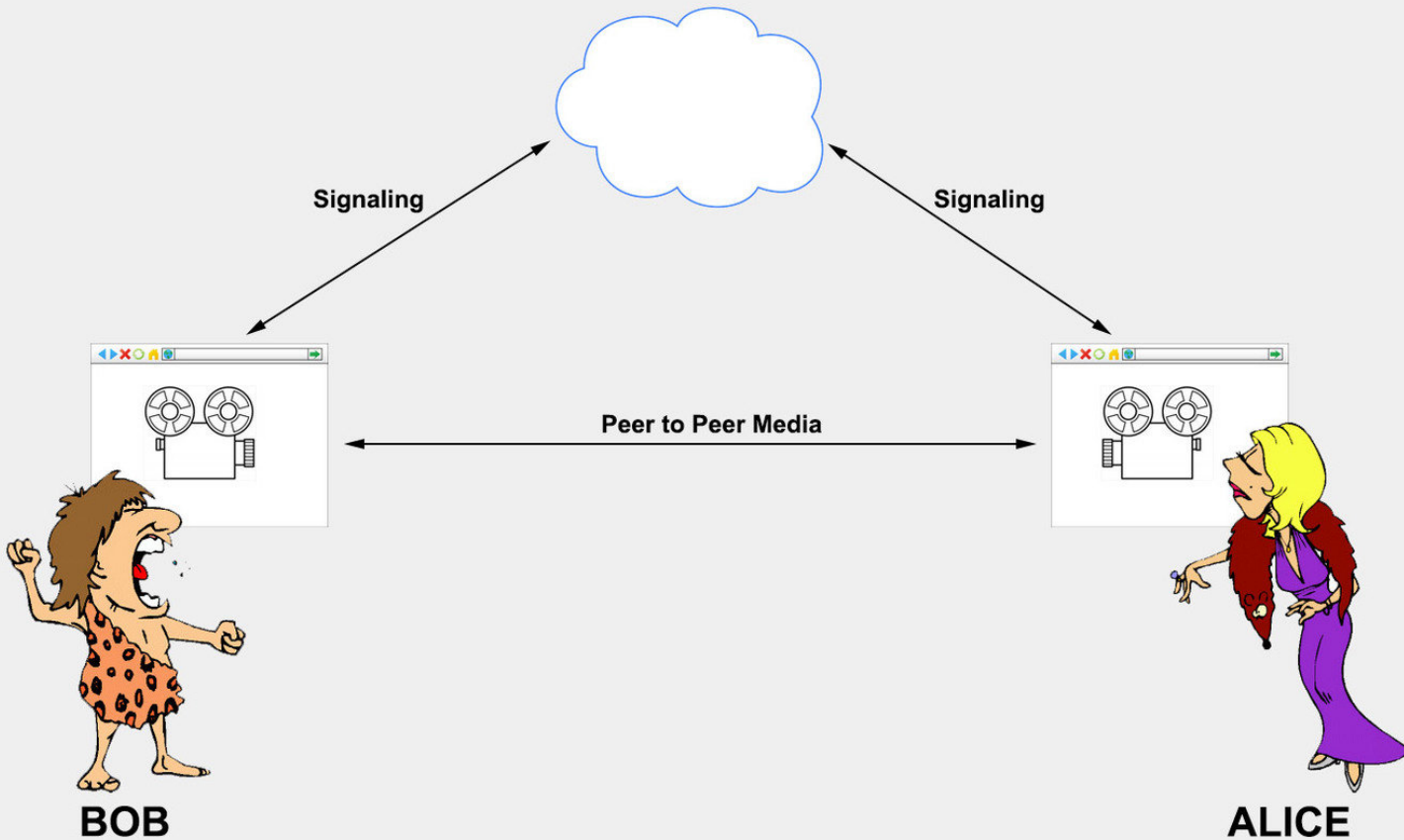


**BOB**



**ALICE**

# An Ideal World!

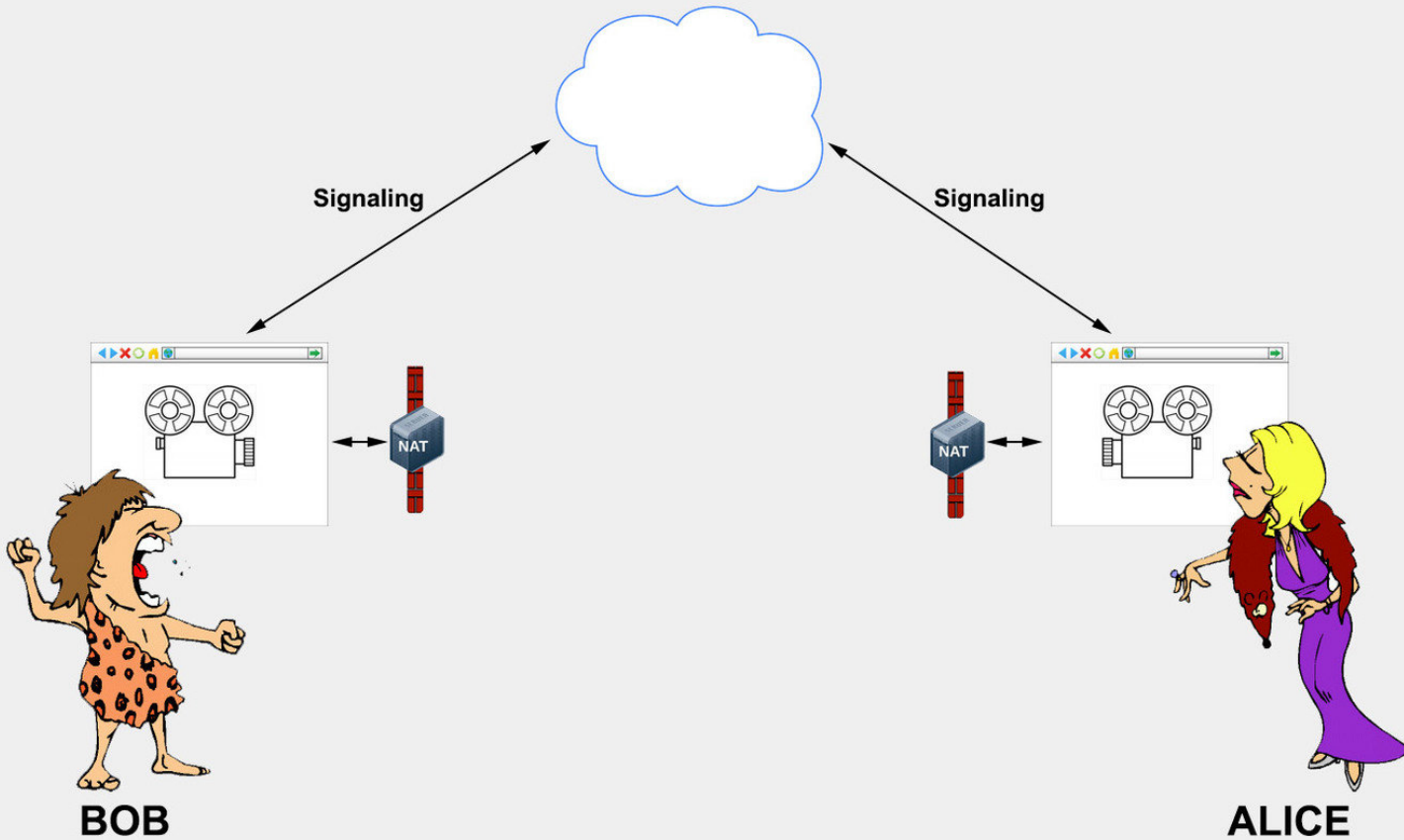


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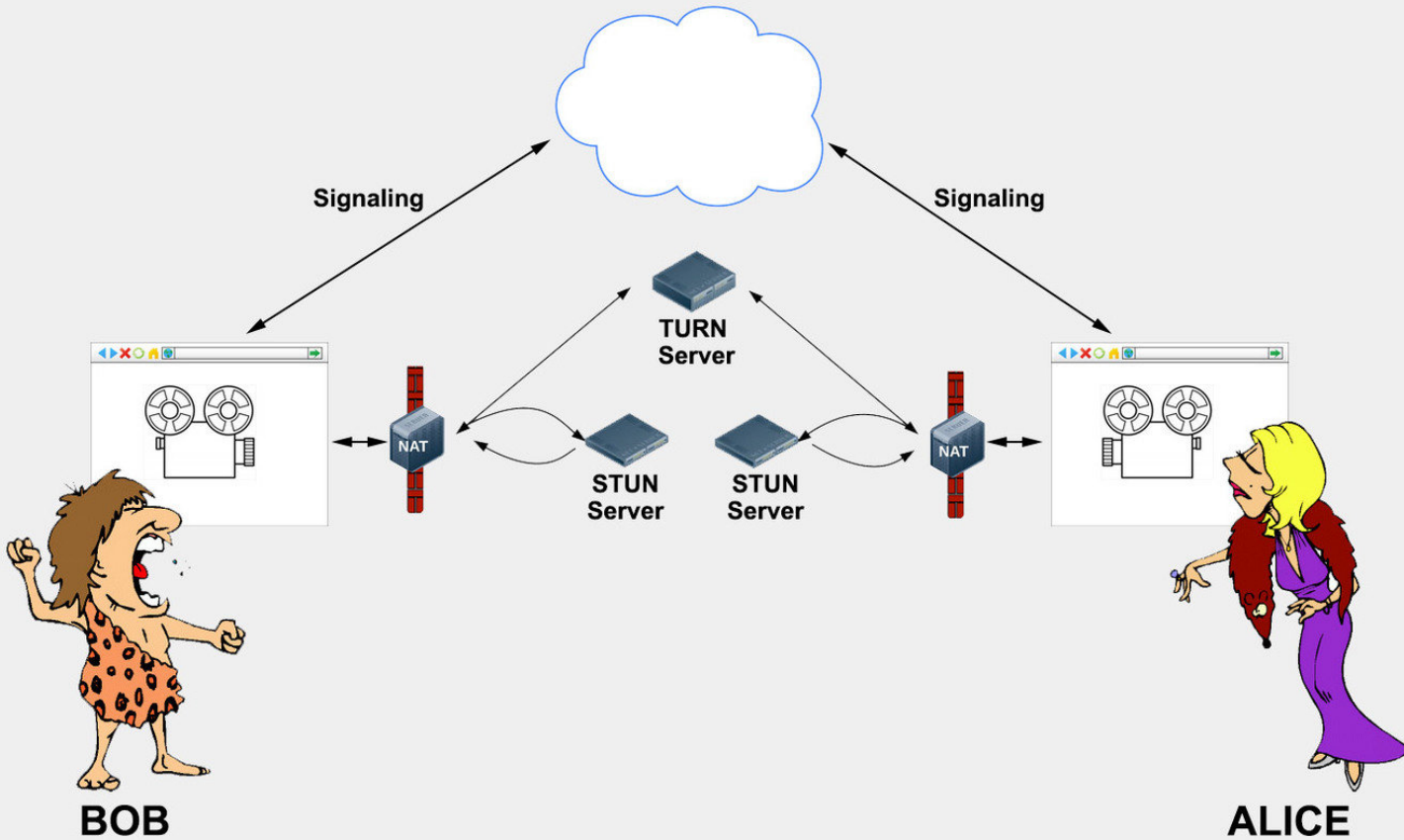
# The Real World...



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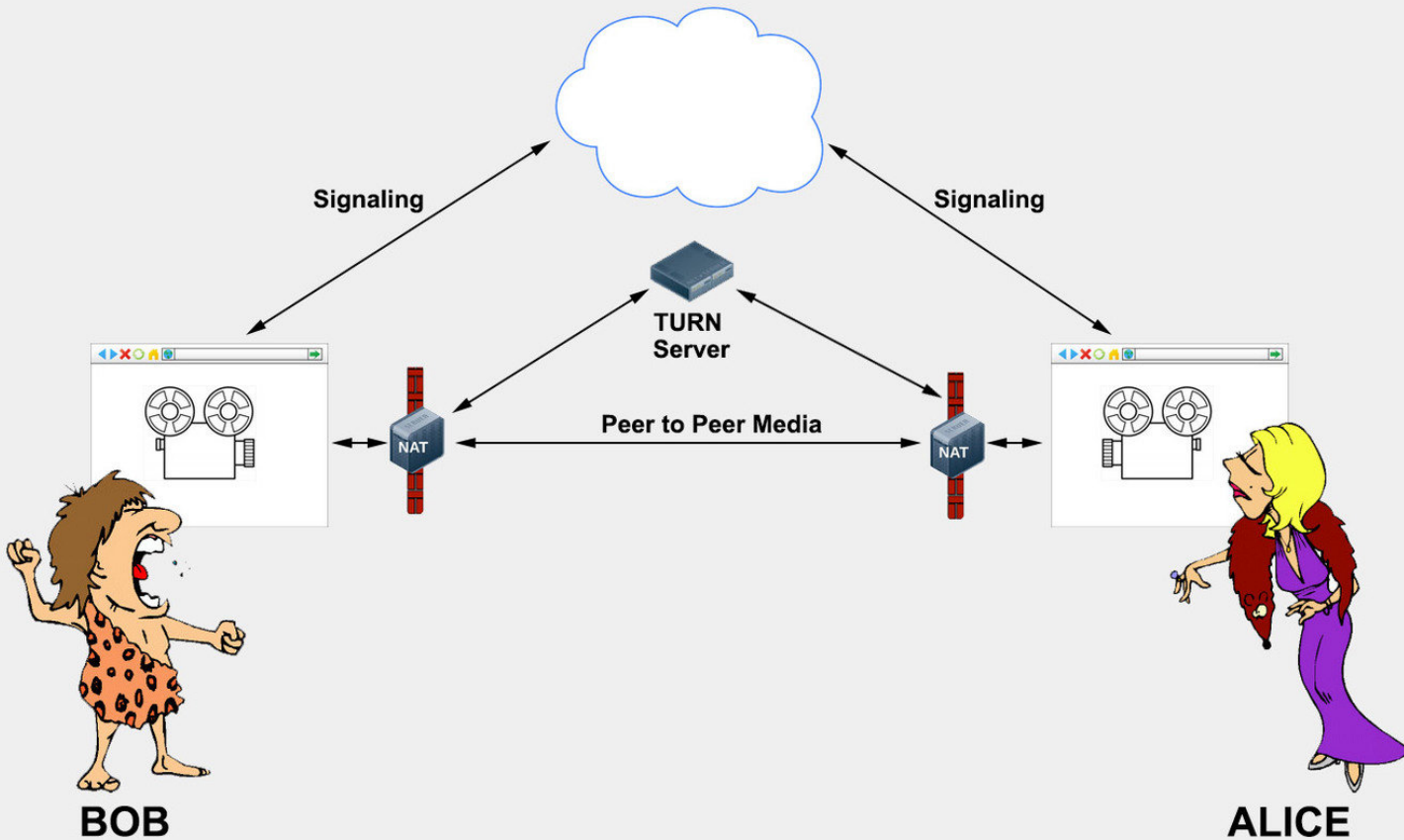
# ICE, ICE, Baby



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# The Complete Connection



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# Simple Right?

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respoke

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# Respoke?

**A set of API's that gives developers the ability to easily add real-time communication to their applications.**

# Like WebRTC?



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# Sort of...

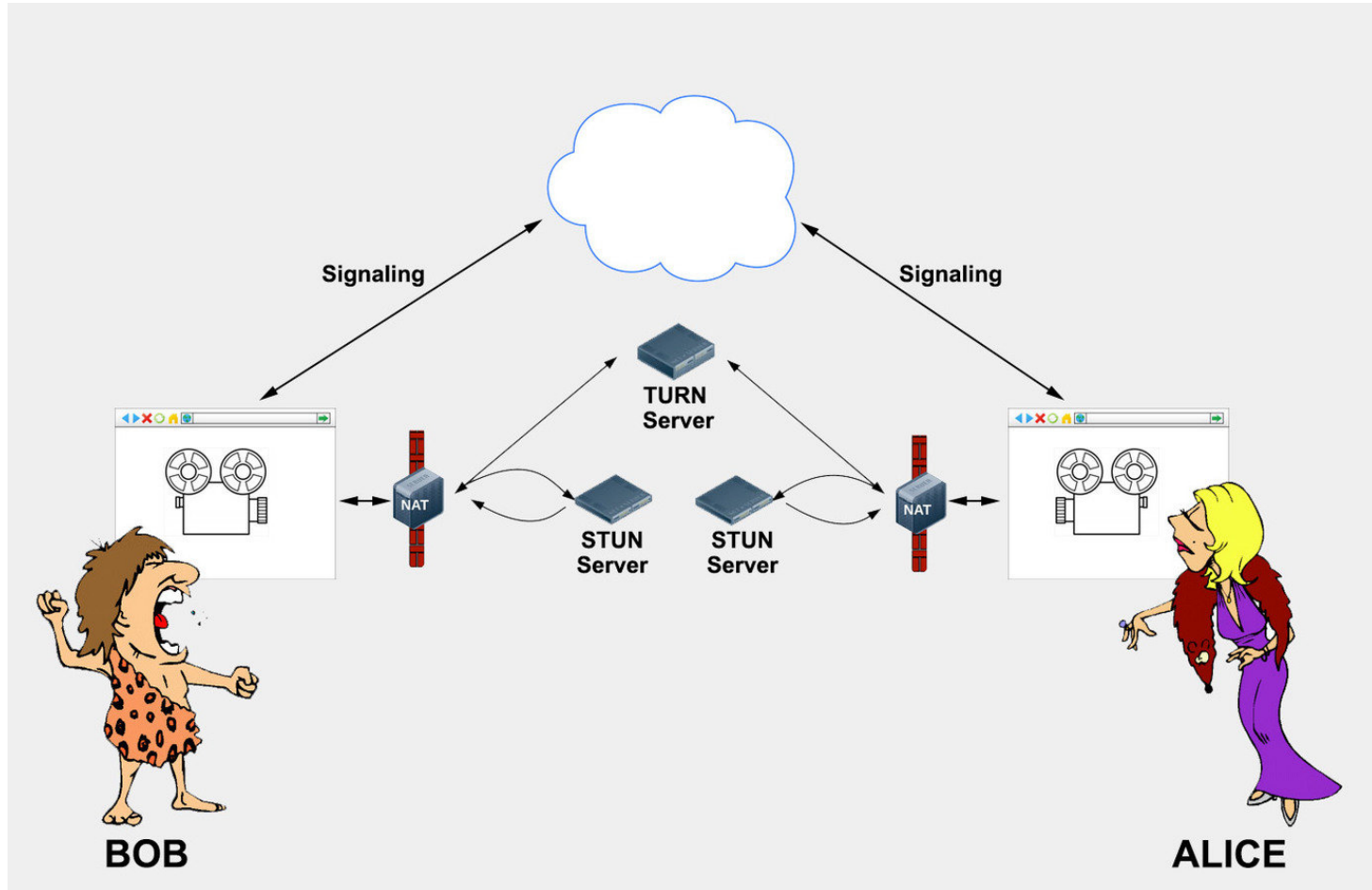


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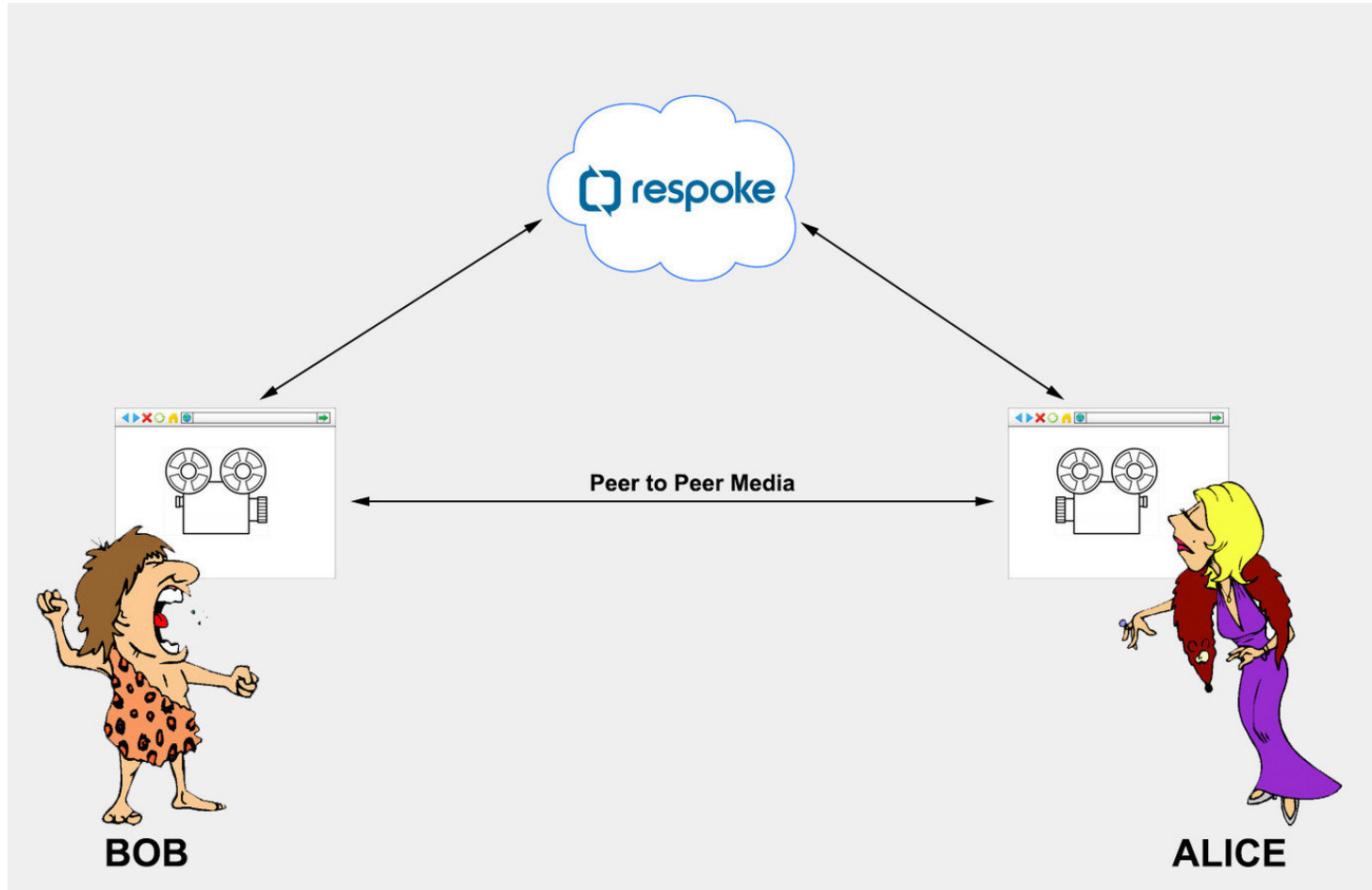


# Remember This?



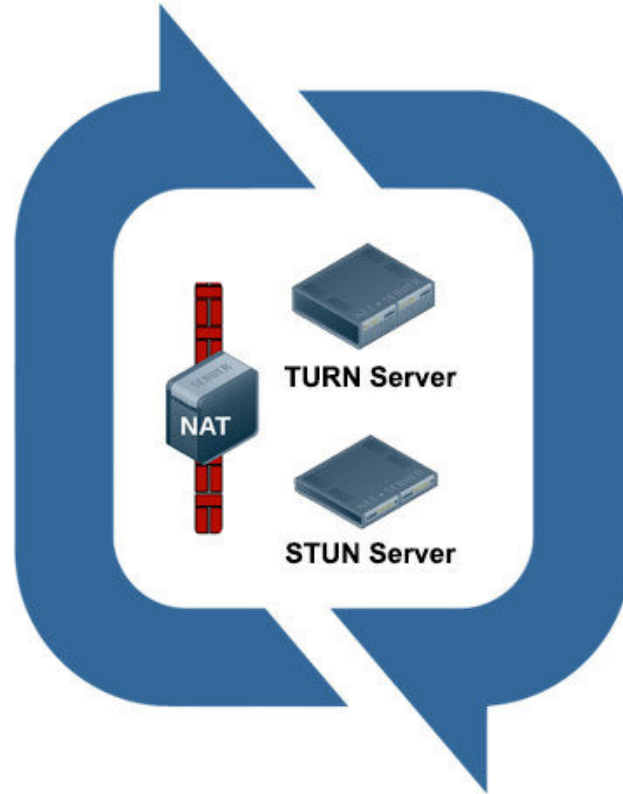
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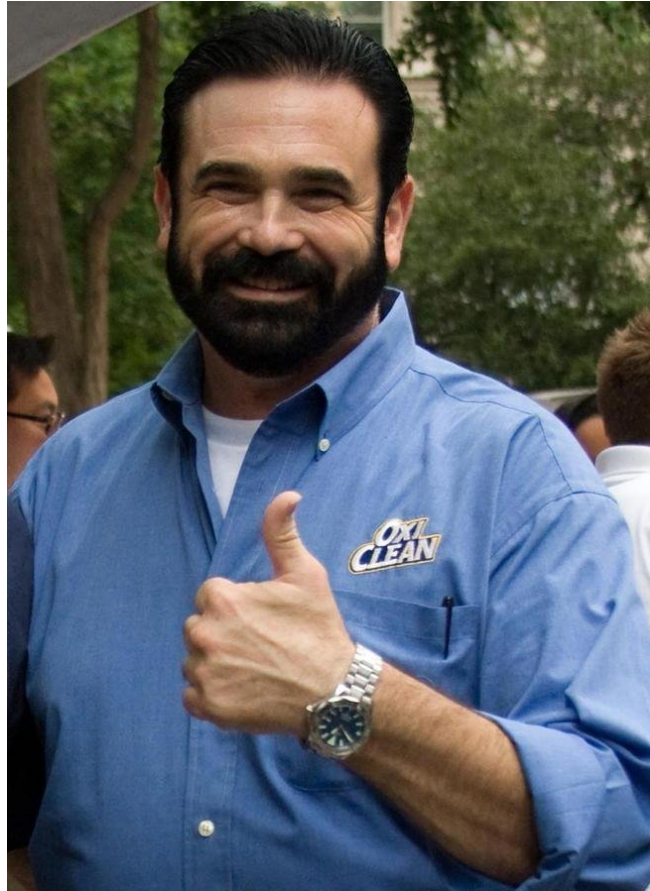
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# But Wait! There's More...



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**Open Source**

**Cross-browser Support**

**Endpoint Discovery**

**Endpoint Messaging**

**Groups**

**Presence**

**Phone System Support**

**Mobile SDKs**

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**<CODE/>**

**Create a Respoke  
Account  
[www.respoke.io](http://www.respoke.io)**

# Connecting to Respoke

<http://goo.gl/fajmx8>

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```
// App ID value from the dev portal. You can play
// around with the supplied ID or replace it with
// your own.
var appid = "b4931d40-ff2b-4c46-8487-bf955a75501d";
var endpointId;

// Create the client object using the App ID
var client = respoke.createClient({
  appId: appid,
  developmentMode: true
});

// "connect" event fired after successful connection to Respoke
client.listen('connect', function() {
  $("#status").html("Connected to Respoke as \"" + endpointId + "\"");
});

// Connect to Respoke when the user clicks "connect"
$("#doLogin").click(function() {
  // Update the status message
  $("#status").html("Connecting...");

  // Grab our username
  endpointId = $("#endpoint").val();

  // Connect to Respoke
  client.connect({
    endpointId: endpointId
  });
});
```

# Messaging

<http://goo.gl/vq8XCy>

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```
// Listen for incoming messages
client.listen('message', function(evt) {
    $("#messages").append(
        "<li>" + evt.message.message + "</li>"
    );
});

// Send message
$("#sendMessage").click(function() {
    // Get the recipients name
    var remote = $("#remoteId").val();

    // Make an endpoint for that recipient
    var endpoint = client.getEndpoint({
        id: remote
    });

    // Grab the text to send
    var messageText = $("#textToSend").val();

    // Send it
    endpoint.sendMessage({
        message: messageText
    });

    // Show yourself the message
    $("#messages").append(
        "<li>" + messageText + "</li>"
    );

    // Clear the text you just sent
    $("#textToSend").val('');
});
```

# Group Messaging

<http://goo.gl/DNxVuc>

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```
<!DOCTYPE html>

<head>
  <title>Respoke - Group Messaging Example</title>

  <!-- Respoke client library -->
  <script src="https://cdn.respoke.io/respoke.min.js"></script>

  <!-- jQuery, for this example -->
  <script src="http://code.jquery.com/jquery-1.11.0.min.js"></script>

  <!-- Some simple styles to make things pretty -->
  <link rel="stylesheet" type="text/css" href="style.css">
  </style>
</head>

<body>
  <h3 id="status">Not Connected to Respoke</h3>
  <h3 id="groupStatus">Not Connected to Group</h3>
  <div id="login">
    <input id="endpoint" placeholder="Username" type="text" />
    <button id="doLogin">Connect</button>
  </div>

  <div id="messaging">
    <ul id="messages"></ul>
    <br />
    <textarea id="groupMsg" placeholder="Message to Send" rows="4"></textarea>
    <br />
    <button id='sendMessage'>Message Group</button>
    <button id='leaveGroup'>Leave Group</button>
  </div>

  <script type="text/javascript">
```

# Video Calling

<http://goo.gl/m4tZwX>

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```
// The options for our video call including constraints and callbacks
var callOptions = {
  constraints: {
    audio: true,
    video: true
  },

  // Your video
  onLocalMedia: function(evt) {
    setVideo('localVideoSource', evt.element)
  },

  // Their video
  onConnect: function(evt) {
    setVideo('remoteVideoSource', evt.element)
  }
};

// Listen for incoming calls
client.listen('call', function(evt) {
  activeCall = evt.call;

  // We only want to answer if we didn't initiate the call
  if (activeCall.caller !== true) {
    activeCall.answer(callOptions);

    // The hangup event indicates the call is over
    activeCall.listen('hangup', function() {
      hangUp();
    });
  }
});

// Call the recipient
$("#doCall").click(function() {
```

# Screen Sharing

<http://goo.gl/2p0J3A>

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```
<!DOCTYPE html>

<head>
  <title>Respoke - Screensharing Example</title>

  <!-- Respoke client library -->
  <!-- <script src="https://cdn.respoke.io/respoke.min.js"></script> -->
  <script src="https://cdn.respoke.io/respoke.min.js"></script>

  <!-- jQuery, note that we are loading over HTTPS from google's CDN -->
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/2.1.3/jquery.min.js"></script>

  <!-- Some simple styles to make things perty -->
  <link rel="stylesheet" type="text/css" href="style.css">

  <!-- Chrome screensharing extension -->
  <link rel="chrome-webstore-item" href="https://chrome.google.com/webstore/detail/lefkijobr
</head>

<body>
  <h3 id="status">Not Connected</h3>
  <h4 id="sharing"></h4>
  <div id="login">
    <input id="endpoint" placeholder="Username" type="text" />
    <button id="doLogin">Connect</button>
  </div>

  <div>
    <input id="remoteId" placeholder="User to Call" type="text" />
    <button id="doStartScreenShare">Share Screen</button>
    <button id="doStopScreenShare">Stop Sharing</button>
  </div>

  <!-- Video object to attach the stream to -->
  <video id="localVideoElement"></video>
```

# Docs and Additional Examples

<https://docs.respoke.io/>

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# What's It All Mean?

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# Faster Development

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# Better User Experience

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# Happy Bosses



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# Happy ~~Bosses~~ Users!



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**Communication  
should be a *feature*,  
not a *product*...**



# Kyle Tyacke



**ktyacke@respoke.io**



**@geekgonenomad**



**www.respoke.io**

## Examples and Source

<http://ktyacke.github.io/respoke-webrtc-presos/>