

BigBlueButton Summit XII

HTML5 Client


April 23 - 27, 2018
Toronto, Canada

WebRTC media: webcams and screen sharing

- Stability and stream quality



Recording on/off

 random-5462536 | ● Not recording


Welcome to BigBlueButton

BigBlueButton is an open source web conferencing system for on-line learning.


Click the images on the right to view tutorial videos for instructors and students.

If you need help with your audio, watch [setting up audio](#).


To view more tutorial videos, along with information on the open source project, visit [bigbluebutton.org](#).





Moderator / Presenter







Viewer

 Upload a presentation

 Start recording



 Slide 1 



Recording on/off

The screenshot displays the BigBlueButton interface during a recorded session. At the top, the session ID 'random-5462536' and a red 'Recording' indicator are visible. A notification in the top right corner states 'This session is now being recorded'. The main content area is split into two panes. The left pane, titled 'Welcome to BigBlueButton', provides introductory text and links to tutorial videos and audio setup instructions. The right pane shows a presentation with two slides: 'Instrument Flying Groundschool' and 'Requirements'. The 'Requirements' slide lists items like A LODS chart, A Canada Air Pilot Book, and A Canada Flight Supplement. On the right side of the interface, a vertical toolbar contains icons for annotation, eraser, highlighter, and other tools. At the bottom, a control bar includes a plus icon, a 'Stop recording' button, and navigation controls for the presentation slides.

random-5462536 | Recording

This session is now being recorded

Welcome to BigBlueButton

BigBlueButton is an open source web conferencing system for on-line learning.

Click the images on the right to view tutorial videos for instructors and students.

If you need help with your audio, watch [setting up audio](#).

To view more tutorial videos, along with information on the open source project, visit bigbluebutton.org.

Instrument Flying Groundschool

Introduction and Overview

Chris Robble
Jean Rene du Cretet

Requirements

You will need:

- ✓ A LODS chart
- ✓ A Canada Air Pilot Book
- ✓ A Canada Air Pilot Book General Pages
- ✓ A Canada Flight Supplement
- ✓ A copy of the Instrument Workbook

All of these need to be up-to-date.

Upload a presentation

Stop recording

Slide 1

HTML5 recordings: webcams and screen-sharing

MESSAGES

Public Chat

USERS (2)

- Lucas (You)
- Paulo Ralph Lauren

Public Chat

Welcome to **Demo Meeting!**

This server is running [BigBlueButton](#).

Lucas 11:39 AM
This is my presentation folks
Looks good right?
This meeting is being recorded

Paulo Ralph Lauren 11:39 AM
pretty good

Message Public Chat

Project 1 | **Recording**

Lucas

Paulo Ralph Lauren

Ruby + Gosu + OpenGL

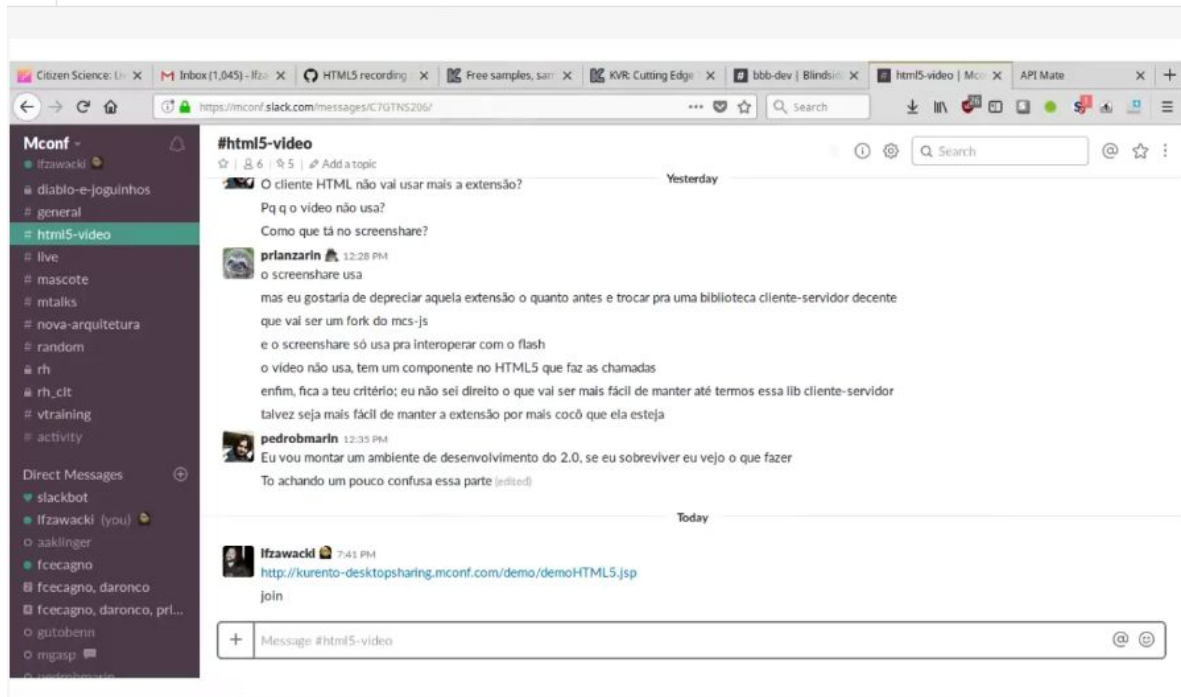
OSC

ChuckK

Slide 5

HTML5 recording: webcams and screen-sharing

≡ Demo Meeting

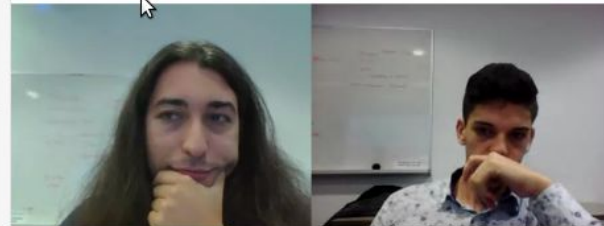


The screenshot shows a Slack interface with a browser window in the background. The browser tabs include 'Citizen Science: U...', 'Inbox (1,045) - Itz...', 'HTML5 recording', 'Free samples, sar...', 'KVR: Cutting Edge', 'libb-dev | Blinds...', 'html5-video | M...', and 'API Mate'. The address bar shows 'https://mconf.slack.com/messages/C7GTNS206/'. The Slack sidebar on the left lists channels like '#general', '#html5-video', '#live', '#mascote', '#mtalks', '#nova-arquitetura', '#random', '#rh', '#rh_cit', '#vtrailing', and '#activity'. The main chat area shows a conversation in the '#html5-video' channel. The header of the chat area says '#html5-video' with 6 members and an 'Add a topic' link. The messages are as follows:

- Yesterday**
 - A message: "O cliente HTML não vai usar mais a extensão?"
 - A reply: "Pq q o video não usa?"
 - A reply: "Como que tá no screenshare?"
 - A message from **prlanzarin** at 12:28 PM: "o screenshare usa mas eu gostaria de deprecia aquela extensão o quanto antes e trocar pra uma biblioteca cliente-servidor decente que vai ser um fork do mcs-js e o screenshare só usa pra interoperar com o flash o video não usa, tem um componente no HTML5 que faz as chamadas enfim, fica a teu critério; eu não sei direito o que vai ser mais fácil de manter até termos essa lib cliente-servidor talvez seja mais fácil de manter a extensão por mais coço que ela esteja"
 - A message from **pedrobmarin** at 12:35 PM: "Eu vou montar um ambiente de desenvolvimento do 2.0, se eu sobreviver eu vejo o que fazer To achando um pouco confusa essa parte (edited)"
- Today**
 - A message from **lfzawacki** at 7:41 PM: "[http://kurento-desktopsharing.mconf.com/demo/demoHTML5.jsp](\"http://kurento-desktopsharing.mconf.com/demo/demoHTML5.jsp\") join"

The message input field at the bottom shows '+ Message #html5-video'.

Recorded with [BigBlueButton](#). Use [Mozilla Firefox](#) or [Google Chrome](#) to play this recording.



WebRTC video statistics

Connection Stats

Packets sent: 1537
Packets lost: 0
Total percentage lost: 0.0%
Recent percentage lost: 0.0%
Bitrate: 454 bits/sec
Dimensions: 640x480
Codec: VP8
RTT: 13ms
Encode usage: 23%

Augusto ▾

Connection Stats

Packets received: 328
Packets lost: 0
Total percentage lost: 0.0%
Recent percentage lost: 0.0%
Bitrate: 269 bits/sec
Dimensions: 640x480
Decode delay: 2ms
Codec: VP8
Current delay: 43ms

Paulo ▾

Webcam swap slide

MESSAGES

Public Chat

Ti Tiago

USERS (4)

Ti Tiago

An Anton

Jo João

Os Oswaldo Acauan ...

< Public Chat

Welcome to **Webcam Swap!**

For help on using BigBlueButton see these (short) [tutorial videos](#).

To join the audio bridge click the phone button. Use a headset to avoid causing background noise for others.

This server is running [BigBlueButton](#).

Os **Oswaldo Acauan** 11:28 AM
Hello!

An **Anton** 11:28 AM
Hey!

Message Public Chat

▶

Webcam Swap

Tiago

Anton

João

Oswaldo Acauan

Welcome to BigBlueButton

BigBlueButton is an open source web conferencing solution that allows you to share content, chat, and collaborate with others in real time. It is a free and open source software project that is used by many organizations around the world.

For more information, please visit the BigBlueButton website at [http://bigbluebutton.org](#).

BigBlueButton is a free and open source software project that is used by many organizations around the world.

For more information, please visit the BigBlueButton website at [http://bigbluebutton.org](#).

📞

🔇

👋

Webcam/Screenshare data saving slide

Settings

Cancel

Save

 Application

 Closed Captions

 **Data Savings**

Data Savings

To save your bandwidth adjust what's currently being displayed.

Enable Webcams



Enable Desktop Sharing



Stress Testing

- Large number of users (headless Chrome)
- High-frequency drawing

Accessibility



Improvements to Mobile Screen Reader
Functionality

Android: TalkBack

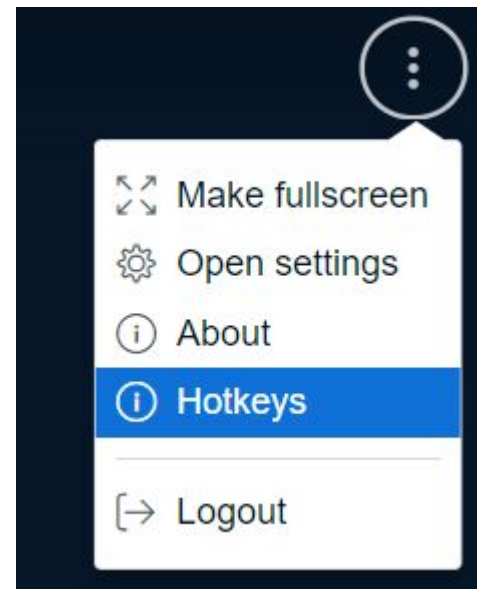
IOS: VoiceOver

Demo : <https://www.youtube.com/watch?v=THj-XeohFP8>

Access Keys

The operation to activate the Hotkeys depends on the browser and its platform.

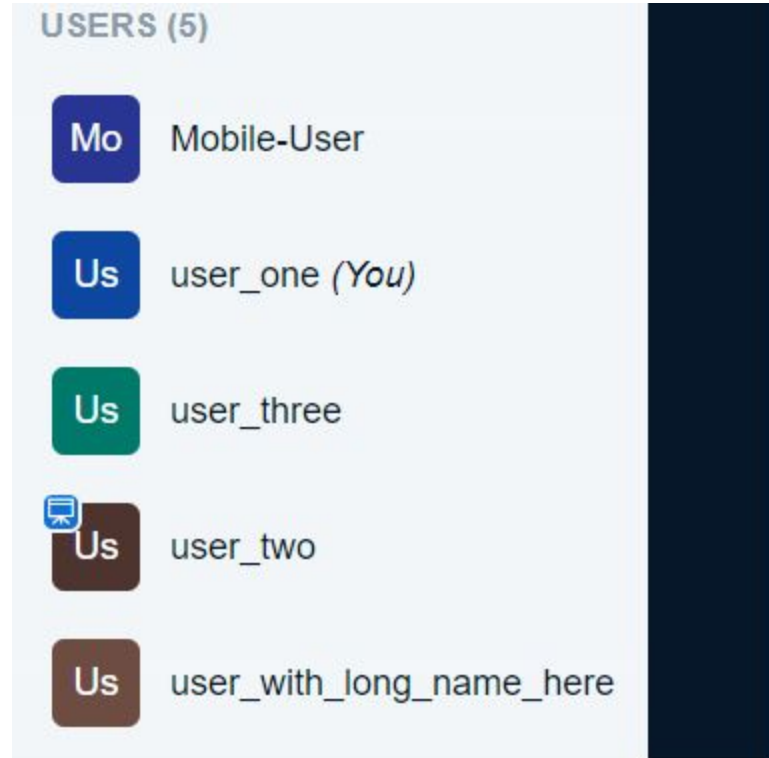
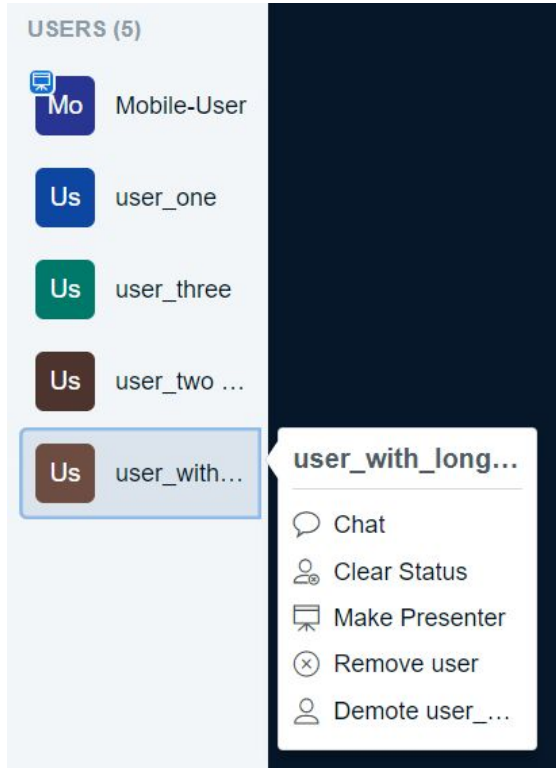
Browser	Windows	Linux	Mac
Internet Explorer	Alt		
Chrome	Alt	Alt	Control + Alt
Firefox	Alt + Shift	Alt + Shift	Control + Alt
Safari	Alt		Control + Alt



Access Keys Continued

Combo	Function
Access Key + O	Open Options
Access Key + U	Toggle UserList
Access Key + M	Mute / Unmute
Access Key + J	Join Audio
Access Key + L	Leave Audio
Access Key + P	Toggle Public Chat (UserList must be open)
Access Key + H	Hide Private Chat
Access Key + G	Close Private Chat
Access Key + A	Open Actions Menu
Access Key + S	Open Status Menu

Visual Accessibility Improvements



Links and next steps

www.test.bigbluebutton.org - Try the latest version of HTML5 client (updated soon!)

www.docs.bigbluebutton.org/html/html5-install.html - Install on your server

<https://github.com/bigbluebutton/bigbluebutton/tree/v2.0.x-release> - Pull the latest code and build the client