

Synote Second Screening Using Mobile Devices for Video Annotation and Control

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Multimedia

Text can reduce the memory demands of spoken language

Speech can better express subtle emotions

Images can communicate moods, relationships and complex information holistically.

Multimedia



320 x 240 ▾

Play Rewind Pause Stop

Transcript

welcome to this brief interactive guide to using Synote
What is Synote
well it's a unique web based application
that allows you to create Synmarks
which are synchronised Bookmarks and in those
Synmarks you can put
notes or tags which you can synchronise with a recording
of audio or video
and also with a transcript of what is said in that recording
and any slides and images and that is very powerful
because it allows you to find parts of the recordings and
replay parts of the recordings in a variety of flexible ways

... what's special about this software are call Synote

Autoscroll is On Highlight Synmarks Off ▾

Refresh Edit

Synmarks

Start	End	Title	Note
0:31		web based	
0:34		idea of synmarks	tags, notes. Quite a lot of info and ideas can be typed in this area, including HTML code - wraps.
1:56	2:56	Taking notes	also if it's an educational recording a lecture or a multimedia web presentation and you w processor but the problem is it's very difficult to take notes which bits are important how understand what they meant it's very difficult to go back to the original recording and find
2:32		new note!	It is a very useful application for taking notes!
4:08		Email us your comments	

Autoscroll is On Full view is On Mine only is Off Chasing is Off

Presentation

synote is a web based
application that allows you to create
synchronised bookmarks or
'Synmarks' that can contain notes and
tags synchronised with audio or video
recordings, transcripts and
slides/images and can be used to find
and replay parts of the recordings

While other software ma
bookmark, search, link to
WHOLE of a web based
recording.

ONLY **synote**

allows you to easily find,
notes or resources with,
recording.

As an analogy, you woul
text book difficult to use
contents page, index or p

Autoscroll is On

PANOPTO

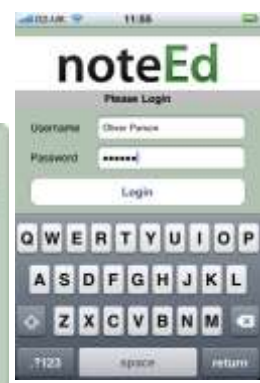


Blackboard



audacity 2010

synote



Easy to find *WHOLE* of recording but
NOT a *PART*

Analogy

Text book with front cover but no
contents page, index or page numbers

del.icio.us

url

description

notes

tags

space
separated

save

YouTube - Broadcast Yourself. - Windows Internet Explorer

http://www.youtube.com/

File Edit View Favorites Tools Help

Google G Go Bookmarks Check AutoLink AutoFill Send to Settings del.icio.us TAG

YouTube - Broadcast Yourself.

Sign Up QuickList (0) Help Log In Site

YouTube Broadcast Yourself™

Home Videos Channels Community

Videos Search advanced Upload

Videos being watched right now

Promoted Videos

Featured Videos See More Featured Videos

Featured Most Viewed Most Discussed Top Favorites

Pop Waffle Vol. 16: Stuff People Watch

Giant NES controller coffee table

King of the Bounce: Final Match

Login

Username: Password:

Internet 100%


Search Results


■ IBM Data Project Guidelines: Clip 2


IBM Data Project Guidelines: Clip 2


Tags: IBM Data Project uncompressed pcm

Note: Describes how to get ViaScribe 2.37 to save audio in IBM's preferred data format (uncompressed PCM WAV; 22,050 Hz; 16 bit; Mono). Also covers the folder and file naming convention recommended for this project.


 hello this is Heather Martin[®] from the Liberated Learning Consortium at Saint Mary's University and this video presentation is meant to illustrate one of the procedures from the **IBM** acoustic model


 to record audio in the required format for **IBM** in ViaScribe 2.37 so we'll just skip the introductory

 normally would so we'll fire up ViaScribe for the purpose of the **IBM** data collection project

 and that's it for this video we've created an uncompressed PCM audio file in **IBM** ViaScribe

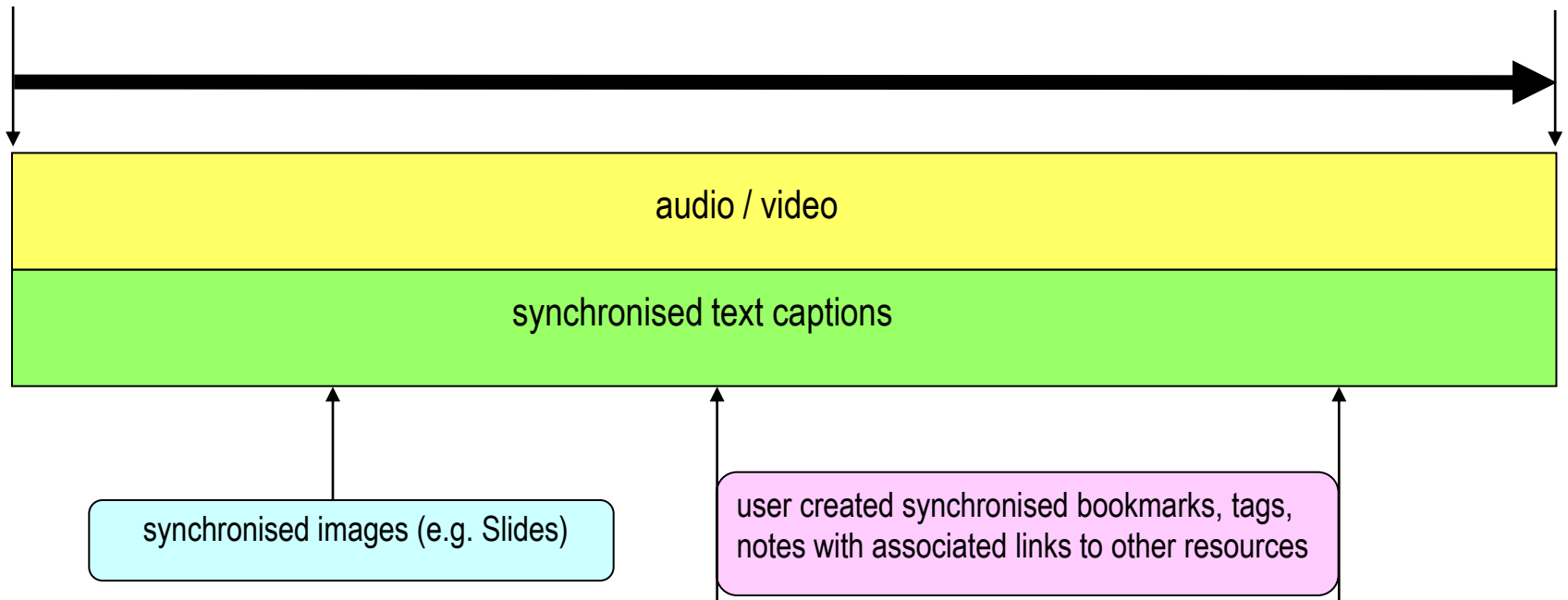
■ INFO6002 ViaScribe SR and Second Life

 the Liberated Learning consortium is currently investigating the potential of speech recognition technology to make virtual worlds more accessible this video demonstrates a proof of concept bridge connecting **IBM** ViaScribe to a popular virtual world called Second Life in Second Life users create an online persona or avatar to explore the three-dimensional virtual environment and interact

 reasons as I'll explain later once you have pasted the channel name click connect Next start **IBM**

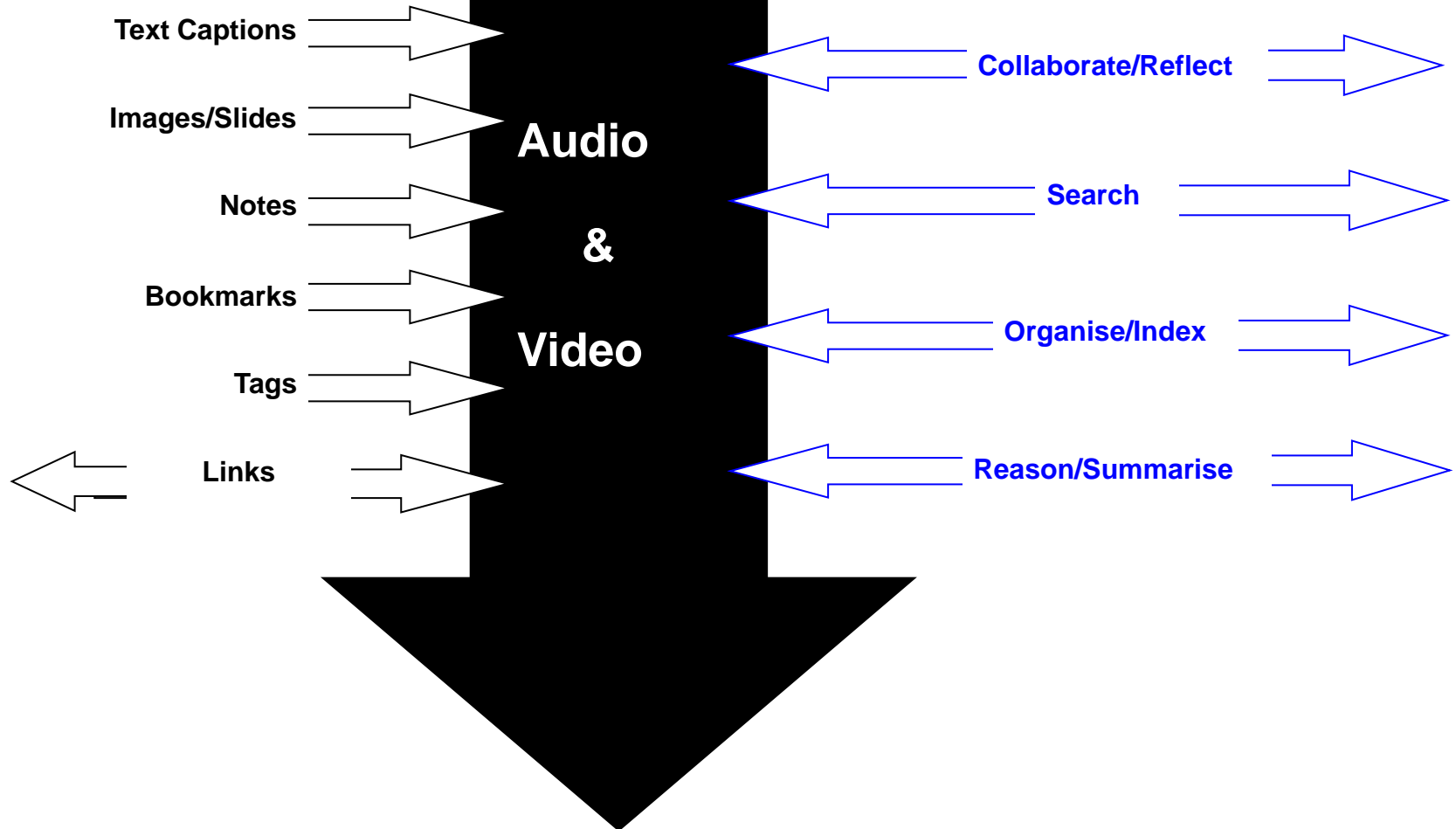
multimedia start time

multimedia end time



Multimedia

Synchronised



Synmark



ID:

Start:

6:56

End:

7:08

Title:

This is a title

This is the text of the note



Tags:

revise

Next:

37

Create

Cancel

multimedia

[0:08] presentation - Slide 1

Annotating Multimedia for Community Folksonomy and Ontology Building

**Learning Societies Lab
School of Electronics & Computer Science
University of Southampton**

[0:12] Hello
I'm going to talk to you
about

[0:20 - 1:50] Synmark (4)
testing
mike

[0:20] an idea we've got
and we've called it *annotating multimedia*
for *community folksonomy* and *ontology building*
and we're the Learning Society lab at the School of Electronics and Computer Science at the University of Southampton
now
you'll be listening to

Using Twitter to Take Notes for Synote



Search



Search Help

Get Tweets

Multimedia Title: Synote Guide

Twitter Username:

Start Time of Recording: 21 January 2010 12 : 47

Start Time of Tweets: 21 January 2010 12 : 47

End Time of Tweets: 21 January 2010 12 : 47

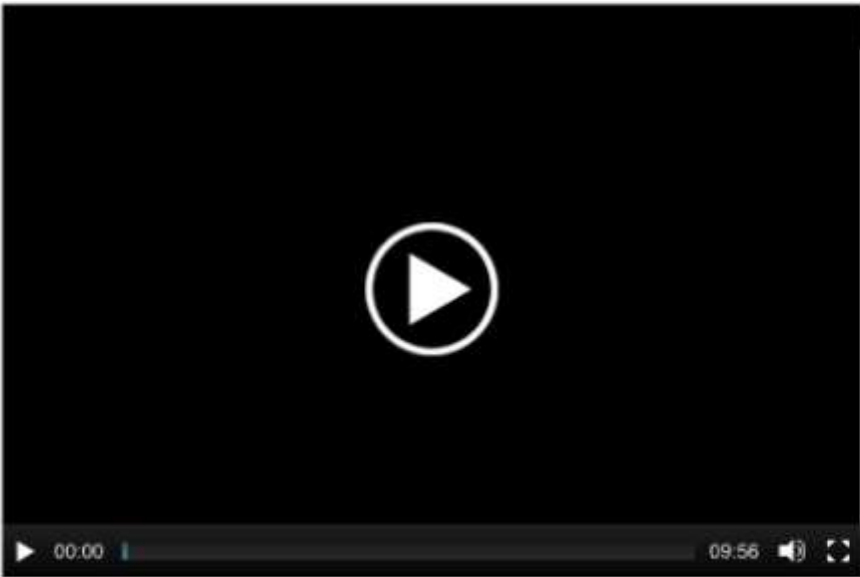


List Tweets

Synote Second Screening Requirements

- Promote real-time interactive, collaborative working and reviewing previous annotations.
- Real time annotations on mobile second screen devices when video replayed on main screen.
- Students mobile device control presenter's video and add annotations for chosen duration with optional fragment highlighting on video.
- The ability to control a video from a second screen can be set by the presenter.
- Text and image thumbnail annotations available on each participant's second screen.
- Automatic thumbnail image alt attributes so screen reader announces "The thumbnail for [video name] at [timecode]".

Session / Big Buck Bunny (Fri Nov 15 2013) / Main Screen



[Link to this session](#) [+](#)

- ☐ Show new and existing annotations from others sessions
- ☒ Allow participants to control video player

Big Buck Bunny
A video about a lovely cuddly bunny

Location: lecture room 2a
Description: A nature video

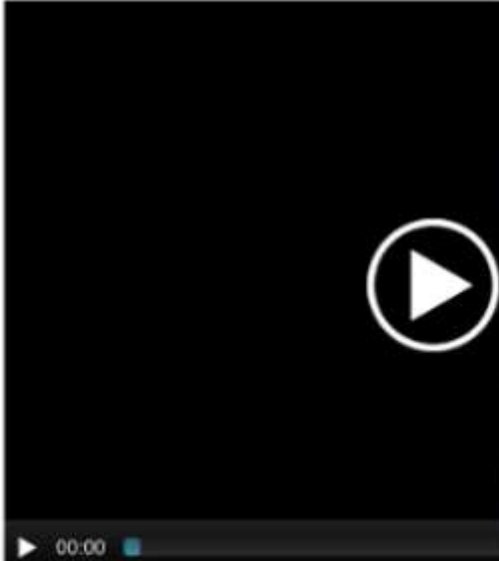
Users
James Robinson

Big Buck Bunny (Fri Nov 15 2013)

ecsgdp.cloudapp.net

Second Screening Home Sessions

Session / Big Buck Bunny (Fri Nov 15 2013)



00:00

Sessions

ecsgdp.cloudapp.net/sessions/page/1

Second Screening Home Sessions Videos Doug Moore

Second Screening

A new level to interactive videos for groups. Find a Video. Create/join a session. Get annotating!

Sessions [Create Session](#)

Presenter	Video	Location	Description	Started	Progress	Participants
James Robinson	Big Buck Bunny	lecture room 2a	A nature video	Fri Nov 15 2013	0:00 / 9:56	1

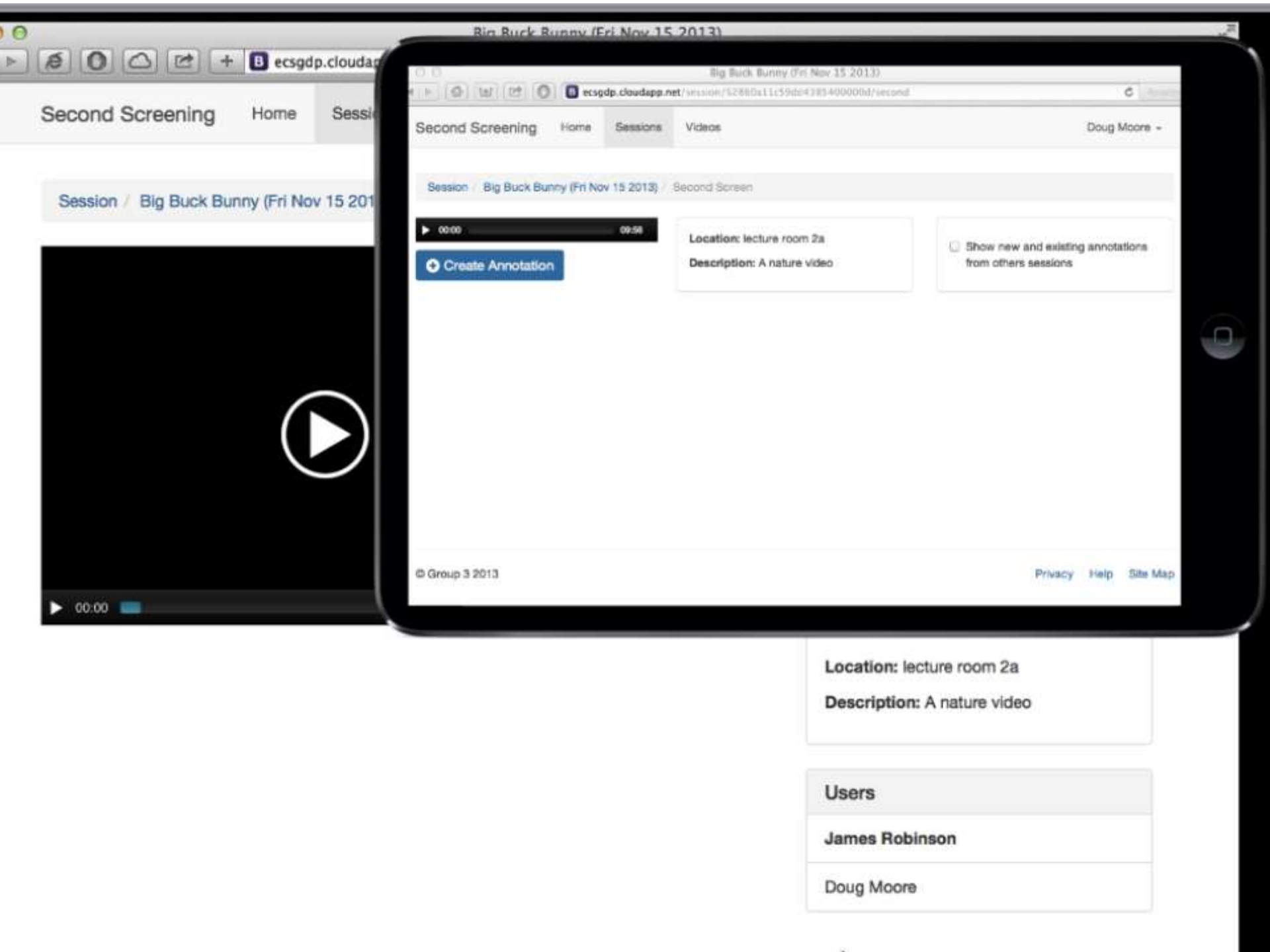
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Location: lecture room 2a

Description: A nature video

Users

James Robinson



Second Screening

Home

Sessions

Doug Moore -

Session / Big Buck Bunny (Fri Nov 15 2013) / Second Screen

00:00 09:58

Create Annotation

Location: lecture room 2a

Description: A nature video

Show new and existing annotations from others sessions

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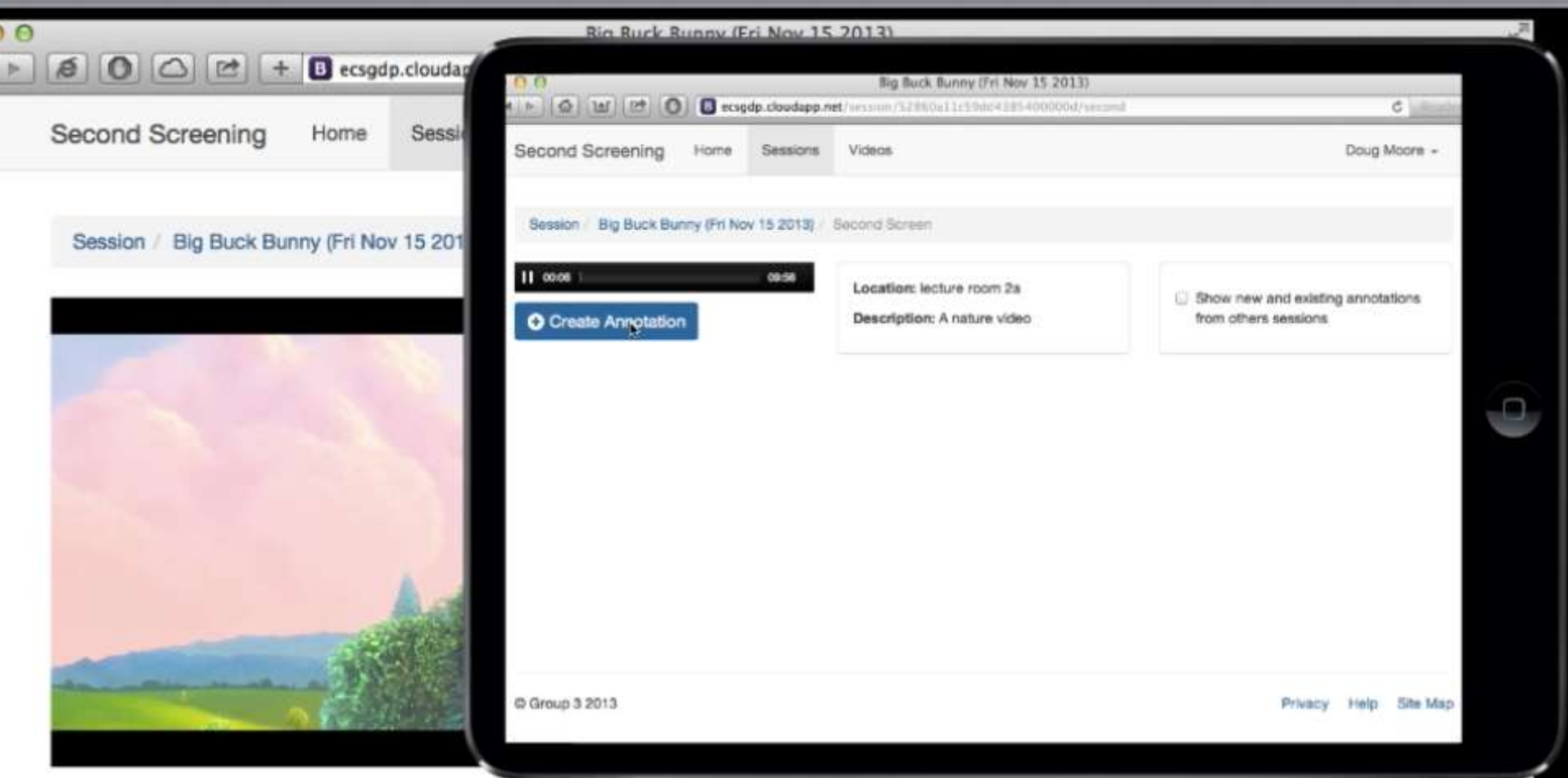
Location: lecture room 2a

Description: A nature video

Users

James Robinson

Doug Moore



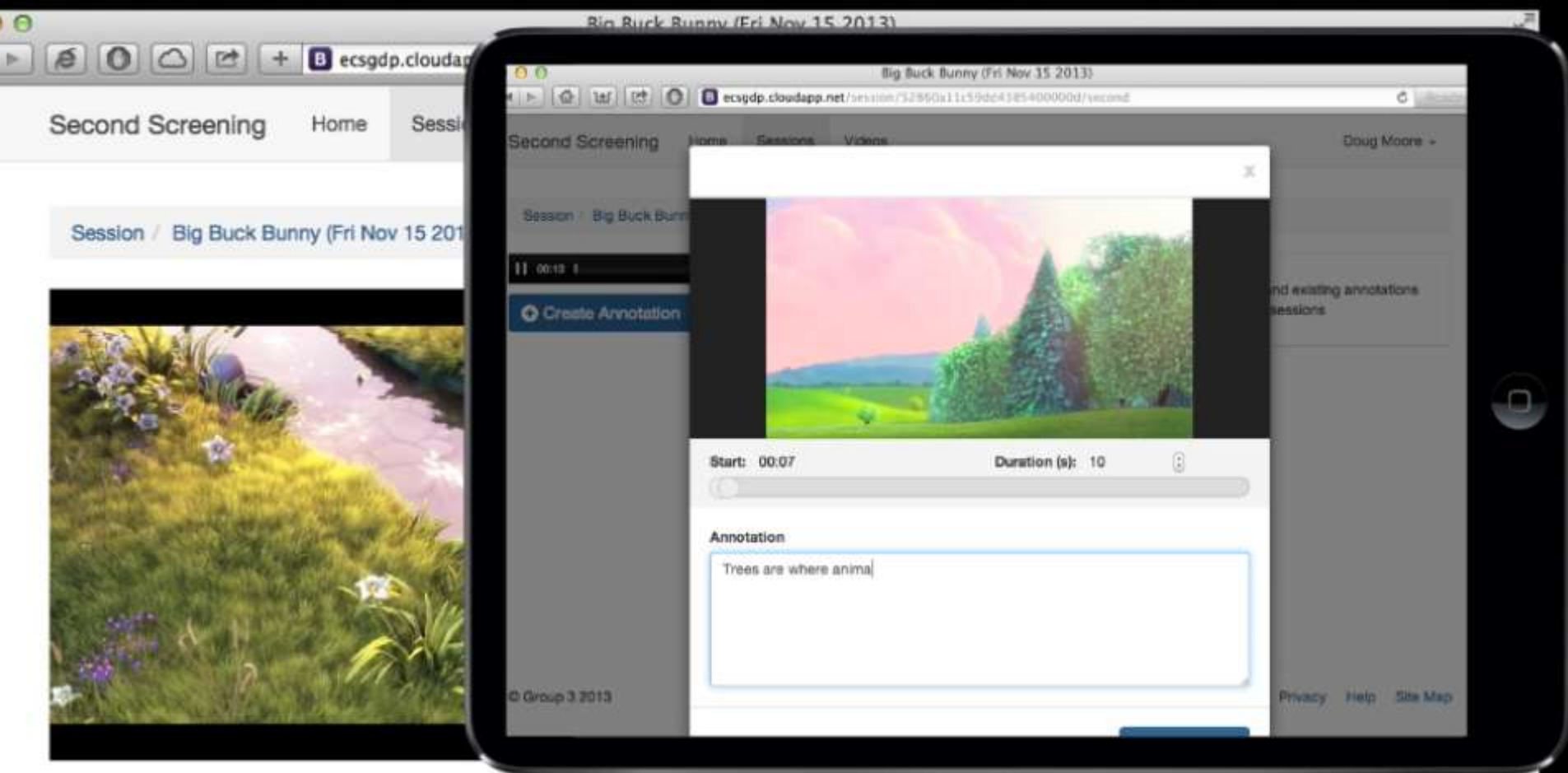
Location: lecture room 2a
Description: A nature video

Users

James Robinson

Doug Moore

Dave Hulme



Location: lecture room 2a

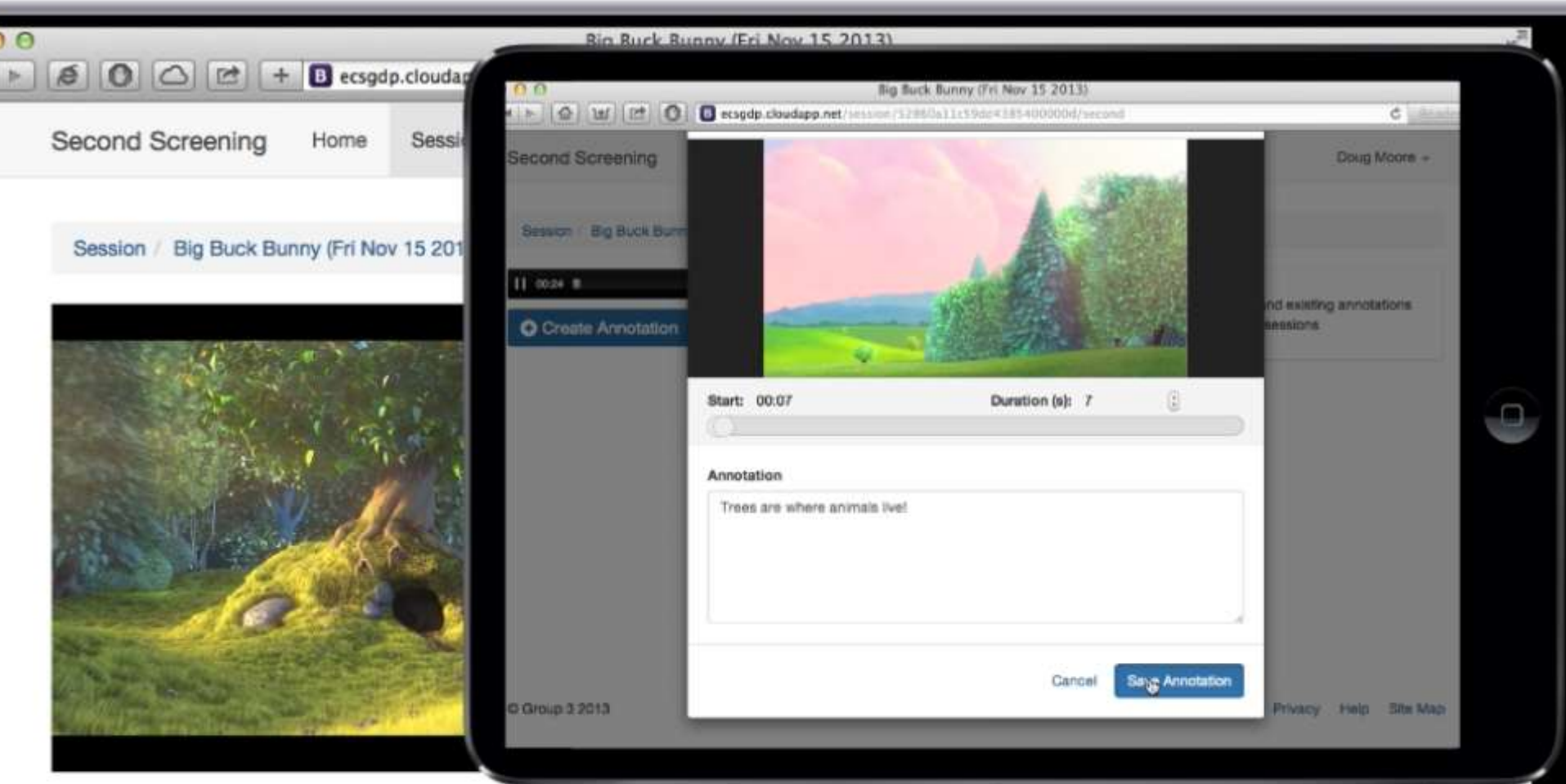
Description: A nature video

Users

James Robinson

Doug Moore

Dave Hulme



Location: lecture room 2a

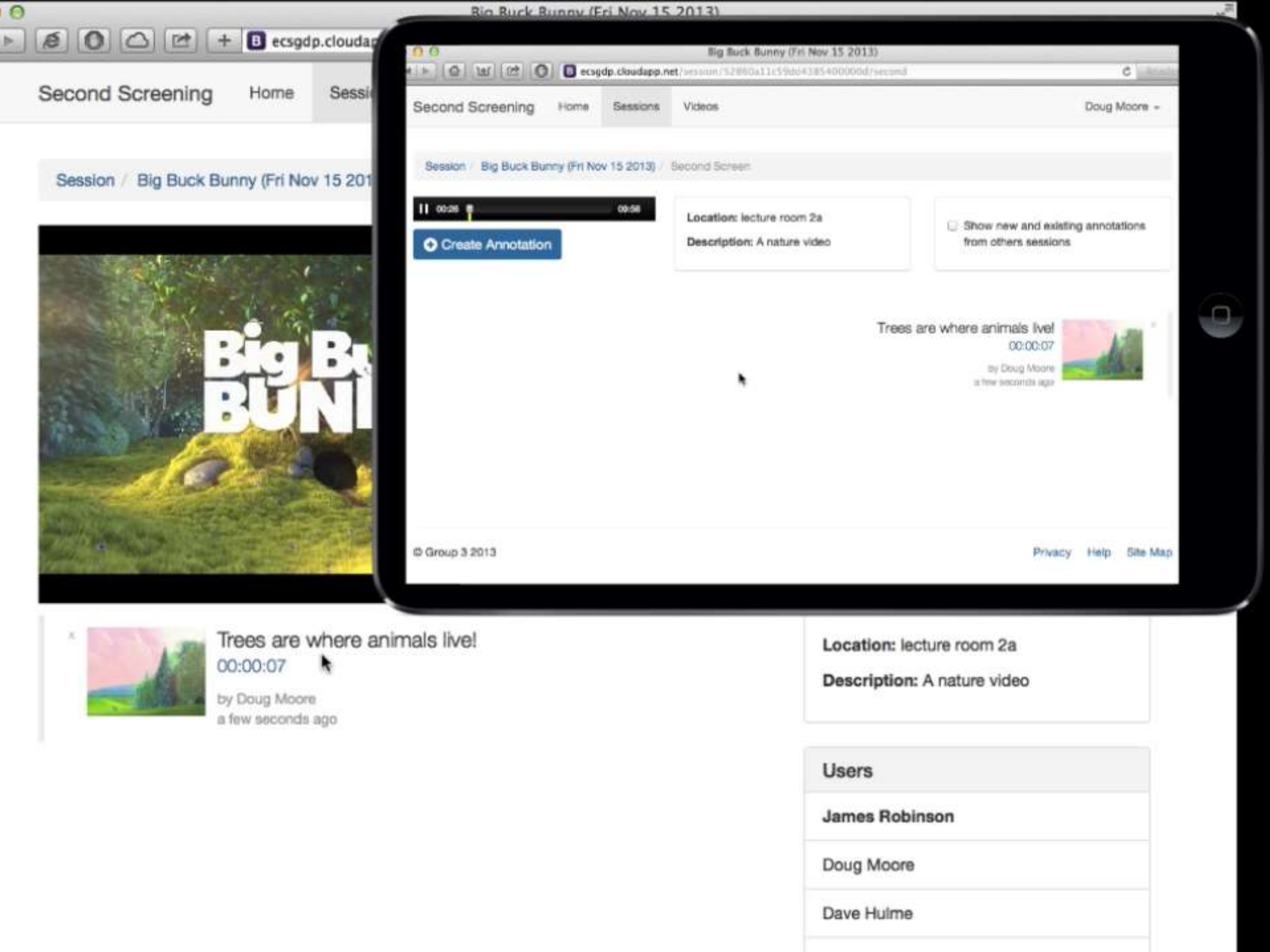
Description: A nature video

Users

James Robinson

Doug Moore

Dave Hulme



Second Screening

Home

Sessions

Session / Big Buck Bunny (Fri Nov 15 2013)



Session / Big Buck Bunny (Fri Nov 15 2013) / Second Screen

00:00:07 09:58

Create Annotation

Location: lecture room 2a

Description: A nature video

☐ Show new and existing annotations from others sessions

Trees are where animals live!

00:00:07

by Doug Moore
a few seconds ago



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Privacy Help Site Map

Location: lecture room 2a

Description: A nature video

Users

James Robinson

Doug Moore

Dave Hulme

Trees are where animals live!

00:00:07

by Doug Moore
a few seconds ago

+

Create Annotation



© Group 3 2013



00:29



Trees are where animals live!

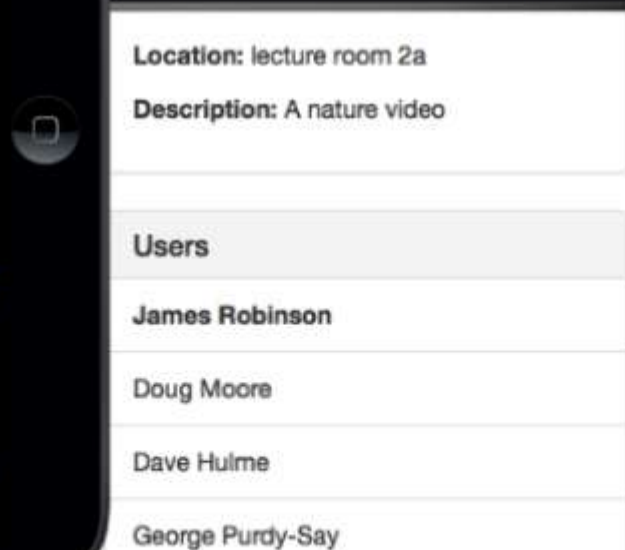
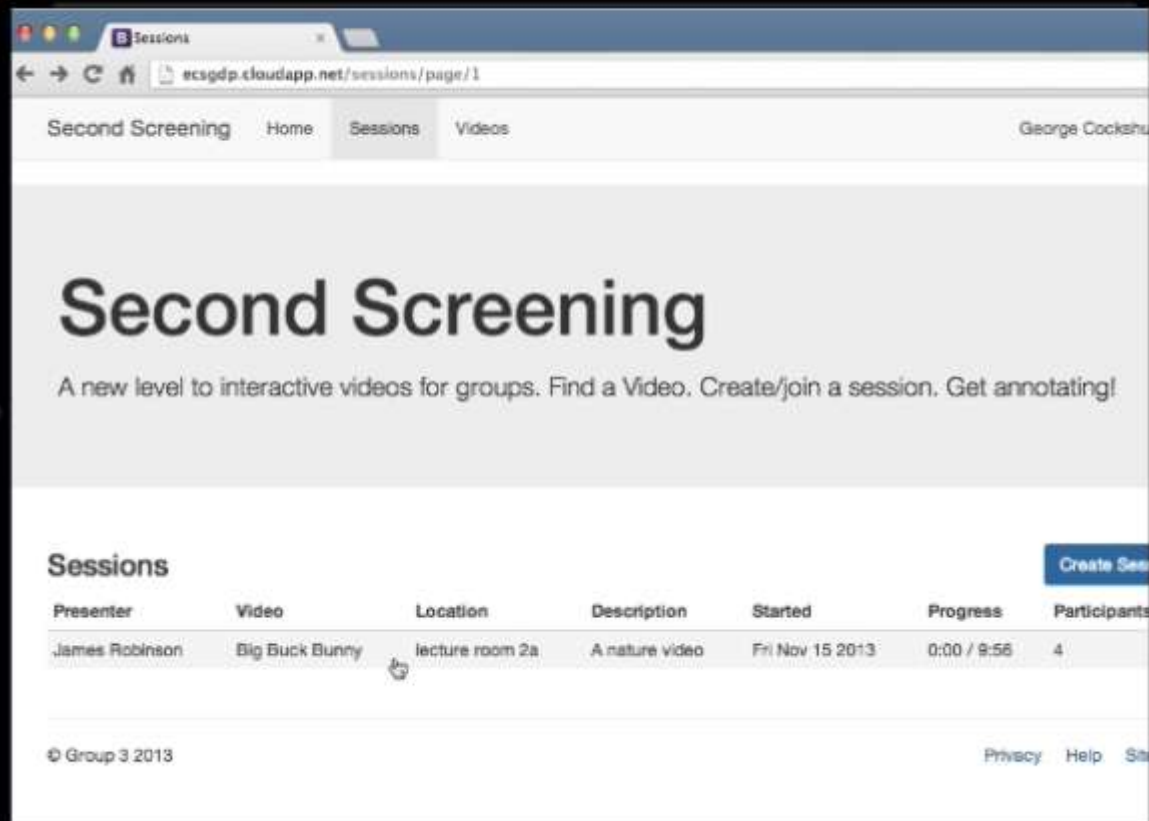
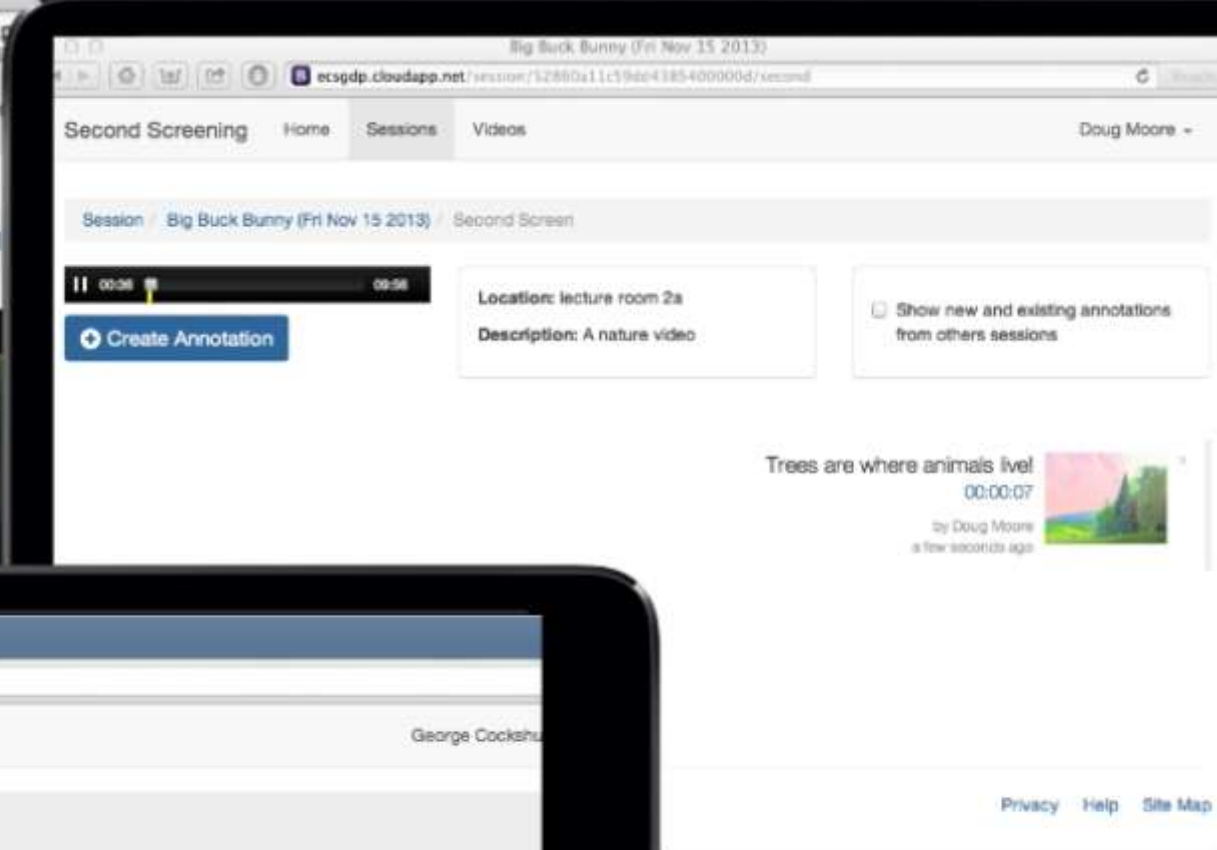
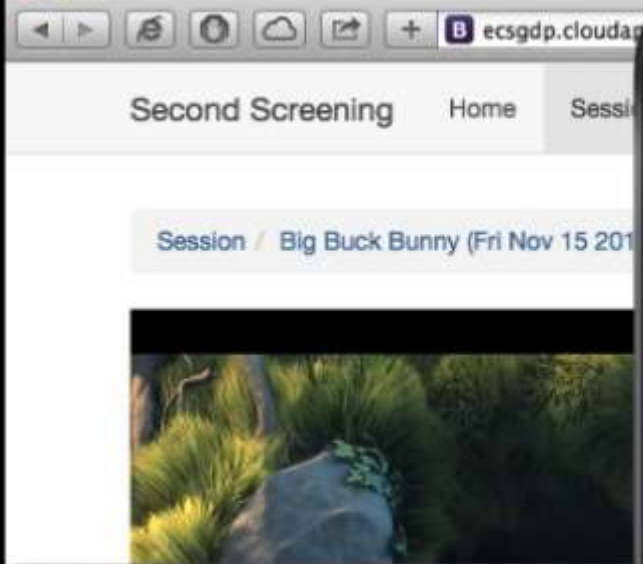
trees are where animals live!

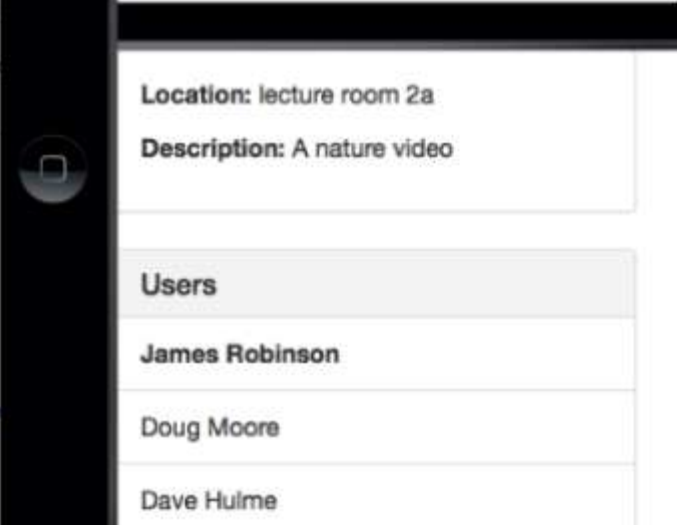
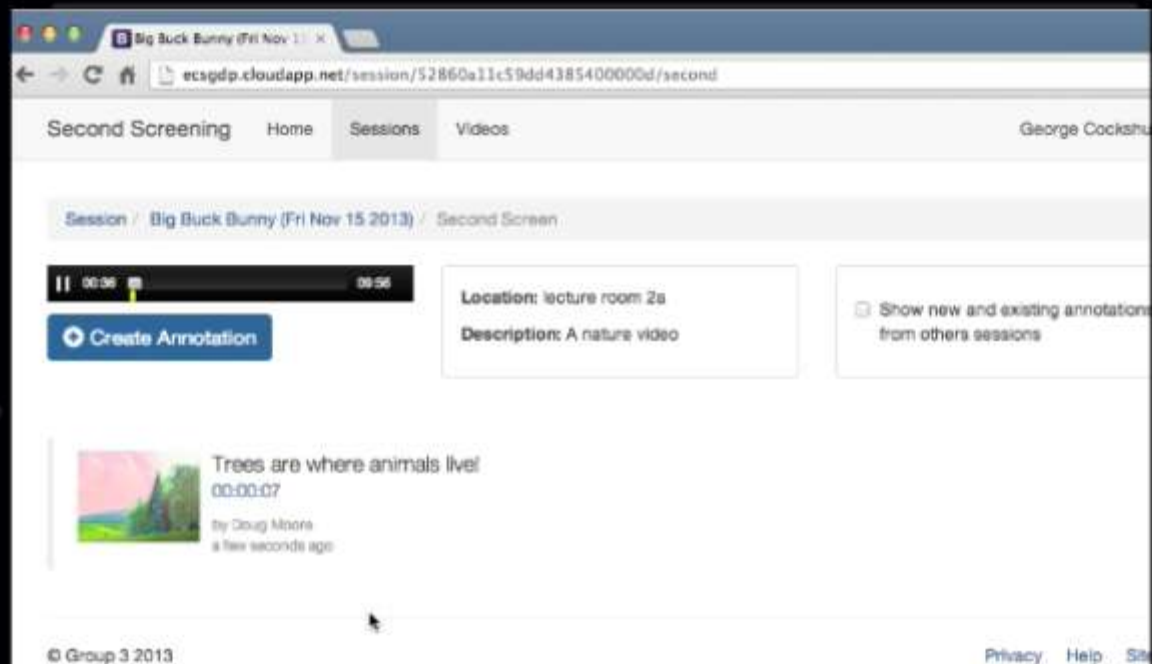
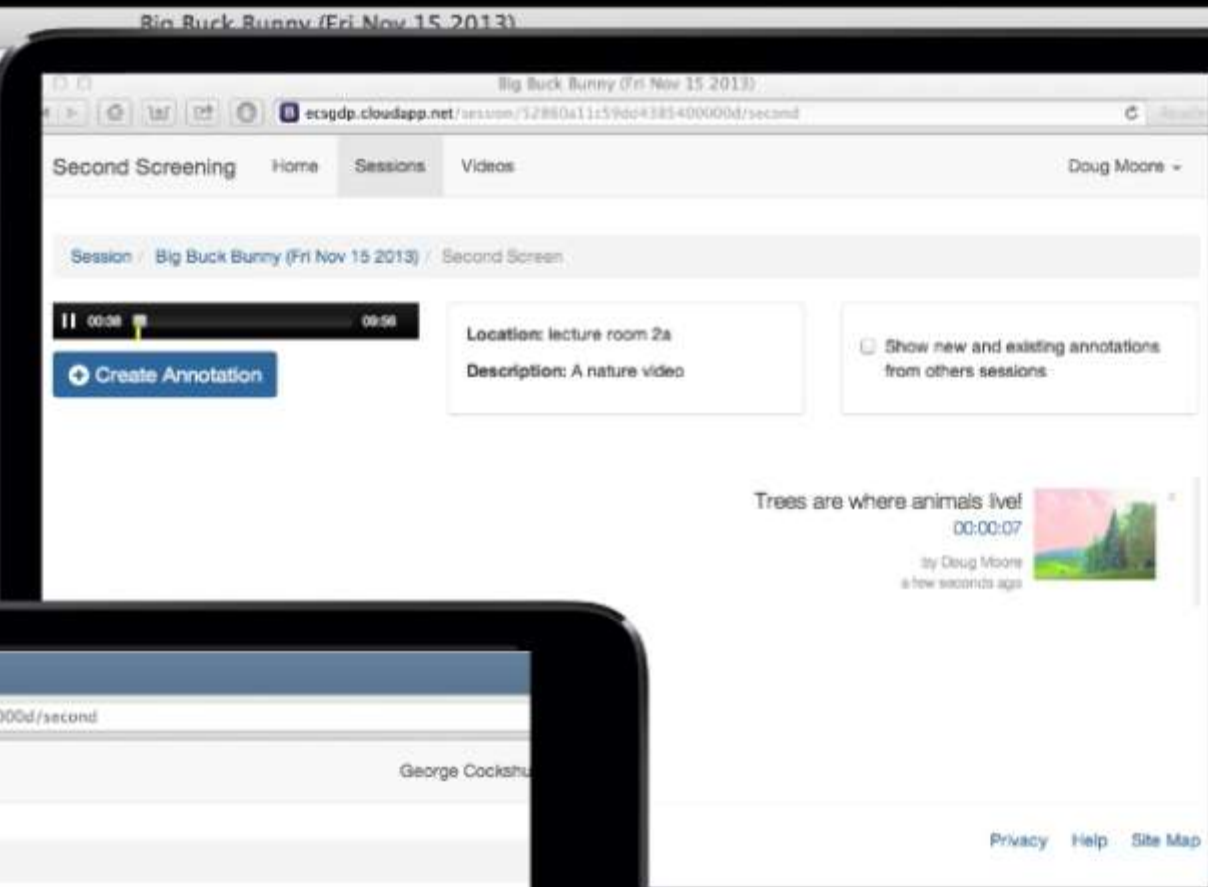
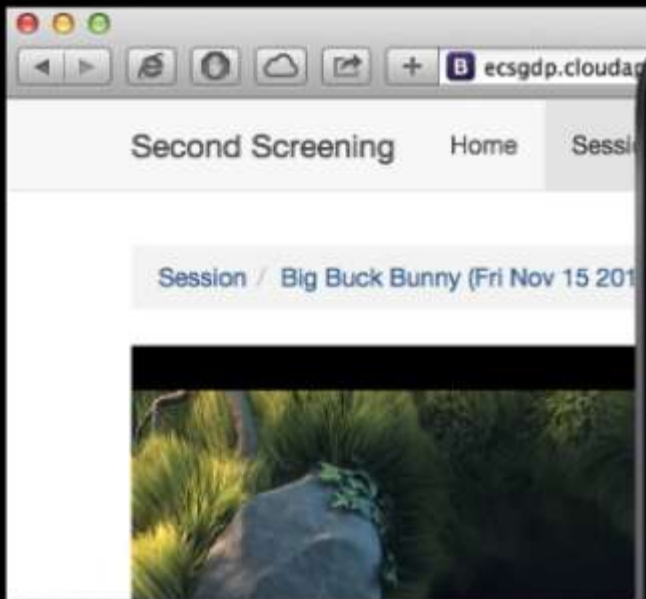
00:00:07

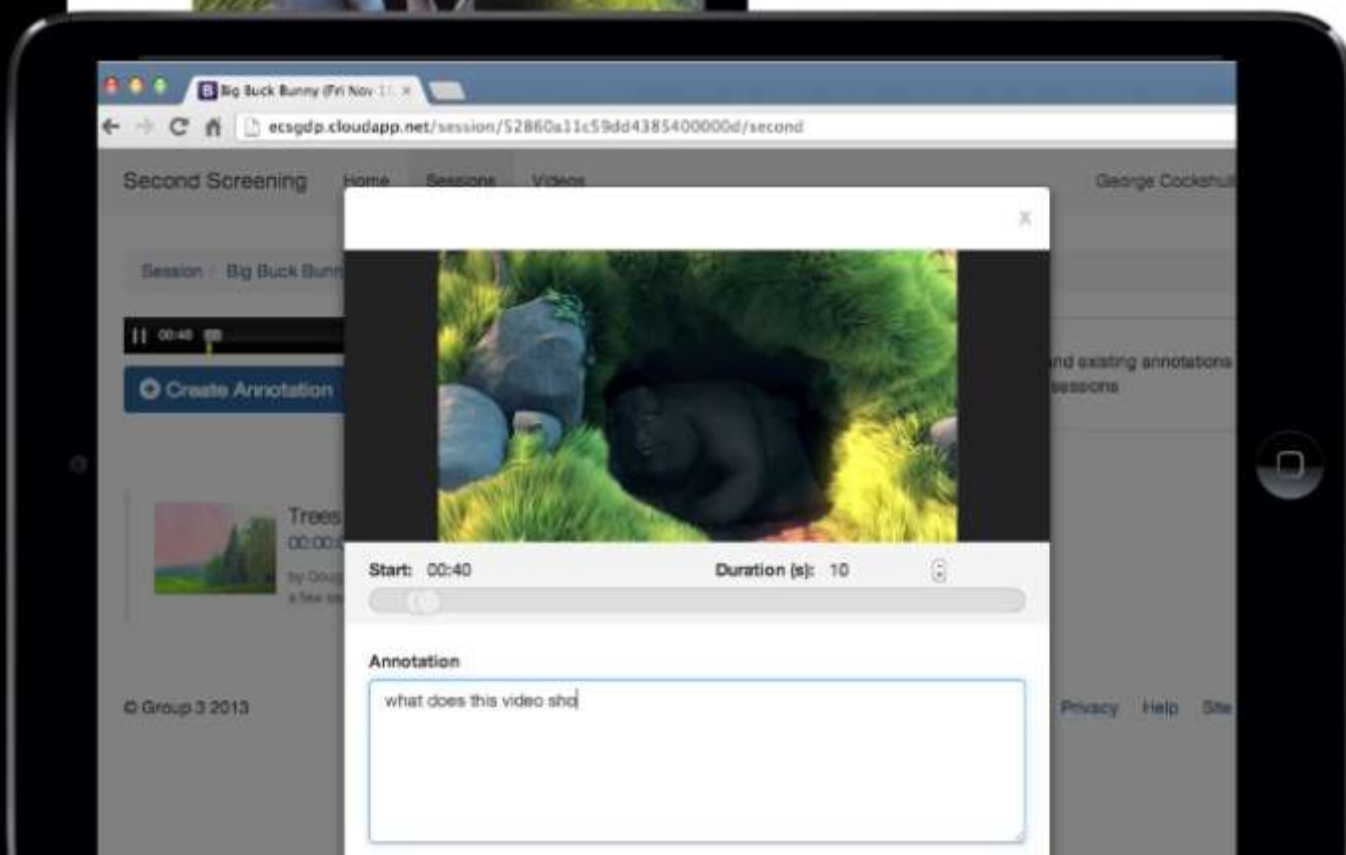
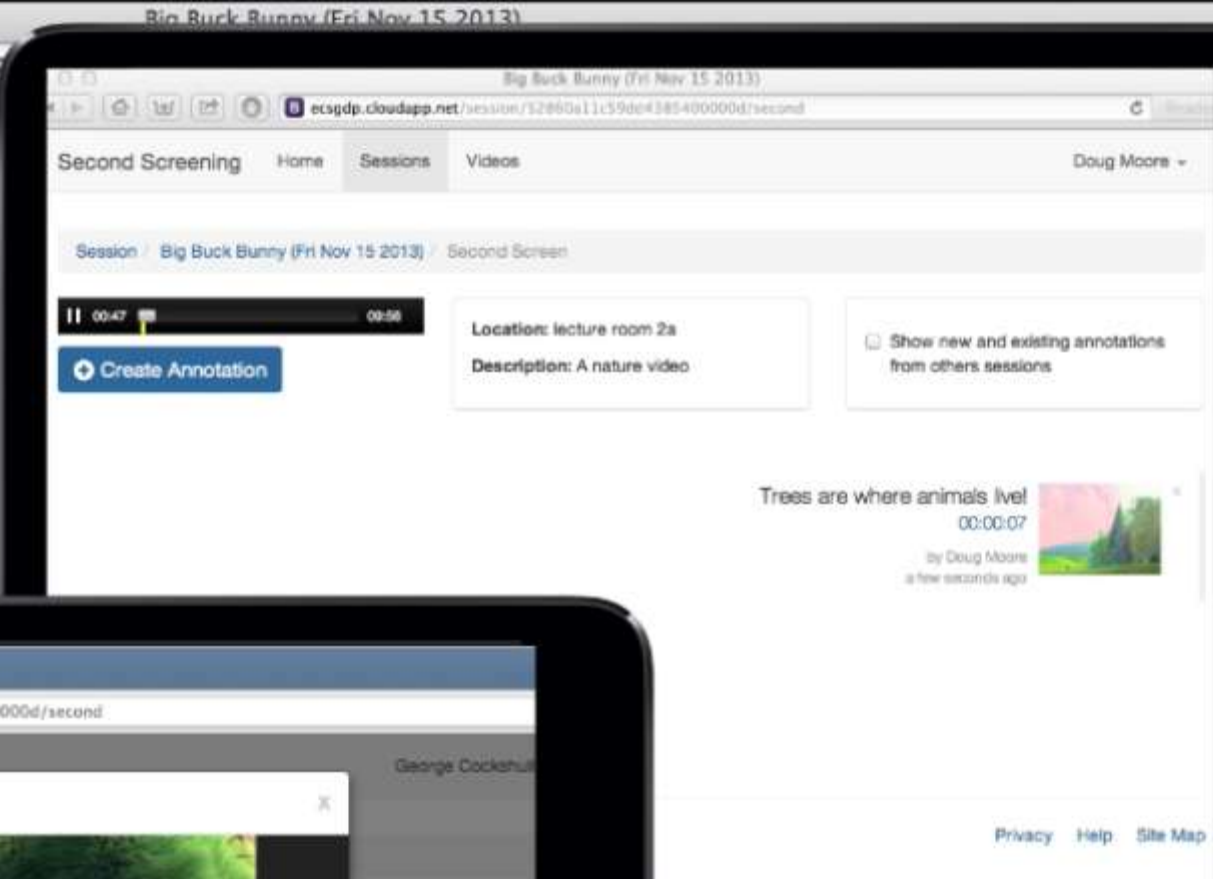
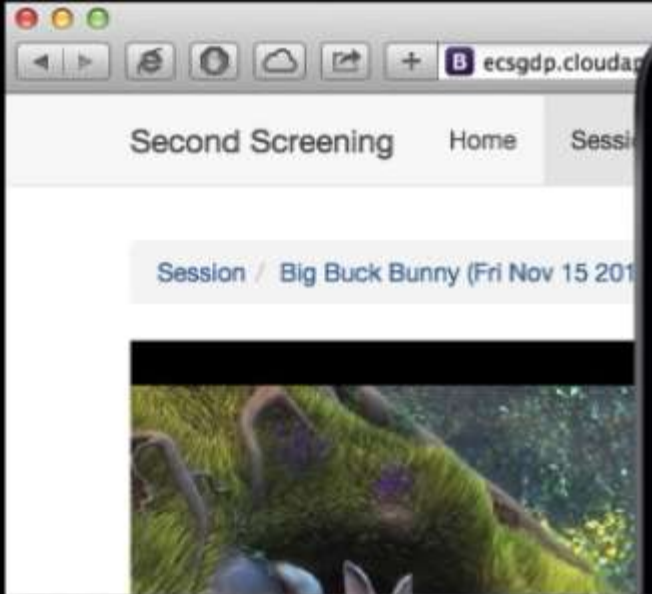
by Doug Moore

a few seconds ago









Second Screening

[Home](#)[Sessions](#)

Session / Big Buck Bunny (Fri Nov 15 2013)



Second Screening

[Home](#)[Sessions](#)[Videos](#)[Doug Moore](#)

Session / Big Buck Bunny (Fri Nov 15 2013) / Second Screen

00:50 00:56

Create Annotation

Location: lecture room 2a

Description: A nature video

Show new and existing annotations from others sessions



what does this video show?

00:00:40

by George Cockshull
a few seconds ago

Trees are where animals live!

00:00:07

by Doug Moore
a few seconds ago

[Privacy](#) [Help](#) [Site Map](#)

Location: lecture room 2a

Description: A nature video

Users

James Robinson

Doug Moore

Dave Hulme

Second Screening

Session / Big Buck Bunny

00:48

Create Annotation



Start: 00:40

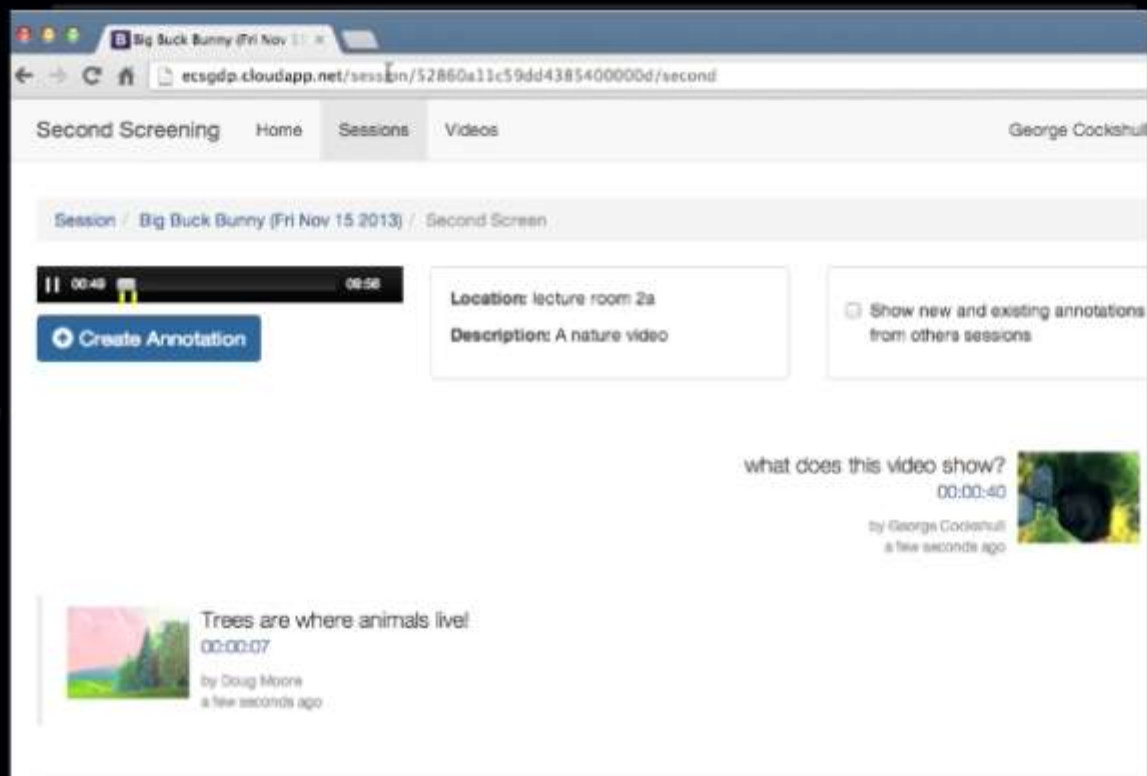
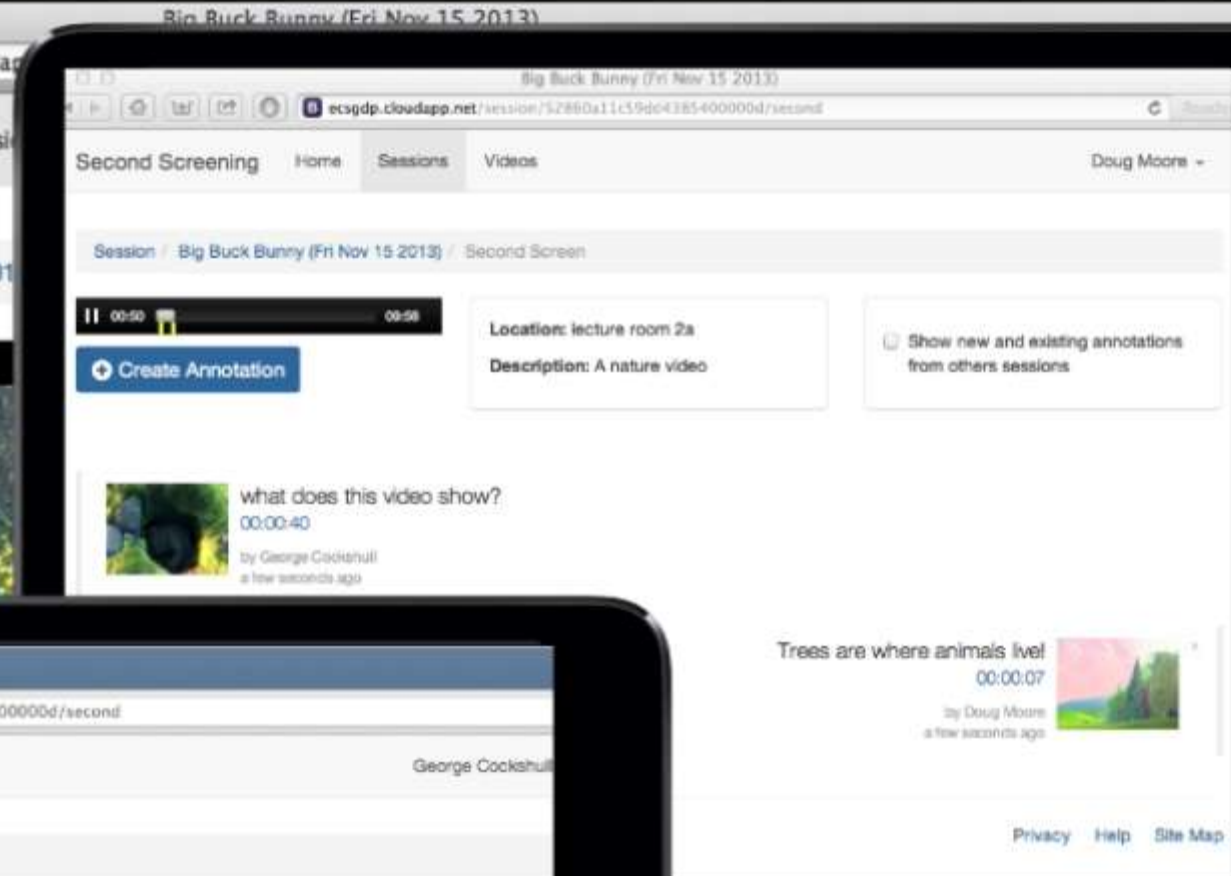
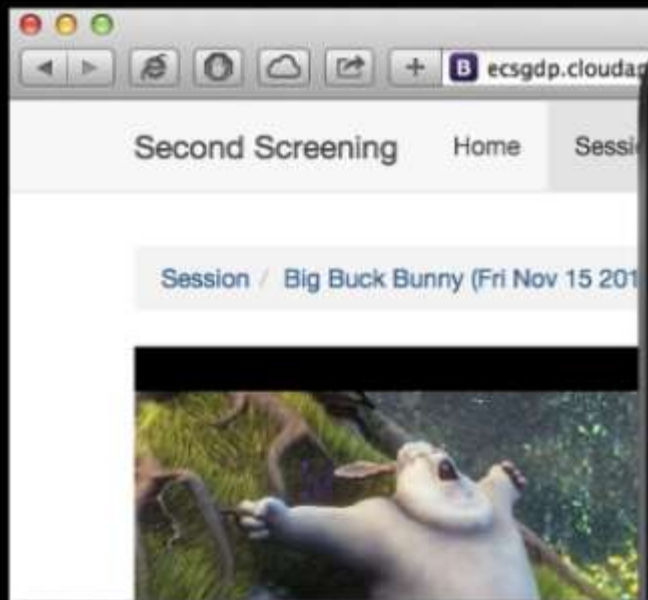
Duration (s): 10

Annotation

what does this video show?

Cancel

Save Annotation



Location: lecture room 2a

Description: A nature video

Users

James Robinson

Doug Moore

Dave Hulme

Second Screening

Session / Big Buck Bunny

01:26

Create Annotation



Rabbit
00:01:00
by Dave
4 minutes

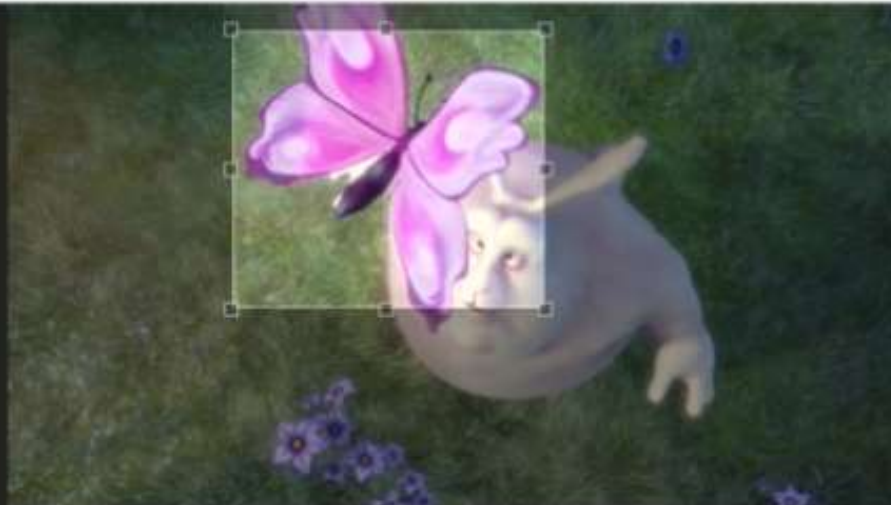


Trees
00:00:00
by Doug

George Purdy

and existing annotations
sessions

clear



Start: 01:18

Duration (s): 10

Annotation

Rabbit likes the |

Cancel

Save Annotation

Session / Big Buck Bunny (Fri Nov 15 2013) / Main Screen



[Link to this session](#)

- ☐ Show new and existing annotations from others sessions
- ☒ Allow participants to control video player

Big Buck Bunny
A video about a lovely cuddly bunny

Location: lecture room 2a
Description: A nature video

Users	
James Robinson	
Doug Moore	
Dave Hulme	

Rabbit likes the bunny!
00:01:18
by George Purdy-Say
a few seconds ago

Rabbit going for a stroll
00:01:06
by Dave Hulme
4 minutes ago

Big Buck Bunny (Fri Nov 15 2013)

ecsgrp.cloudapp.net/session/52860a11c59dd4385400000d/main#

Reader


Second Screening

HomeSessionsVideos

James Robinson


Session / Big Buck Bunny

Annotation at 01:18



Rabbit likes the bunny!

Play fragment: 00:01:18 - 00:01:26




Rabbit likes the bunny!

00:01:18

by Godwin Huijst

a few seconds ago



Rabbit going for a stroll

00:01:06

by Dave Huime

4 minutes ago

session

+

ed existing annotations

essions

ants to control video

ny

lovely cuddly bunny

room 2a

ature video

Users

James Robinson

Doug Moore

Dave Huime

Second Screening

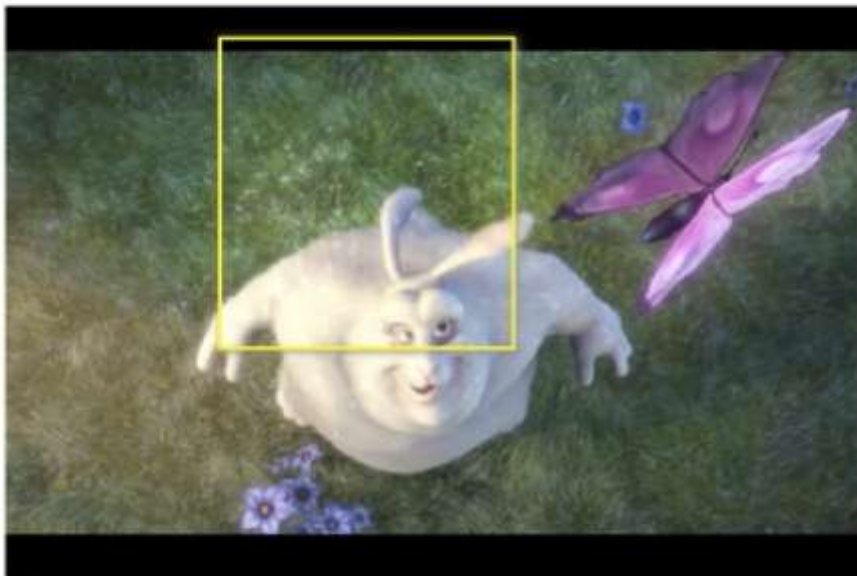
Home

Sessions

Videos

James Robinson ▾

Session / Big Buck Bunny (Fri Nov 15 2013) / Main Screen



[Link to this session](#)



- ☐ Show new and existing annotations from others sessions
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Doug Moore

Dave Hulme

Rabbit likes the bunny!
00:01:18
by George Purdy-Say
a few seconds ago

Rabbit going for a stroll
00:01:06
by Dave Hulme
4 minutes ago

Second Screening

Home

Sessions

Videos

James Robinson ▾

Session / Big Buck Bunny (Fri Nov 15 2013) / Main Screen



[Link to this session](#)



- ☐ Show new and existing annotations from others sessions
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Big Buck Bunny

A video about a lovely cuddly bunny

Location: lecture room 2a

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Users

James Robinson

Doug Moore

Dave Hulme

x  Rabbit likes the bunny!
00:01:18
by George Purdy-Say
a few seconds ago

x  Rabbit going for a stroll
00:01:06
by Dave Hulme
4 minutes ago

Login

Login using Facebook

Login using Google

Email

me@jdr.name

Password

Big Buck Bunny (Fri Nov 15 2013)

ecsgdp.cloudapp.net/session/52860a11c59dd4385400000d/second

Second Screening

Session / Big Buck Bunny

Session has ended

The presenter has closed the session.

OK

Create Annotation

Rabbit likes the bunny!

00:01:18

by George Purdy-Say

a minute ago

Rabbit going for a stroll

00:01:06

by Dave Hubble

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Privacy Help Site Map

Testing and Evaluation

- Evaluation of initial prototype by student focus group
- PowerMapper + Webaim's Wave toolbar for Firefox + Paciello Group Colour Contrast Analyser helped confirm accessibility
- 10 participants simulated real classroom tasks using keyboard and mouse on laptops and touchscreen tablets and smartphones
 - Joining a session; Adding an annotation; Adding a media fragment; Marking new question annotation; Deleting personal annotation; Controlling video playback; Playing media fragment; Viewing session comments, and Creating a session.
- Results
 - accessible, effective and intuitive
 - 80% participants agreed system helps collaborative note taking
 - 90% of participants want to use the system in classes.

Conclusion

- Students welcome use of Synote Second Screening in classrooms to help improve accessibility, engagement and learning.

Future work includes:

- Addition of 'one-click' button to notify lecturer something in video confusing;
- Permission-based authorisation system to enable teacher to allow only certain participants to control playback;
- Providing text box search for timecode in addition to timeline slider navigation of video;
- Classrooms trials.

Questions?