

Making (use of) Videos for Teaching and Learning

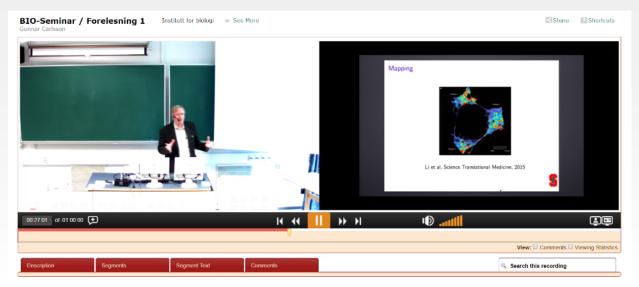
Jonathan Soulé bioCEED





What type of video?

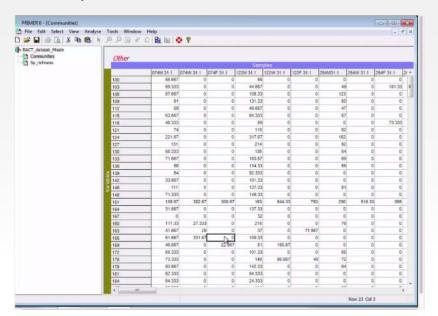
Videonotes





What type of video?

- Videonotes
- Tutorials/PreLab/Short lectures



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What type of video?

- Videonotes
- Tutorials/PreLab/Short lectures
- Streaming LIVE



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- Focus on the content of your screen
 - > Powerpoint presentation/course material



- Focus on the content of your screen
 - > Powerpoint presentation/course material
- Your voice/text is central

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- Focus on the content of your screen
 - > Powerpoint presentation/course material
- Your voice/text is central
- Your presence on screen is optional (but welcome).



Recording lectures (Videonotes)



- Filming your own lectures
 - as support material for your students (pros and cons...)



- Filming your own lectures
 - as support material for your students (pros and cons...)
 - for later use, reuse and abuse

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- UiB's collection of videos on http://video.dig.uib.no/engage/ui/index.html?

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- UiA's extensive collection of videos on video.uia.no

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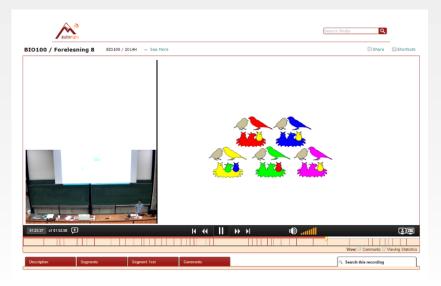
- Filming your own lectures
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 - for later use, reuse and abuse
- UiB's collection of videos on http://video.dig.uib.no/engage/ui/index.html?
- UiA's extensive collection of videos on video.uia.no
- 2 solutions
 - DigUiB's videonotes ask someone to film you
 - Techsmith Relay film your own lecture

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Solution 1: DigUiB's videonotes

- Automatic recordings of the lectures including:
 - Screencast
 - Voice
 - Camera
 - Index
- www.uib.no/diguib



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Where is it available at UiB?

These rooms have fixed recording equipment:

- JU: Auditorium 1, Dragefjellet
- JU: Auditorium 2, Dragefjellet
- MN: Auditorium 1, Realfagsbygget
- MN: Auditiorium A, Allégaten 66 (Temporarily out of order)
- MN: Stort auditorium, Høyteknologisenteret
- MO: Seminarrom 234, Overlege Danielsens hus
- MO: Auditorium 1, BB-bygget

- SV: Stort auditorium, Lauritz Meltzers hus
- SV: Lite auditorium, Lauritz Meltzers hus
- HF: Auditorium A, Sydneshaugen skole (Temporarily out of order)
- HF: Auditorium B, Sydneshaugen skole
- PS: Auditorium 129, Bjørn Christiansens hus
- PS: Auditorium 128, Bjørn Christiansens hus

• Egget, Studentsenteret

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These rooms have fixed recording equipment:

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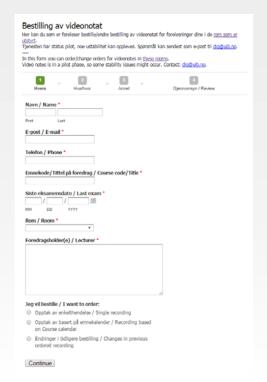
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- PS: Auditorium 129, Bjørn Christiansens hus
- PS: Auditorium 128, Bjørn Christiansens hus

Egget, Studentsenteret

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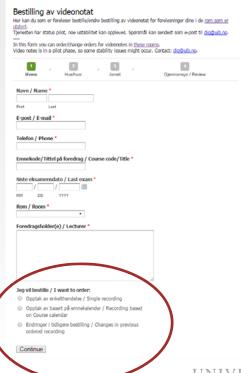
- Order it at DigUiB!
- Fill up the form online





- Order it at DigUiB!
- Fill up the form online
 - Single lecture
 - Whole course*

* Only lectures at locations equipped for recording



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• Show up at your own lecture



- Show up at your own lecture
- Turn on the projector... (needed to activate audio system)



- Show up at your own lecture
- Turn on the projector... (needed to activate audio system)
- USE THE MICROPHONE
 - > No mic, no sound!!!

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- Show up at your own lecture
- Turn on the projector... (needed to activate audio system)
- USE THE MICROPHONE
 - > No mic, no sound!!!

Recording starts 2-3 minutes before the lecture and ends 2-3 minutes after the lecture (as defined in the form or the time schedule).



• Get/give access to your video at:

http://video.dig.uib.no/engage/ui/index.html?



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Solution 2: Techsmith Relay

- Simple solution for screencast
 - Capture (one of) your screen(s)
 - Capture your webcam (optional)
 - Capture your voice



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Solution 2: Techsmith Relay

- Simple solution for screencast
 - Capture (one of) your screen(s)
 - Capture your webcam (optional)
 - Capture your voice
- «Free» to use at UiB (Uninett)
- «Free» storage of videos on remore server

TechSmith Relay®



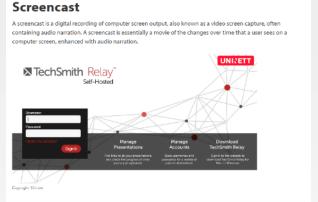
Solution 2: Techsmith Relay

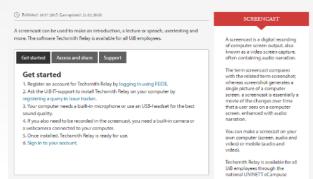
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- «Free» to use at UiB (Uninett)
- «Free» storage of videos on remore server
- Videos are accessible 24/7 via a link

TechSmith Relay®



• Sign up at DigUiB!





OF BERGEN

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- Sign up at DigUiB!
- www.uib.no/diguib/90236/screencast



- Sign up at DigUiB!
- www.uib.no/diguib/90236/screencast
- Get the software installed on your PC
 - Via BRITA (client PCs)
 - Download it for free

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- Run the program and log on with your new credentials
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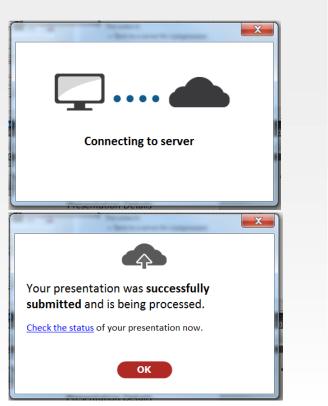
- 1. set up the microphone
- 2. set up the webcam
- 3. choose the display/screen to capture
- 4. test the setup
- 5. Push REC



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Once done, submit the video.



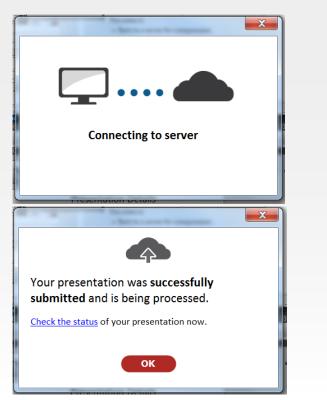
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Once done, submit the video.

The video is:

1. Sent to a server for encoding



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Once done, submit the video.

The video is:

- 1. Sent to a server for encoding
- 2. Made available via an email

Hei Jonathan Soule,

Presentasjonen din fra den 21.10.2016 21:59:57 er ferdig konvertert og klar for deling :-)

Gå til "Min Relay" for en oversikt over alle dine presentasjoner: https://support.ecampus.no/techsmithrelay/min-relay/

Mvh.

UNINETT eCampus https://support.ecampus.no/

Description:

Duration: {f:Duration[3200,000]}

Type	Size	Link
MP4 with Smart Player (480p)	878 KB	View
MP4 with Smart Player (720p)	960 KB	View
MP4 with Smart Player (1080p)	1,10 MB	View
MP3 (Audio Only)	34,8 KB	View

Automatic notification by TechSmith

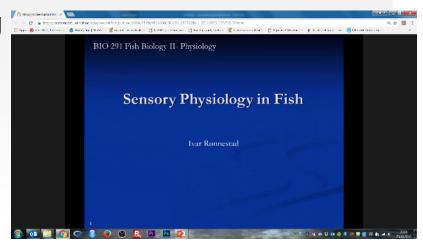


How to – step 3

Once done, submit the video.

The video is:

- 1. Sent to a server for encoding
- 2. Made available via an email
- 3. Displayed via net browser



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Flipped classrooms Prelab Tutorials



Producing tutorials/short videos

- Flipped classroom
 - Making videos to teach something ahead of colloquia
 - Theme/subject of the day
 - Exercise/assignment

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Producing tutorials/short videos

- Flipped classroom
 - Making videos to teach something ahead of colloquia
 - Theme/subject of the day
 - Exercise/assignment
- PreLab
 - Making introductory videos to lab activities
 - «What to know before dissecting today's beast»
 - «What are the dangers of today's experiment»

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Producing tutorials/short videos

- Flipped classroom
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 - Making introductory videos to lab activities
 - «What to know before dissecting today's beast»
 - «What are the dangers of today's experiment»
- 2 solutions:
 - Techsmith Relay
 - OBS Studio

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• Preparing a video in your office, at the bench, on field...



- Preparing a video in your office, at the bench, on field...
- What do you need to capture:
 - Speaker's voice

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- Preparing a video in your office, at the bench, on field...
- What do you need to capture:
 - Speaker's voice
 - Speaker's face (optional but...)

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- Preparing a video in your office, at the bench, on field...
- What do you need to capture:
 - Speaker's voice
 - Speaker's face (optional but...)
 - Teaching material on screen
 - Screencast

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- Preparing a video in your office, at the bench, on field...
- What do you need to capture:
 - Speaker's voice
 - Speaker's face (optional but...)
 - Teaching material on screen
 - Screencast
 - Teaching material from handheld webcam/microscope/loupe
 - Shown on full screen via extra software (webcamviewer)



Solution 1: Techsmith Relay

- 1. set up the microphone
- 2. set up the webcam
- 3. choose the display/screen to capture



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Solution 1: Techsmith Relay

- 1. set up the microphone
- 2. set up the webcam
- 3. choose the display/screen to capture
- 4. test the setup



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Solution 1: Techsmith Relay

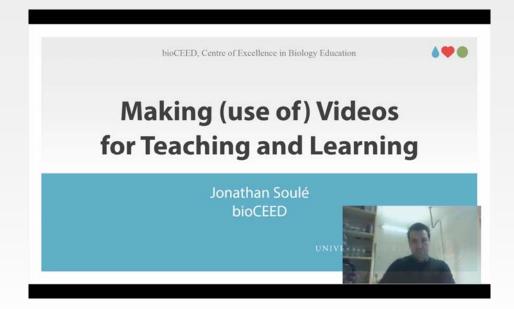
- 1. set up the microphone
- 2. set up the webcam
- 3. choose the display/screen to capture
- 4. test the setup
- 5. Push the button REC



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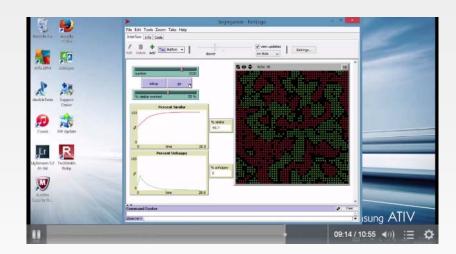


Solution 1: quick example

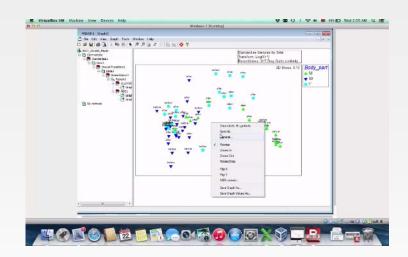




A couple of examples



Anders Opdal introducing NetLogo on biostats.uib.no



Adèle Mennerat introducing an exercise in BIO201 on biostats.uib.no



- aka OBS Studio
- Free, open source
- https://obsproject.com/download





- aka OBS Studio
- Free, open source
- https://obsproject.com/download
- More advanced than Relay
 - more flexible as well
 - Not as simple to set up

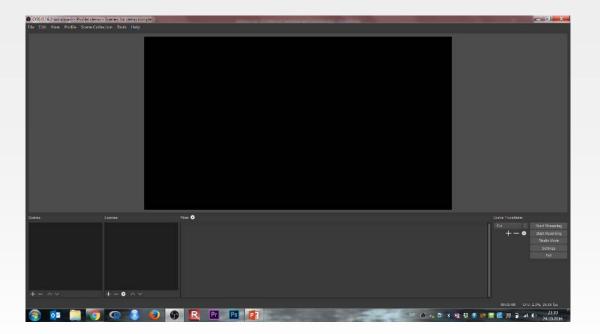




- aka OBS Studio
- Free, open source
- https://obsproject.com/download
- More advanced than Relay
 - more flexible as well
 - Not as simple to set up
- Encodes the video while recording
 - > need stronger CPU/GPU

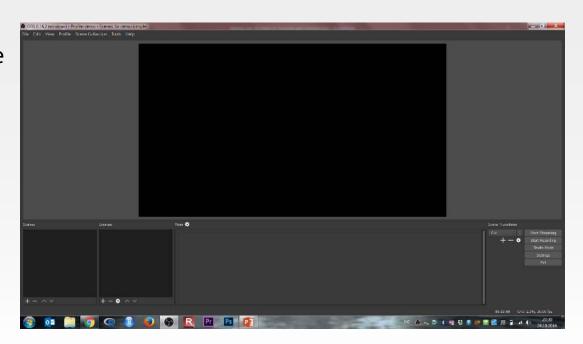








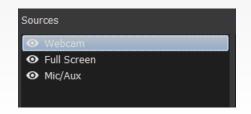
- 1. Set up your display/scene
- 2. Set up your microphone

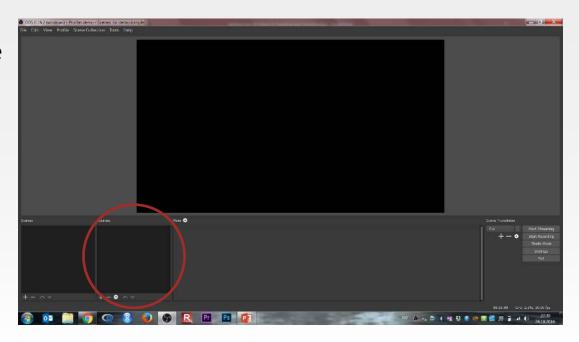


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- 1. Set up your display/scene
- 2. Set up your microphone







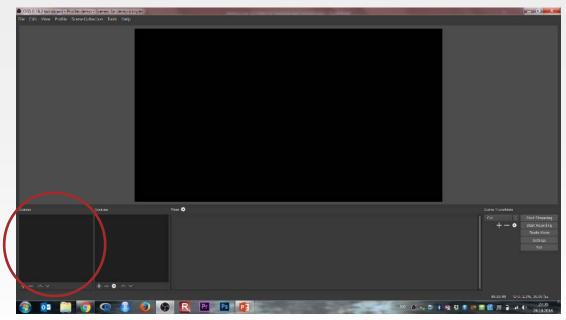
- 1. Set up your display/scene
- 2. Set up your microphone
- 3. Create different scenes

Scenes

Webcam, desktop and microphone

No Webcam, desktop and microphone

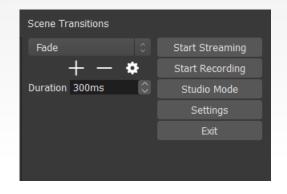
Background Picture, webcam, no sounc

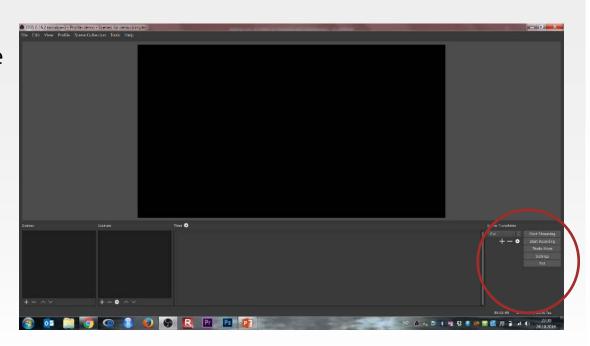


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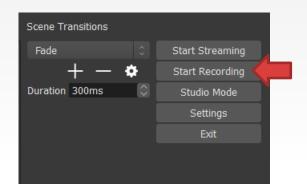
- 1. Set up your display/scene
- 2. Set up your microphone
- 3. Create different scenes
- 4. Create a transition

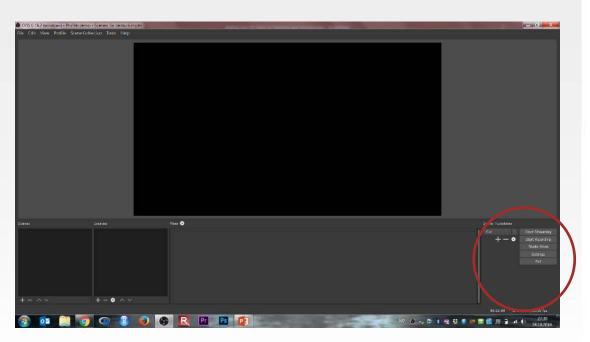






- 1. Set up your display/scene
- 2. Set up your microphone
- 3. Create different scenes
- 4. Create a transition
- 5. Record it!







Solution 2: scenes in OBS Studio

- Scenes allow to alternate between:
 - Softwares, windows
 - Remove an item (webcam)
 - Play additional video material
 - Show a document

– ...

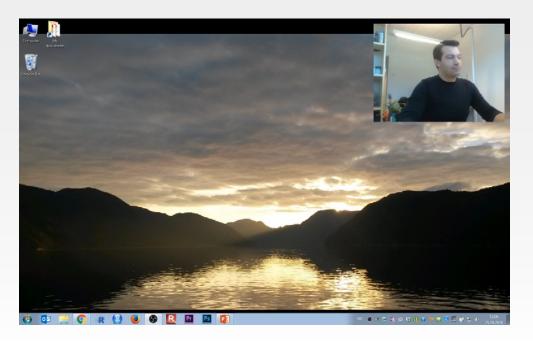
Scenes

Webcam, desktop and microphone No Webcam, desktop and microphone Background Picture, webcam, no sounc



Solution 2: quick example

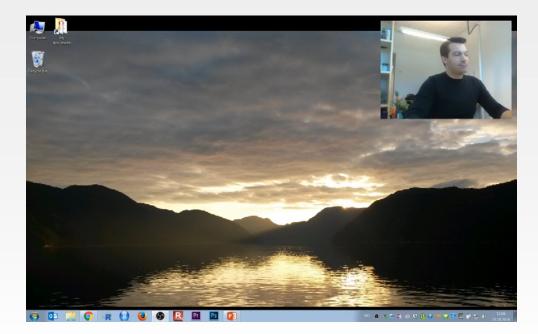
1. Scene 1: webcam ON





Solution 2: quick example

- 1. Scene 1: webcam ON
- 2. Scene 2: webcam OFF
- 3. Scene 1: webcam ON
- 4. Scene 2: webcam OFF
- 5. Scene 3: the french touch





LIVE streaming



Streaming events

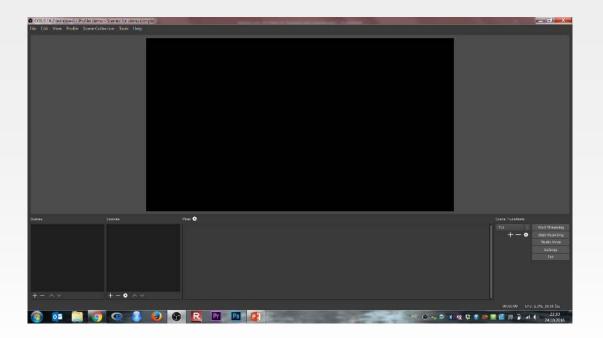
- Streaming
 - Live broadcasting of teaching activities
 - Live broadcasting of conferences, workshops...

- 2 solutions:
 - OBS Studio
 - DigUiB's platform

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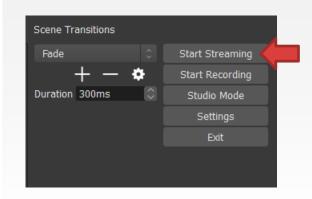


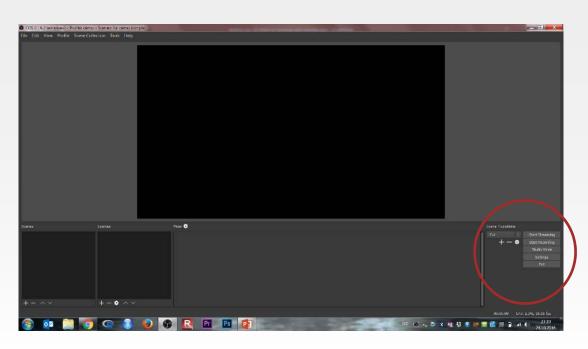
Solution 1: OBS Studio via server





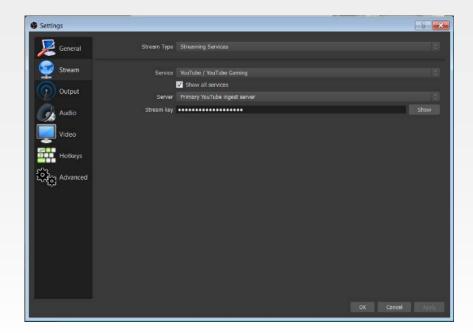
Solution 1: OBS Studio via server





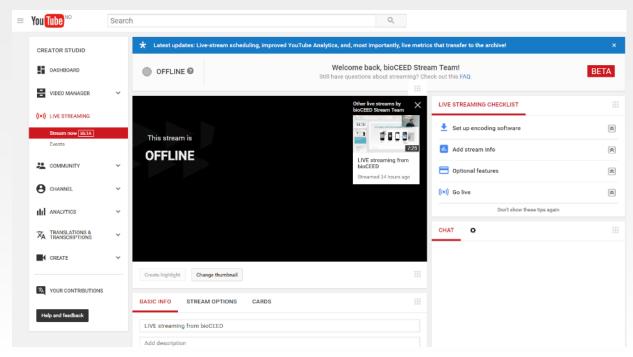


Solution 1: OBS Studio via Youtube





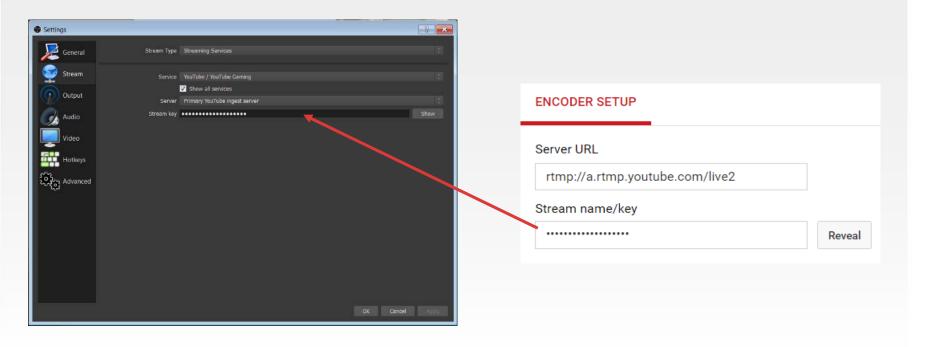
Solution 1: OBS Studio via Youtube



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Solution 1: OBS Studio via Youtube





Solution 2: DigUiB

- Contact DigUiB (via the webpage)
- Fill up the form
- Enjoy!

Forespørsel opptak/strømming av arrangement
JIB tilbyr opptak/strømming av arrangementer på UIB. Søk her om opptak/strømming fra oss. Vi vurderer orespørselen og hjelper enten selv eller gir deg råd over hvem ellers kan hjelpe.
Frist: minst 4 uker for arrangementet. I noen tilfeller kan 2 uker være nok.
Det er viktig at du som amangerer dette informerer og avklarer med foredragsholdere at de samtykker til træmming og opptak.
Kontaktperson
UiB-brukemayn *
Navn •
Fakultet/Avdeling/Institutt/Seksjon *
Telefon *
E-post *
Arrangement
Hva heter arrangementet? *
Rom/sted *
Universitetsaulaen
Annet
Adresse, rom
Fra dato *
/ / /
DD MM YYYY
Fra tid *
Til dato •
DO MM YYYY

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Solution 2: example





Things to think about...





- **Time** (A whole lot of precious time)
 - Setup + duration of the lecture
 - Often need multiple takes



- **Time** (A whole lot of precious time)
 - Setup + duration of the lecture
 - Often need multiple takes
- **Money** (A whole lot of spending money)
 - Most softwares are free/available via UiB/IT-Avd
 - Hardware
 - Sound quality: 1000-4000 NOK
 - Video quality: 500-1000 NOK

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- **Time** (A whole lot of precious time)
 - Setup + duration of the lecture
 - Often need multiple takes
- **Money** (A whole lot of spending money)
 - Most softwares are free/available via UiB/IT-Avd
 - Hardware
 - Sound quality: 1000-4000 NOK
 - Video quality: 500-1000 NOK
- Good teaching material (...)
 - Clarity
 - Visual stimuli
 - Keywords, pointer,...

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Hardware

• Buy yourself a good microphone, please!







Røde Filmmaker kit



Hardware

• Buy yourself a good webcam (HD), please!



Microsoft Lifecam



In summary...



Software 1: Techsmith Relay

- simple screencast and videonotes:
- Free at UiB, PC and Mac friendly
- File encoding and storage on remote server
- Provides you with a link to the video sent via email
 - NB: email delivery within minutes up to 36 hours
- Limited possibilities (hard to mess up but limited outcomes)

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Software 2: OBS Studio

- Advanced screencast and streaming
- Flexible platform with many possibilities
- Free, PC, Mac and Linux friendly
- Weak PCs might suffer...
- Local storage of videofiles
- More complexe to use but more possibilities

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DigUiB

- Provides support for Techsmith Relay (http://www.uib.no/en/diguib/90236/screencast)
- Provides services:
 - Videonotes (http://www.uib.no/en/diguib/90227/recording-lectures-videonotes)
 - Live streaming (http://www.uib.no/en/diguib/90250/livestream)
- Contact them!
- Check www.uib.no/diguib/

www.bioceed.no



Any interest for:

- Workshop?
 - Techsmith Relay
 - OBS Studio

Jonathan.Soule@uib.no



Any interest for:

- Workshop?
 - Techsmith Relay
 - OBS Studio
- Website for hosting teaching videos?
 - prelab.uib.no ?
 - flipped.uib.no ?

Jonathan.Soule@uib.no







