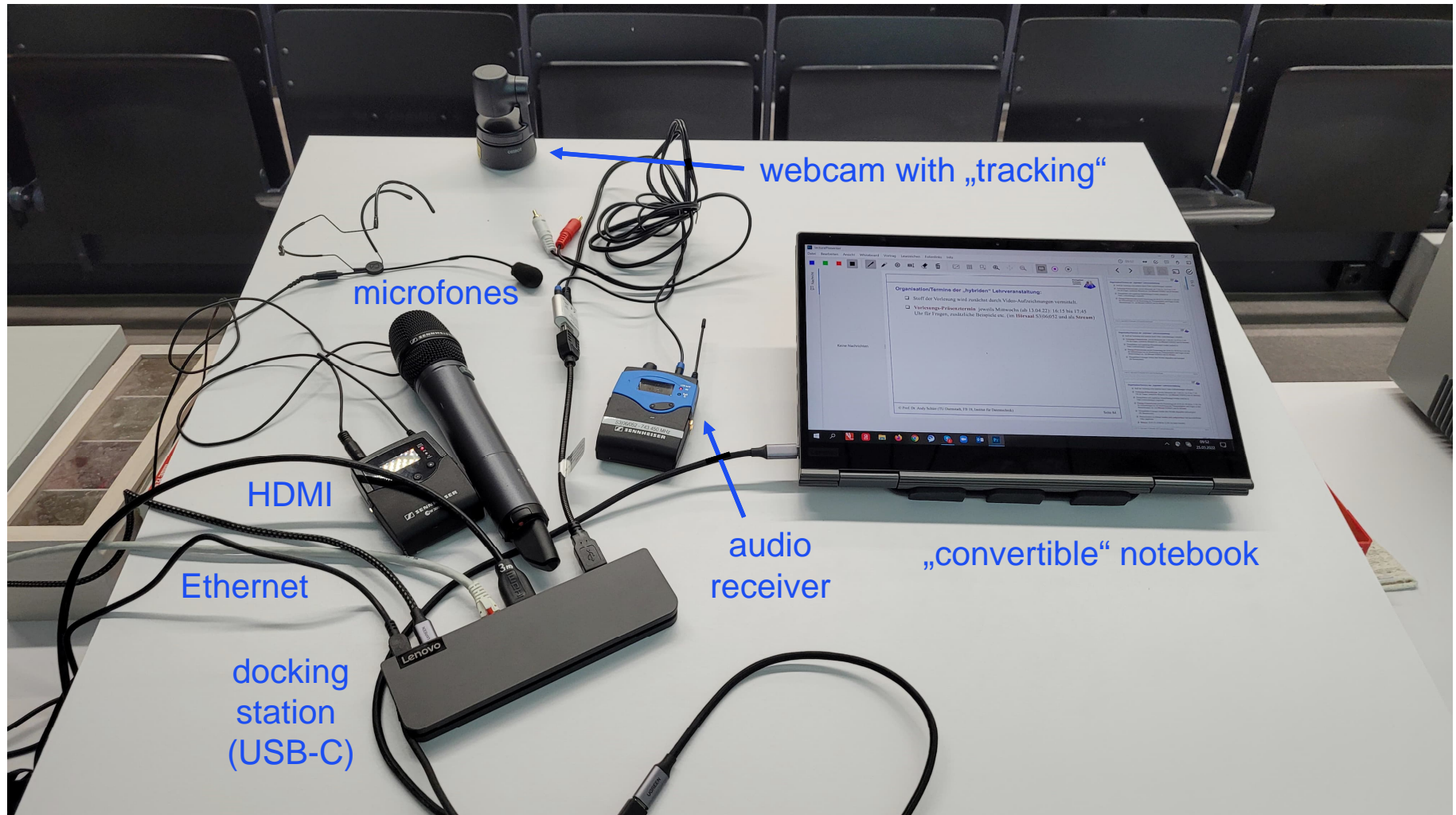


lectureStudio – Tutorial 2: Presenter

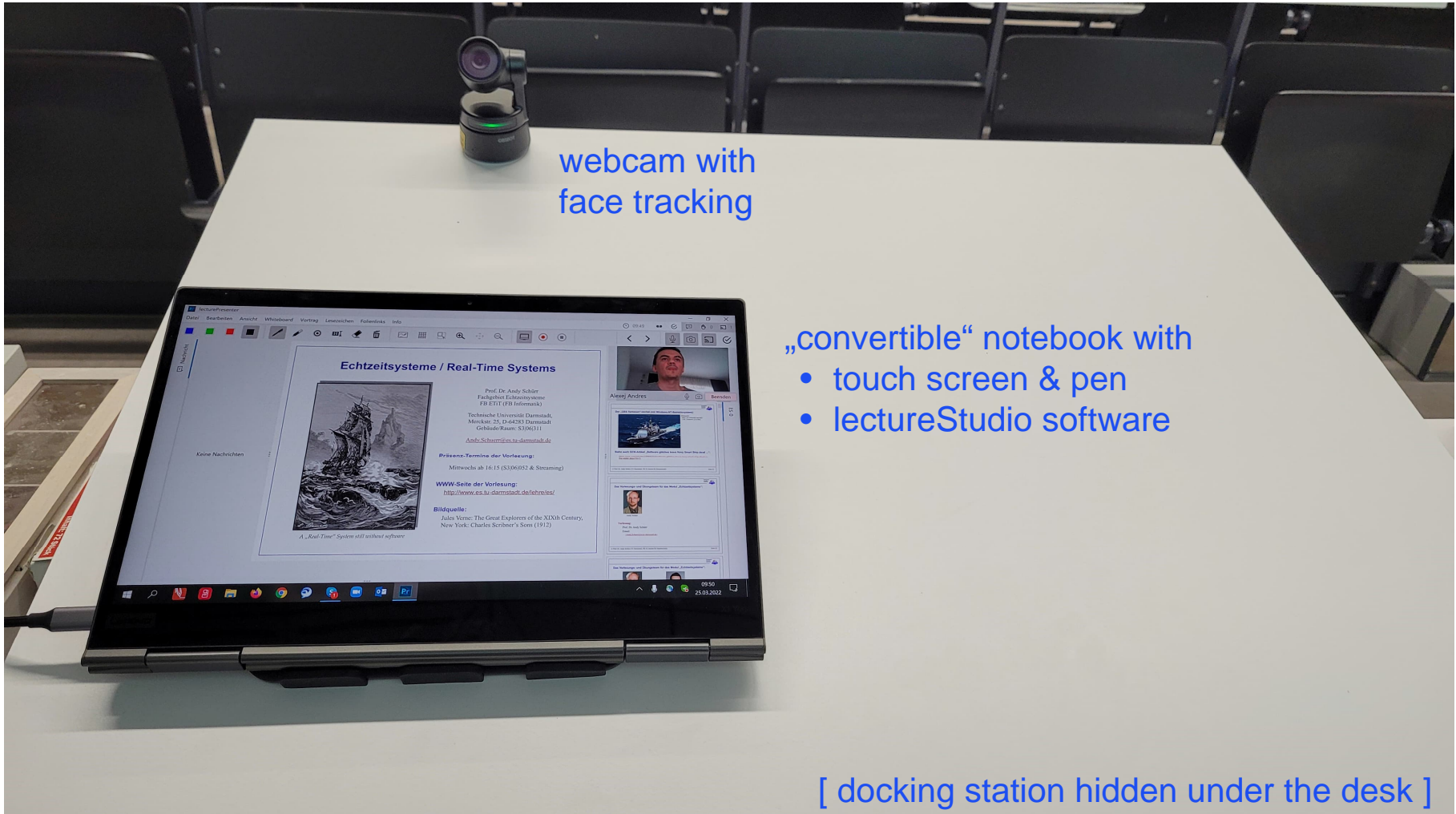
Alex Andres, Andreas Koch, *Andy Schürr*
Technical University of Darmstadt
<https://www.lecturestudio.org>



Hybrid Setting (Lecture Hall & Streaming)



Hybrid Setting (Lecture Hall & Streaming)





Categories of eTeaching Tools

- presentation tools (with integrated whiteboard)
 - PowerPoint, pdfpc, ...
- presentation recording and postprocessing tools
 - Panopto, Camtasia, Snagit, ...
- streaming / video conference tools
 - BigBlueButton, Zoom, ...
- interactive poll/quiz execution tools
 - Pingo, Moodle, ...
- interactive group chat tools
 - Element, Zoom, ...
- ...

**lecture-
Studio**

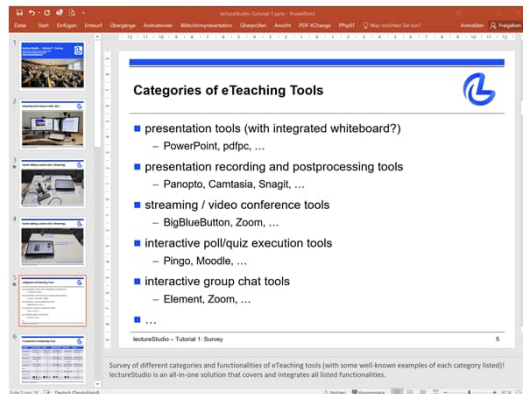


Categories of eTeaching Tools

- presentation tools (with integrated whiteboard)
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- ...

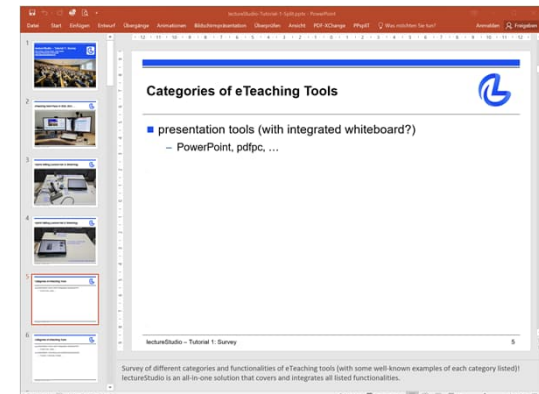
**lecture-
Studio**

Starting Point: PDF Document (or ppt)



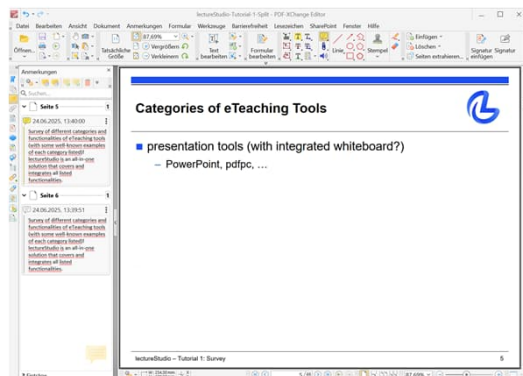
Powerpoint presentation
(with animations)

PPspliT
(Powerpoint plugin)



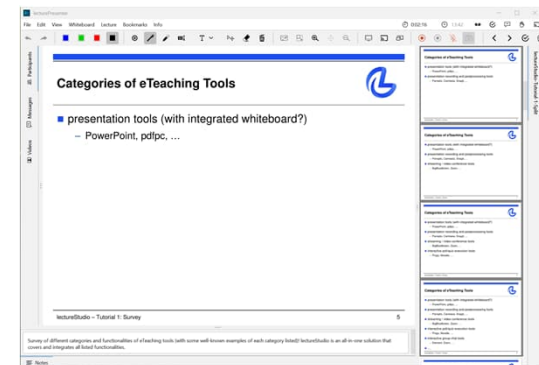
Powerpoint presentation
(with unfolded animations)

PDF creation



PDF presentation
(with embedded comments)

open



presentation, recording, streaming
(with lectureStudio Presenter)

lectureStudio Presenter – User Interface



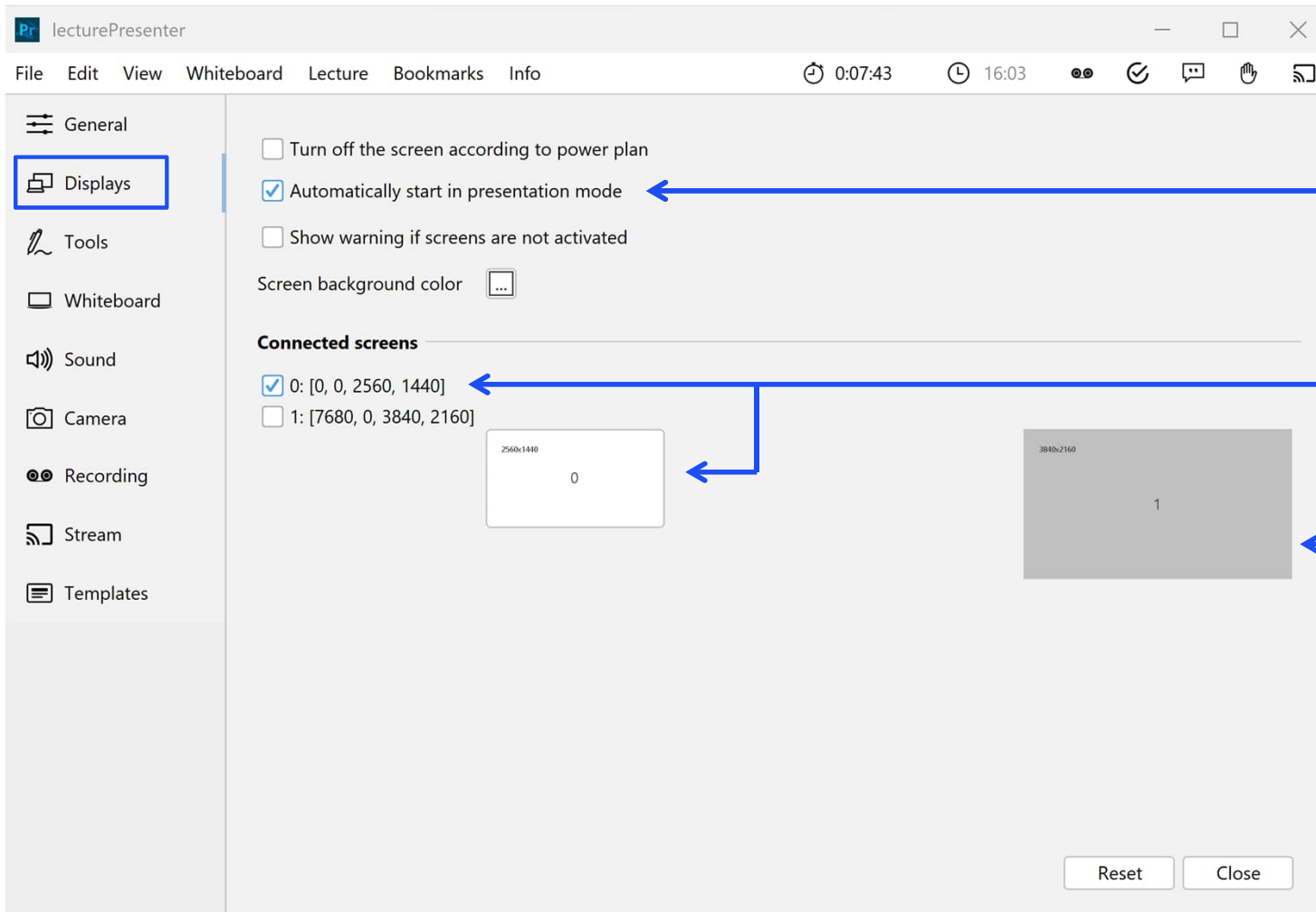
← config.
tool bar

← slide
preview

← presented
slide

← notes

lectureStudio Presenter – Configuration Options

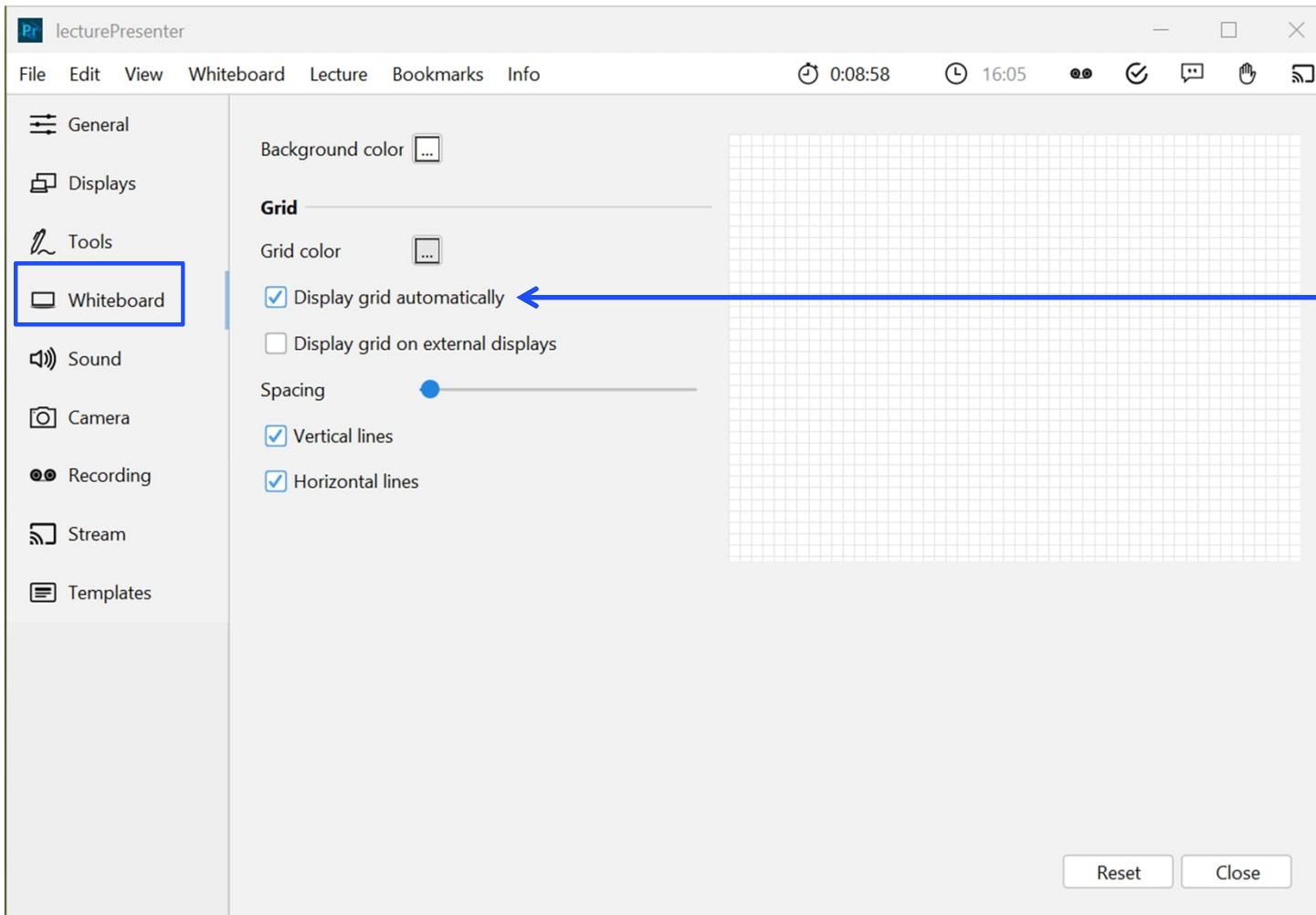


activates
beamer
display

selects
beamer
display

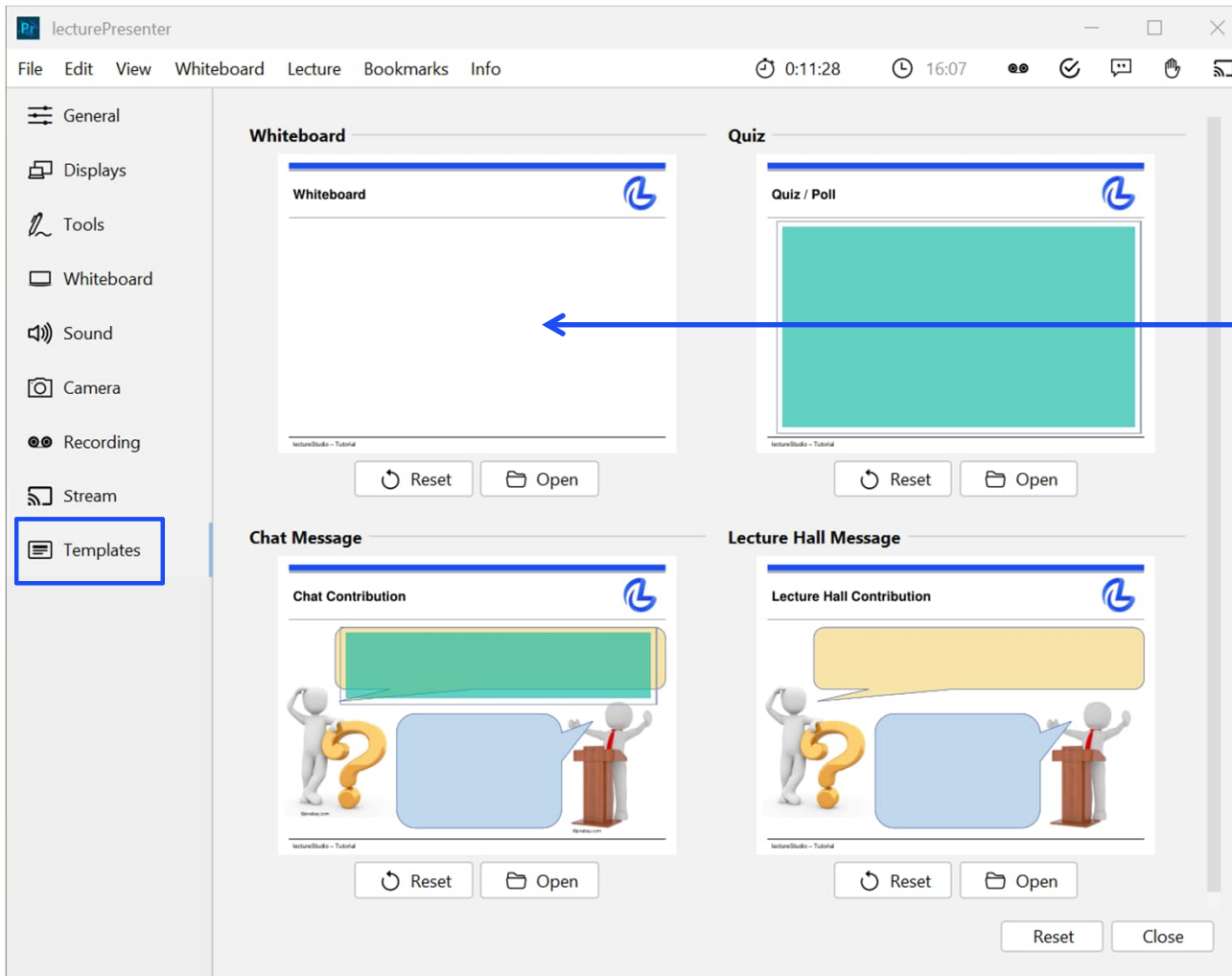
notebook
display

lectureStudio Presenter – Configuration Options



activates
whiteboard
grid auto.

lectureStudio Presenter – Configuration Options



whiteboard
page
template

lectureStudio Presenter – First Steps ...



The screenshot shows the lectureStudio Presenter interface. The main window displays a presentation slide titled "Starting Point: PDF Document (or ppt)". The slide content includes a diagram showing the relationship between different presentation formats and tools. The diagram shows a "Powerpoint presentation (with animations)" and a "PDF presentation (with embedded comments)" both leading to a "presentation, recording, streaming (with lectureStudio Presenter)". The diagram also shows a "PPspliT (Powerpoint plugin)" and an "open" button. The sidebar on the right contains navigation controls, including a "check!" button, a "slide fwd or back" button, and a "select next slide" button. The bottom of the interface shows the "lectureStudio – Tutorial 1: Survey" and the page number "13".

Starting Point: PDF Document (or ppt)

Categories of eTeaching Tools

- presentation tools (with integrated whiteboard?)
 - PowerPoint, pdfpx, ...
- presentation recording and postprocessing tools
 - Papego, Camtasia, Snagit, ...
- streaming / video conference tools
 - BigBlueButton, Zoom, ...
- interactive pedagogic execution tools
 - Pingo, Moodle, ...
- interactive group chat tools
 - Element, Zoom, ...

PPspliT
(Powerpoint plugin)

Powerpoint presentation (with animations)

Powerpoint presentation (with unfolded animations)

open

PDF presentation (with embedded comments)

presentation, recording, streaming (with lectureStudio Presenter)

lectureStudio – Tutorial 1: Survey

13

check!
slide
fwd or
back

select
next
slide

lectureStudio Presenter – Annotations



anno-
tation
tools

The screenshot shows the lectureStudio Presenter application window. The 'Lecture' menu is highlighted with a blue arrow. Below the menu, a diagram illustrates the workflow for starting a presentation:

- Starting Point: PDF Document (or ppt)**
- Powerpoint presentation (with animations)** → **PPspliT (Powerpoint plugin)** → **Powerpoint presentation (with unfolded animations)**
- PDF presentation (with embedded comments)** → **open** → **presentation, recording, streaming (with lectureStudio Presenter)**

The diagram also shows the 'lectureStudio Presenter – User Interface' with annotations for 'presented slide' and 'slide preview'.

lectureStudio – Tutorial 1: Survey

13

lectureStudio Presenter – Zooming



lecturePresenter

File Edit View Whiteboard Lecture Bookmarks Info

0:18:36 16:14

Starting Point: PDF Document (or ppt)

PPspliT (Powerpoint plugin)

Powerpoint presentation (with animations) → Powerpoint presentation (with unfolded animations)

open

PDF presentation (with embedded comments) → presentation, recording, streaming (with lectureStudio Presenter)

lectureStudio – Tutorial 1: Survey

13

zoom

Participants Messages Videos

Starting Point: PDF Document (or ppt)

PPspliT (Powerpoint plugin)

Powerpoint presentation (with animations) → Powerpoint presentation (with unfolded animations)

open

PDF presentation (with embedded comments) → presentation, recording, streaming (with lectureStudio Presenter)

lectureStudio Presenter – User Interface

lectureStudio Presenter – User Interface

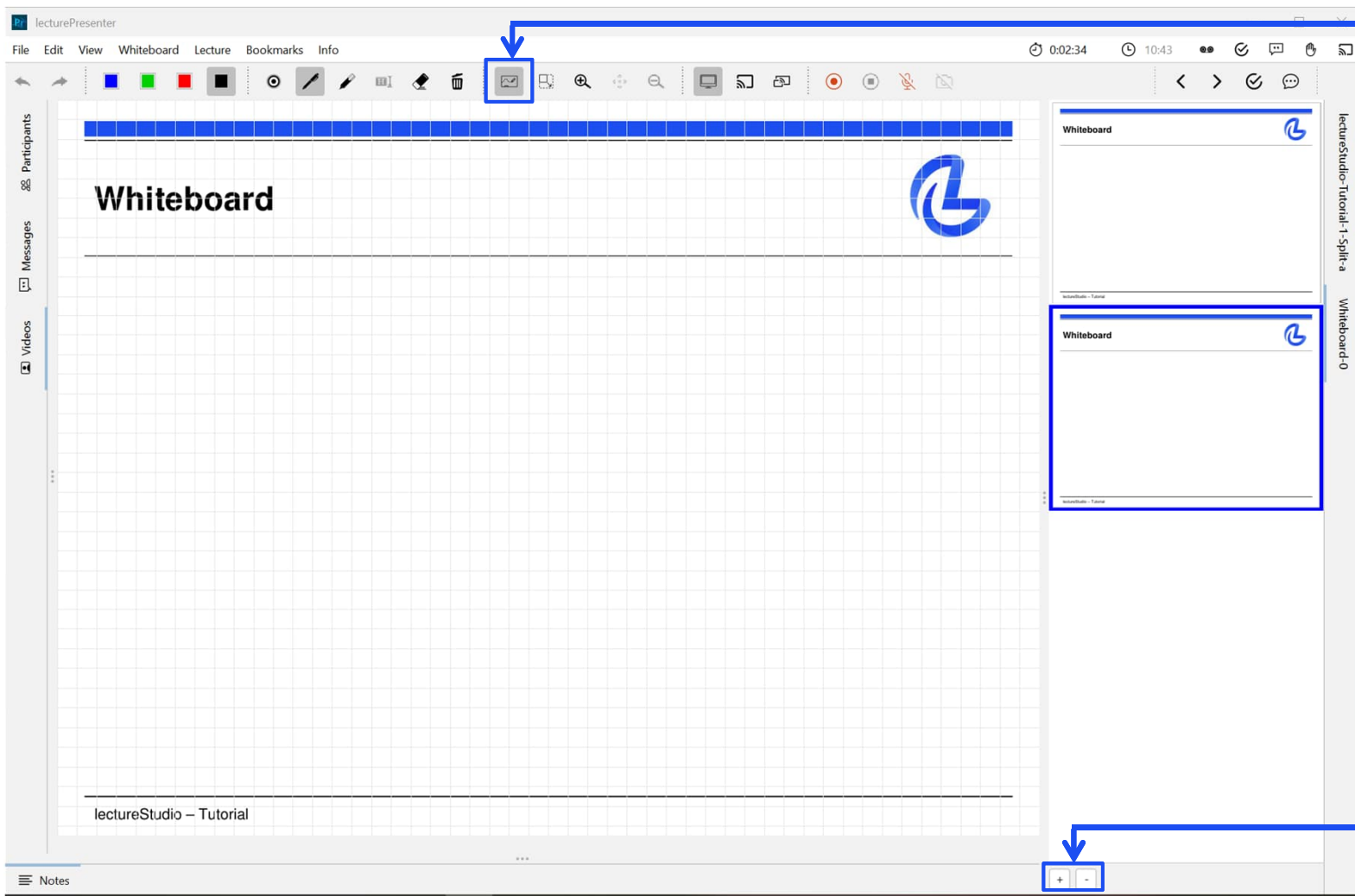
lectureStudio Presenter – User Interface

presented slide

slide preview

presented slide

lectureStudio Presenter – Whiteboard



open
white-
board

add
delete
page

lectureStudio Presenter – Recording Parameters



The screenshot shows the 'lecturePresenter' application window. The 'Sound' option in the left sidebar is highlighted with a blue box. The main panel displays recording settings with numbered callouts 1 through 6:

- 1**: Output device dropdown menu, currently set to 'Lautsprecher (2- USB Audio Device)'.
- 2**: 'Playback' button under the 'Test Speaker' section.
- 3**: Volume slider for the output device.
- 4**: Input device dropdown menu, currently set to 'Mikrofon (2- ThinkPad Thunderbolt 3 Dock USB Audio)'.
- 5**: 'Capture' button under the 'Test Capture' section.
- 6**: Volume slider for the input device.

Other visible settings include 'Noise suppression' (checked, set to 'Low') and a checkbox for 'Automatically adjust recording volume'. The top status bar shows a timer at 0:03:12. 'Reset' and 'Close' buttons are located at the bottom right.

lectureStudio Presenter – Recording Parameters

The screenshot shows the 'lecturePresenter' application window. The 'Recording' tab is selected in the left sidebar. The main area contains several settings: 'Autostart recording when a lecture begins' (unchecked), 'Display a warning message when the recording is not started' (checked, with a blue arrow pointing to it and the text 'recommended!'), 'Confirm the end of the recording' (checked), 'Mix audio streams of all participants' (checked), 'Page recording timeout (ms)' (set to 2000, with a blue arrow pointing to it and the text 'slides displayed shorter than timeout are not recorded'), 'Audio format' (set to 44,100 kHz), and 'Recording directory' (set to C:\Users\schuerr.MITHRANDIR\Desktop with a 'Browse...' button). At the bottom right are 'Reset' and 'Close' buttons. The top bar shows a timer at 0:16:44, a clock at 11:11, and a recording timer at 0:04:47.

lecturePresenter

File Edit View Whiteboard Lecture Bookmarks Info

0:16:44 11:11 0:04:47

General

Displays

Tools

Whiteboard

Sound

Camera

Recording

Stream

Templates

☐ Autostart recording when a lecture begins

☒ Display a warning message when the recording is not started ← recommended!

☒ Confirm the end of the recording

☒ Mix audio streams of all participants

Page recording timeout (ms) ← slides displayed shorter than timeout are not recorded

2000

Audio format

44,100 kHz

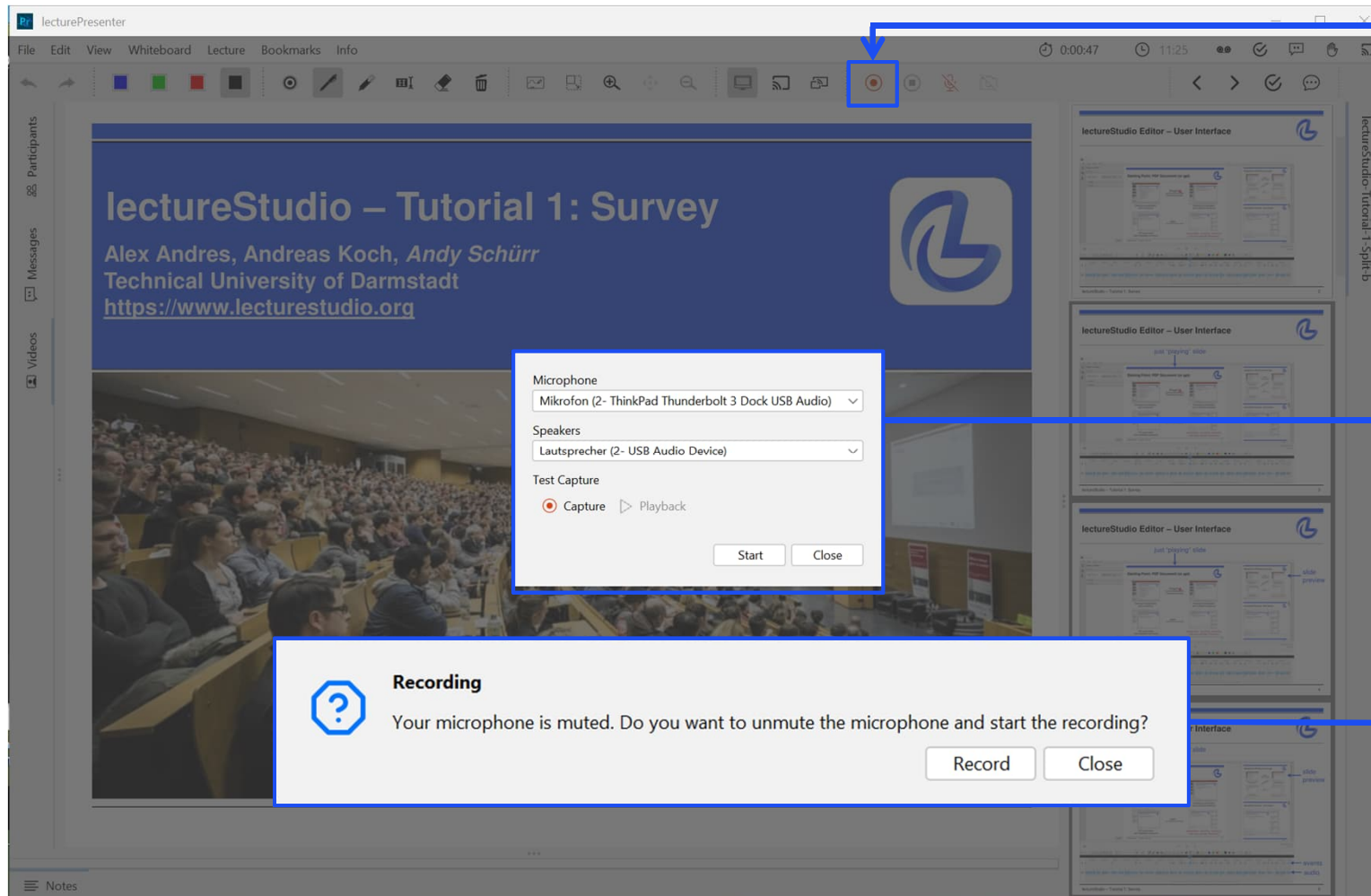
Recording directory

C:\Users\schuerr.MITHRANDIR\Desktop

Browse...

Reset Close

lectureStudio Presenter – Start Recording



start
record

select
mic.

unmute
mic.

lectureStudio Presenter – Pause Recording



lecturePresenter

File Edit View Whiteboard Lecture Bookmarks Info

0:13:17 11:08 0:01:20

Categories of eTeaching Tools

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 - Pingo, Moodle, ...
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 - Element, Zoom, ...
- ...

lectureStudio – Tutorial 1: Survey

8

Notes

pause
record



Comparison of eTeaching Tools

Function	lectureStudio	pdfpc	BigBlueButton	Perigo	Zoom
Presentation	PDF + annotat. screenshare	PDF disc + annotations	screenshare, PDF, -> SW	screenshare	screenshare + annotations
Whiteboard	✓	✓	✓	✓	✓
Recording	PDF + events + audio + screens	✓	screenshare, PDF, -> SW	screenshare, audio based	screenshare, audio based
Postprocessing	✓	✓	✓	✓	✓

Comparison of eTeaching Tools

Function	lectureStudio	pdfpc	BigBlueButton	Perigo	Zoom
Presentation	PDF + annotat. screenshare	PDF disc + annotations	screenshare, PDF, -> SW	screenshare	screenshare + annotations
Whiteboard	✓	✓	✓	✓	✓
Recording	PDF + events + audio + screens	✓	screenshare, PDF, -> SW	screenshare, audio based	screenshare, audio based
Postprocessing	✓	✓	✓	✓	✓

Comparison of eTeaching Tools

Function	lectureStudio	pdfpc	BigBlueButton	Perigo	Zoom
Presentation	PDF + annotat. screenshare	PDF disc + annotations	screenshare, PDF, -> SW	screenshare	screenshare + annotations
Whiteboard	✓	✓	✓	✓	✓
Recording	PDF + events + audio + screens	✓	screenshare, PDF, -> SW	screenshare, audio based	screenshare, audio based
Postprocessing	✓	✓	✓	✓	✓

Comparison of eTeaching Tools

Function	lectureStudio	pdfpc	BigBlueButton	Perigo	Zoom
Presentation	PDF + annotat. screenshare	PDF disc + annotations	screenshare, PDF, -> SW	screenshare	screenshare + annotations
Whiteboard	✓	✓	✓	✓	✓
Recording	PDF + events + audio + screens	✓	screenshare, PDF, -> SW	screenshare, audio based	screenshare, audio based
Postprocessing	✓	✓	✓	✓	✓

lectureStudio Presenter – Stop Recording



stop record

The screenshot shows the LectureStudio Presenter interface. A 'Speichern unter' (Save As) dialog box is open, showing the file name 'lectureStudio-Tutorial-1-Split-b-2025_07_03-11_19' and the date type 'Lecture Recording'. A 'Stop recording' confirmation dialog is also visible, asking 'Do you want to stop recording?' with 'End' and 'Continue' buttons. The 'LectureStudio Editor - Available Operations' panel is open on the right, listing various editing operations. A blue arrow points from the 'stop record' text to the 'Stop recording' button in the interface.

Speichern unter

← → ↑ > Dieser PC > Desktop Desktop durchsuchen

Organisieren - Neuer Ordner

Name	Änderungsdatum	Typ
lectureStudio-6.3.1-windows-x86_64	29.06.2025 15:27	Dateiordner
Tutorials	02.07.2025 16:16	Dateiordner
ES - Verknüpfung	11.02.2025 09:33	Verknüpfung
Home	24.06.2024 13:53	Verknüpfung
Intern	24.06.2024 15:39	Verknüpfung
Kratz - Verknüpfung	05.05.2025 09:27	Verknüpfung
lectureStudio	18.02.2025 10:41	Verknüpfung
Nextcloud	01.04.2025 12:11	Verknüpfung
SE-1	19.07.2024 11:57	Verknüpfung

Dateiname: lectureStudio-Tutorial-1-Split-b-2025_07_03-11_19
Dateityp: Lecture Recording

Speichern Abbrechen

Stop recording
Do you want to stop recording?

End Continue

lectureStudio Editor – Available Operations

- Deleting parts of a presentation
- Splitting and merging presentations
- Adding and deleting annotations (highlighting, ...)
- Moving, adding or deleting slide transition events
- Replacing (sequences of) PDF slides
- Noise reduction and loudness normalization
- Video renderings (mp4, pdf-based vector format)

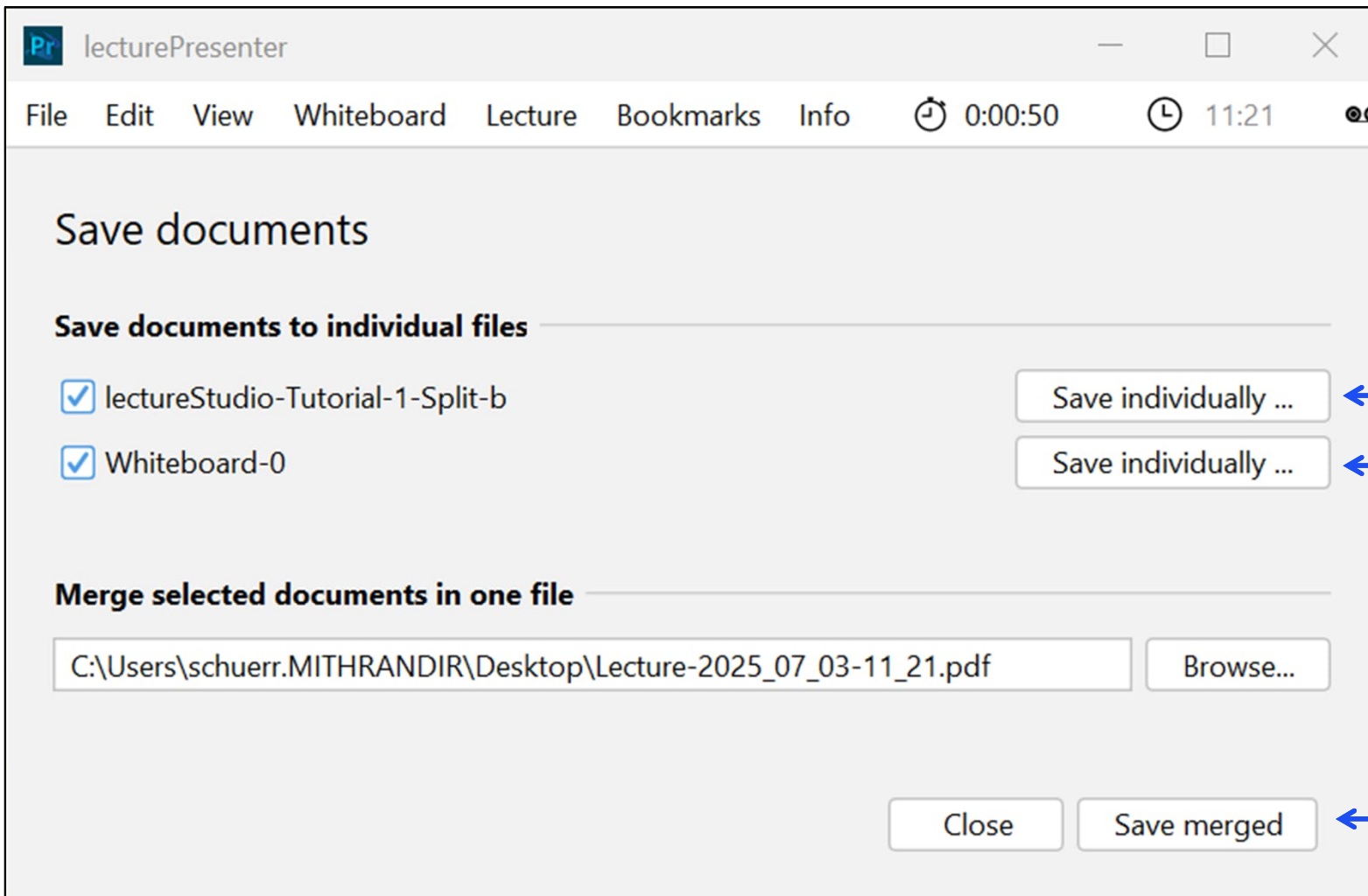
lectureStudio – Tutorial 1: Survey

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Technische Universität Darmstadt
<https://www.lecturestudio.de>

Financial Support:

- Collaborative Research Center 1053/MAKI (<https://www.maki.tu-darmstadt.de/>)
- Dept. of Electrical Engineering & Information Technology, TU Darmstadt (<https://www.etit.tu-darmstadt.de/fachbereich/>)
- Dept. of Computer Science, TU Darmstadt (<https://www.informatik.tu-darmstadt.de/fb20/>)

lectureStudio Presenter – Save Annotated Slides



annot.
slides

white-
board
slides

all
slides

lectureStudio – Tutorial 1: Survey

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- Dept. of Computer Science, TU Darmstadt
(<https://www.informatik.tu-darmstadt.de/fb20/>)