

Android: Screen sharing via HDMI

Solution:

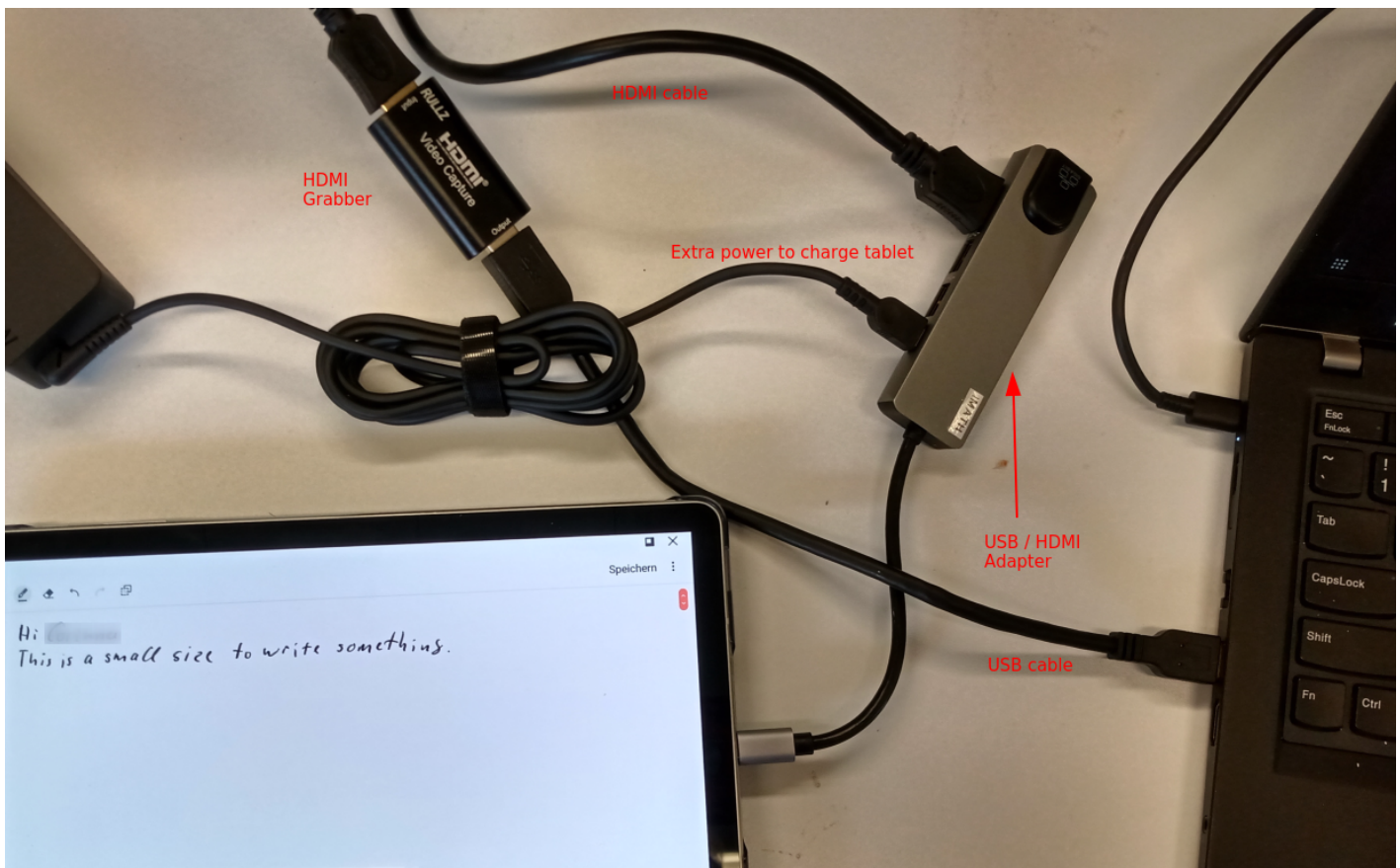
- Share the tablet screen to a Notebook via HDMI.
- The Notebook uses the shared screen
 - a) like a 'webcam' or
 - b) shows the shared screen and reshare the window.

Comparison

- A similar setup can be reached with

Hardware

1. Android Tablet with USB-C connector (Samsung Galaxy S4, S6).
2. USB-C / HDMI Adapter (plugged into the tablet)
3. HDMI cable (between 2 and 4)
4. HDMI capture stick (plugged into the notebook). If the USB port of the HDMI capture stick is too big, use an USB extension.



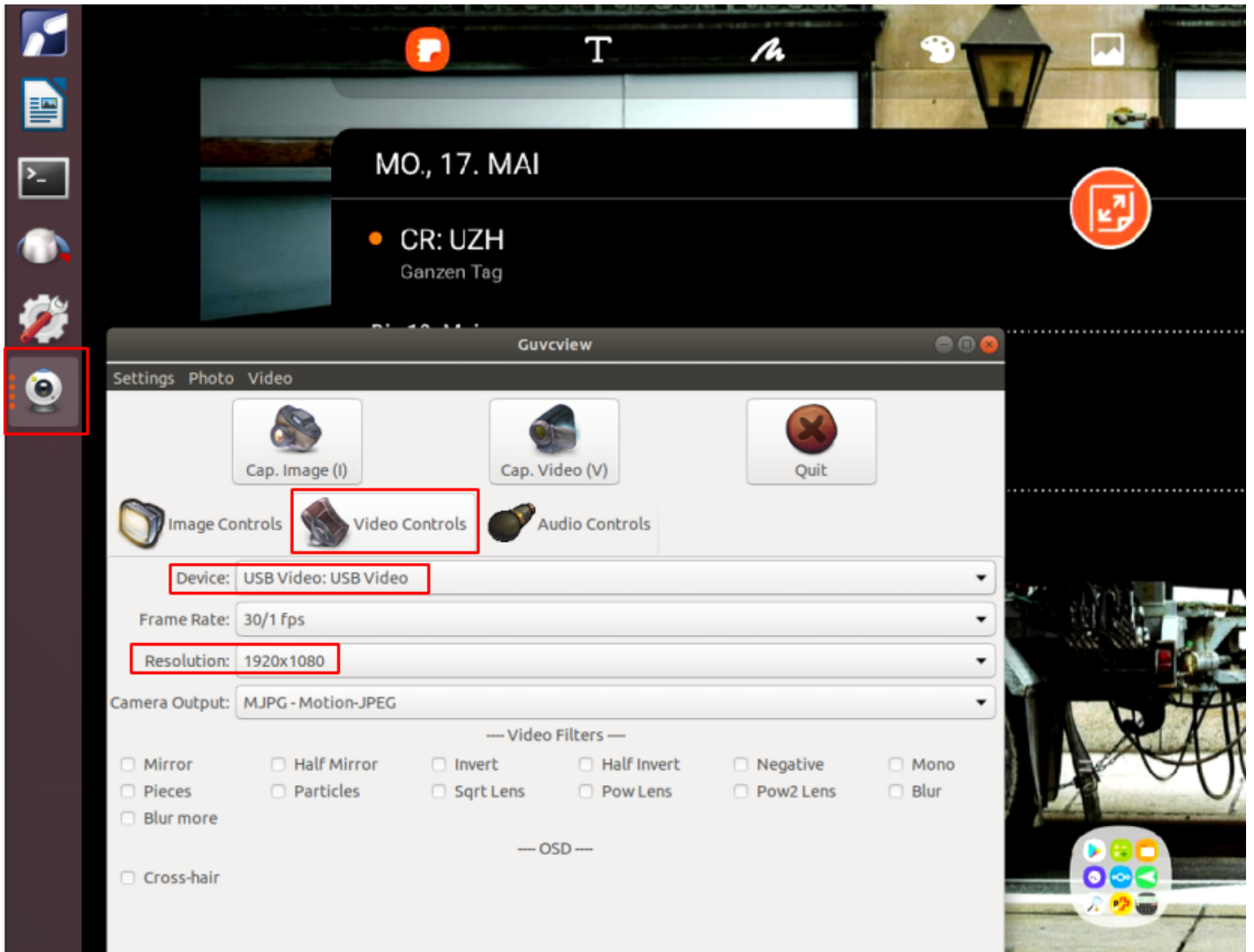
Use with BBB in a Y27 seminar room

Part 1: Setup BBB

- Power on the Seminar room laptop.
- Open the browser.
- Login to MY > start a BBB stream (or use MS-Teams, Zoom).
- Share the notebook screen in BBB - or just the *guvcview* window (see below).
- Students in the room: switch on the beamer (small black box, takes 2 minutes to power on).

Part 2: Share tablet screen

- Connect the tablet with HDMI Capture stick to the notebook (see hardware above).
- Samsung: **do not use Samsung DeX** .. *the tablet will act as a notebook, not as a tablet (in this scenario more disadvantage than advantage).*
- Start `guvcview` (webcam icon on the left panel)
 - Select the right video source:
 - On tab *Video Controls* select device: *USB Video: USB Video*.
 - There are probably two (same name), check both.
 - A popup appears: *Launch new process or restart?* >> **restart**.
- Resolution: 1920x 1080
- Keep the *guvcview* open. To bring the tablet share window to front, click in it.



Conclusion:

- The notebook webcam can still show the speaker.
- A window (=gucvview) is the tablet screen.
- The quality should be fine for streaming as well as beamer presentation (both at the same time).
- The seminar room microphones are used as regular.

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