

Tiny Webcasts for Lecture(r)s

Installation

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Installing “Tiny Webcasts” consists of two simple steps:

- 1 Download and install “Tiny Webcasts”
 - <https://github.com/tillbiskup/tiny-webcasts>
- 2 Install all the required programs
 - Debian Linux and macOS users: use the install scripts

This presentation will show you how to do it. All you need:

- ▶ An internet connection (and web browser)
- ▶ A terminal

Windows is currently not officially supported.

The programs behind “Tiny Webcasts” work exclusively on the terminal and therefore rely heavily on a shell called “bash”.

All required programs and the bash shell should be available for Windows, too. Therefore, “Tiny Webcasts” should work as well.

However, due to lack of experience with this operating system by the authors of “Tiny Webcasts”, the Windows operating system is currently not actively supported.

- 👉 Windows 10 users may use the “Linux subsystem for Windows”.

Download “Tiny Webcasts” from GitHub



1. Type in web address:
<https://github.com/tillbiskup/tiny-webcasts>

2. Click on „Download ZIP“

Unpack and Install “Tiny Webcasts”



- ▶ Downloaded files should end up in the folder “Downloads”
 - The file is named “`tiny-webcasts-master.zip`”
- ▶ Locate the downloaded file
 - Use your graphical file browser
 - Alternatively open a terminal and change into the directory
- ▶ Unpack (unzip) the downloaded file
 - Graphically: by double-clicking on the file
 - Terminal: `unzip tiny-webcasts-master.zip`
- ▶ Install “Tiny Webcasts”
 - From within a terminal

- ▶ Open a terminal
 - macOS: it is called “Terminal”
 - Linux: you will know what to do...
- ▶ Change into the directory where you unpacked the files to
 - `cd Downloads/tiny-webcasts-master`
- ▶ Change into the subdirectory webcasts
 - `cd webcasts`
- ▶ Run the installer
 - `./twc-install.sh`
 - Mind the `./` at the beginning (!)

Unpack and Install “Tiny Webcasts”



```
webcasts — -bash — 60x10
[Tills-MBP:~ till$ cd Downloads/tiny-webcasts-master ]
[Tills-MBP:tiny-webcasts-master till$ cd webcasts/ ]
[Tills-MBP:webcasts till$ ./twc-install.sh ]
Installing twc scripts to /Users/till/bin/ was successful.
Tills-MBP:webcasts till$ █
```

Installation was successful!

- ▶ “Tiny Webcasts” relies on other programs
 - command-line programs
 - open-source and freely available

- ▶ The programs
 - ffmpeg
 - sox
 - metaflac
 - normalize-audio
 - ImageMagick

- ☛ Debian Linux and macOS users: use the install scripts provided
- ☛ macOS users: install Homebrew before

1. Type in web address: `https://brew.sh`

Homebrew

The Missing Package Manager for macOS (or Linux)

English

2. Copy this line and paste it into a terminal

```
/bin/bash -c "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/master/install.sh)"
```

Expect larger downloads

Homebrew requires the Xcode Command Line Tools (CLT) to be installed with macOS.

If you haven't installed these (likely for standard users), Homebrew will do so for you automatically.

Unfortunately, the CLT are quite bulky, therefore expect downloads **exceeding one gigabyte!**

Nevertheless, you need to install Homebrew and CLT only once, and Homebrew is generally a very useful tool.

Debian (and Ubuntu) Linux users

- ▶ Type the following commands into a terminal:

```
apt install ffmpeg
apt install sox
apt install flac
apt install normalize
apt install imagemagick
```

- ▶ Alternatively, use the appropriate script:

```
cd /Downloads/tiny-webcasts-master/webcasts
./twc-install-dependencies-debian.sh
```

macOS users with Homebrew installed

- ▶ Type the following commands into a terminal:

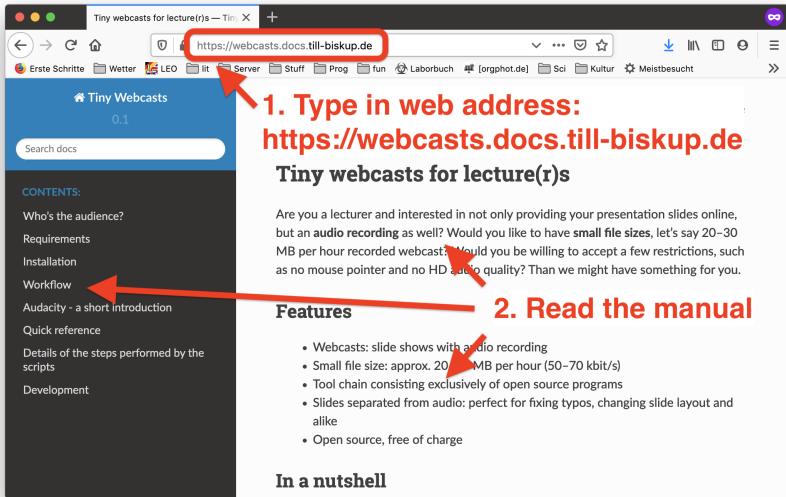
```
brew install ffmpeg
brew install sox
brew install flac
brew install normalize
brew install imagemagick
```

- ▶ Alternatively, use the appropriate script:

```
cd /Downloads/tiny-webcasts-master/webcasts
./twc-install-dependencies-macos.sh
```

- ▶ Look at the documentation
 - <https://webcasts.docs.till-biskup.de/>
- ▶ Install Audacity (optional)
 - <https://www.audacityteam.org/download/>
- ▶ Record your first webcast
 - Pay attention to the tips and tricks in the documentation

Need help? There are presentations (webcasts) for some of these steps.



1. Type in web address:
<https://webcasts.docs.till-biskup.de>

Tiny webcasts for lecture(r)s

Are you a lecturer and interested in not only providing your presentation slides online, but an **audio recording** as well? Would you like to have **small file sizes**, let's say 20-30 MB per hour recorded webcast? Would you be willing to accept a few restrictions, such as no mouse pointer and no HD audio quality? Then we might have something for you.

Features

- Webcasts: slide shows with audio recording
- Small file size: approx. 20-30 MB per hour (50-70 kbit/s)
- Tool chain consisting exclusively of open source programs
- Slides separated from audio: perfect for fixing typos, changing slide layout and alike
- Open source, free of charge

In a nutshell

2. Read the manual