

Phonetic fieldwork and experiments with phonfieldwork package for R

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Most phonetic research consists of the following steps:

- 1 Formulate a research question. Think of what kind of data is necessary to answer this question, what is the appropriate amount of data, what kind of annotation you will do, what kind of statistical models and visualizations you will use, etc.
- 2 Create a list of stimuli.
- 3 Elicite list of stimuli from speakers who signed an Informed Consent statement, agreeing to participate in the experiment to be recorded on audio and/or video.
- 4 Annotate the collected data.
- 5 Extract the information from annotated data.
- 6 Create visualizations and evaluate your statistical models.
- 7 Report your results.
- 8 Publish your data.

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The `phonfieldwork` package is created for helping with items 3, partially with 4, and 5 and 8.

Why/when do you need the `phonfieldwork` package?

These ideal plan hides some technical subtasks:

- creating a presentation for elicitation task
- renaming and concatenating multiple sound files recorded during a session
- automatic annotation in Praat TextGrids [[Boersma and Weenink 2019](#)]
- creating a searchable `.html` table with annotations, spectrograms and ability to hear sound
- converting multiple formats (Praat, ELAN [[Brugman et al. 2004](#)] and EXMARaLDA [[Schmidt and Wörner 2009](#)])

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- any programming language can handle automatic file renaming
- Praat contains scripts for concatenating and renaming files

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`phonfieldwork` provides a functionality that will make it easier to solve those tasks independently of any additional tools. You can also compare the functionality with other R packages:

`rPraat` [[Bořil and Skarnitzl 2016](#)] and `textgRid` [[Reidy 2016](#)].

Send me a letter!
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Presentation is available here:
tinyurl.com/y3wtkcbq



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