

# Creating a tool that lets people listen to Wikipedia

[Sebastian Berlin](#)



Wikimania 2021

# The Wikispeech projects



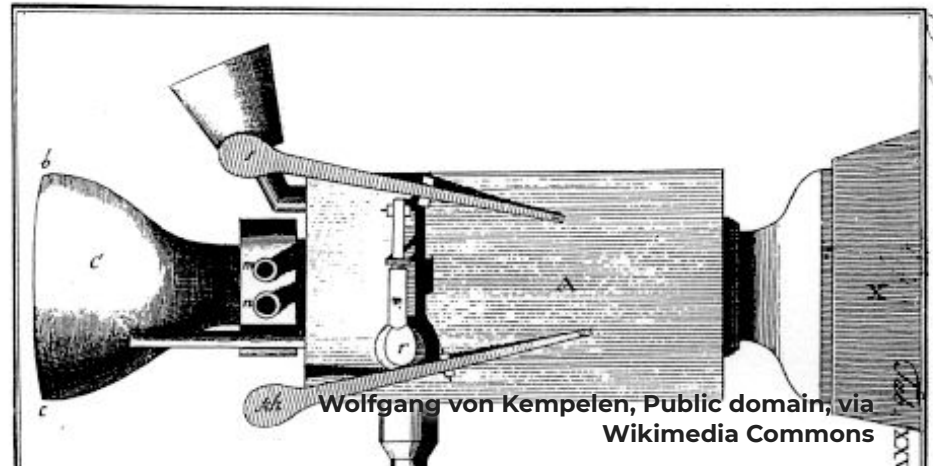
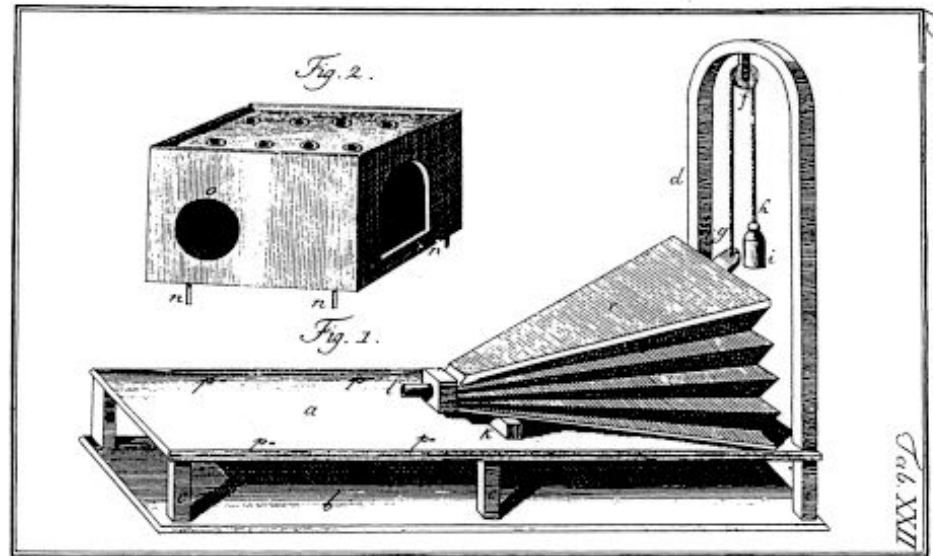
# Wikispeech 2016

- Initial project
- March 2016 to September 2017
- Funded by The Swedish Post and Telecom Authority (PTS)
- The goal was a text-to-speech tool for Wikipedia

# Wikispeech 2019

- Follow up project
- September 2019 to March 2021
- Also funded by PTS
- The goal was a tool for collecting speech data
- Also wrapping up Wikispeech 2016

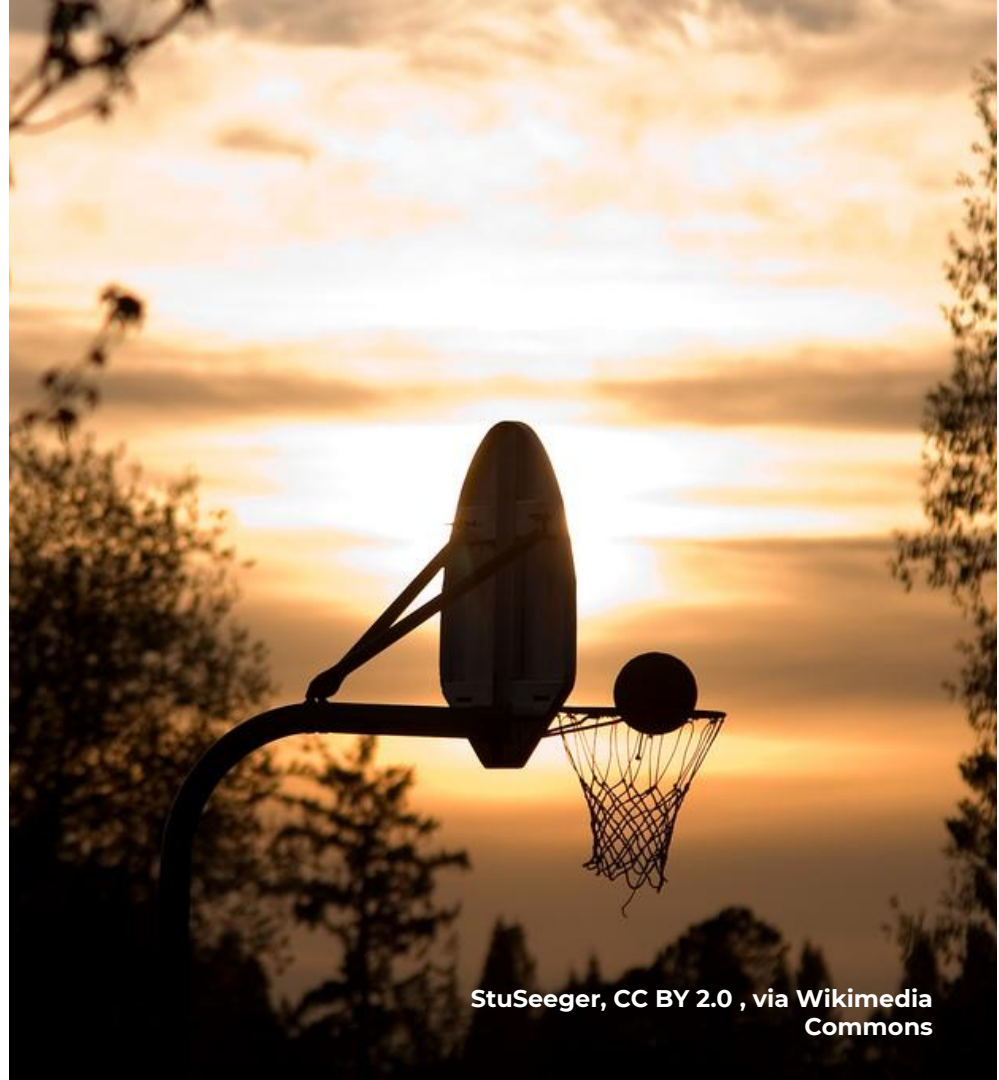
# Wikispeech text-to- speech



# Goal

- Create a text-to-speech tool for Wikipedia
- Easily available to everyone
- Open source

- Extendable to multiple languages
- Improvements from the community



# Motivation

- A significant amount of potential consumers prefer listening
- No freely available solution
- Tailored for Wikipedia



# Implementation

- An extension for MediaWiki
- Heavy work is done on the server
- Any modern browser is enough

- Lexicon that can be improved
- Caching of various resources



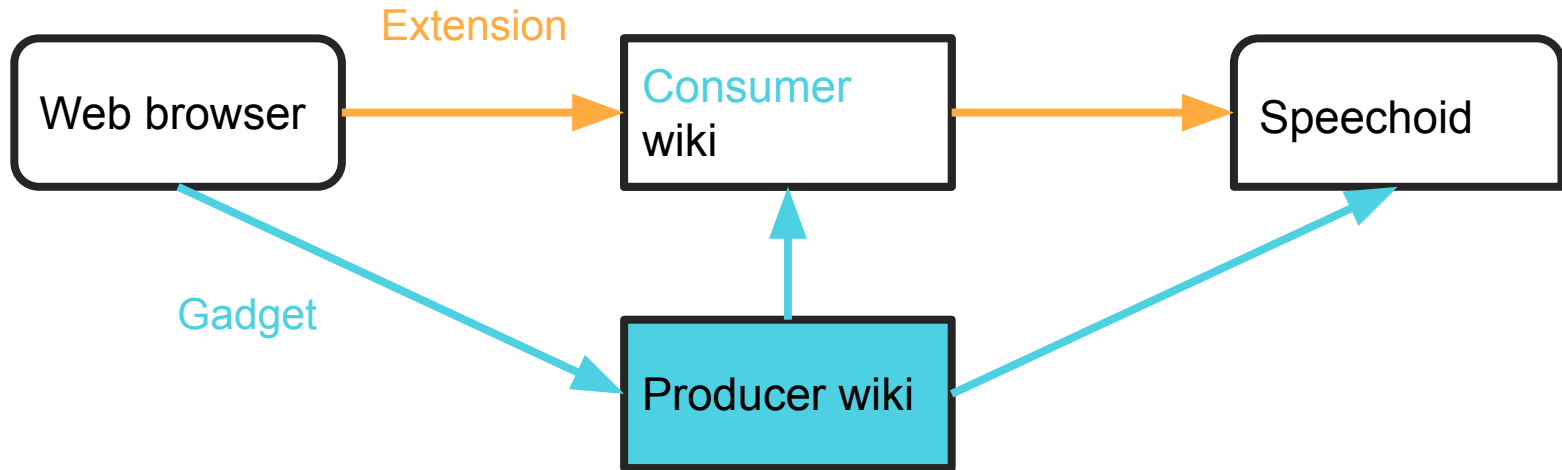
# Difficulties

- Finding good, open source TTS
- Lacking documentation for deploying extensions on Wikipedia
- WMF could not support adding to Wikipedia

# Result

- Extension for MediaWiki
- TTS Service (“Speechoid”)
- Support for running as a gadget on a separate wiki
- Interface for editing lexicon

# Extension vs. gadget



# Now

- Producer wiki and Speechoid hosted by WMSE
- Testing with SVWP
- Maintenance and bug tracking
- Looking for project opportunities



# Demo time!

# Wikispeech speech data collector



Nomad Tales, CC BY-SA 2.0 , via Wikimedia Commons



# Goal

- Create a tool for collecting speech data
- Easy to use for the Wikimedia community
- Data can be enriched for maximum usefulness

# Motivation

- Lots of recorded speech required for speech technology applications
- There are not that much freely available speech data
- Improve Wikispeech TTS

# Implementation

- MediaWiki extension
- Manuscript generation
- Basic implementation in place
- Still requires work to be useable

# Future

- Improve TTS
- Expand with more languages
- Finish implementing speech data collector

Tack!



WIKIMEDIA  
SVERIGE

# Links

- Project page: <https://meta.wikimedia.org/wiki/Wikispeech>
- Extension documentation: <https://www.mediawiki.org/wiki/Extension:Wikispeech>
- Demo wiki: <https://wikispeech.wmflabs.org/>