

# Package: careleswhisper (via r-universe)

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**Type** Package

**Title** Automatic Speech Recognition using Whisper.cpp

**Version** 0.1.1

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**Description** Wrapper for whisper.cpp to perform automatic speech recognition.

**License** MIT + file LICENSE

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 7.2.3

**Depends** R (>= 2.10)

**Repository** <https://coolbutuseless.r-universe.dev>

**RemoteUrl** <https://github.com/coolbutuseless/careleswhisper>

**RemoteRef** HEAD

**RemoteSha** 958ae396d5ae62d666aeb4f21044d9a66fd2c783

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jfk	<i>Audio sample for testing</i>
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**Description**

Audio sample for testing

**Usage**

jfk

**Format**

An object of class `audioSample` of length 176000.

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record_audio	<i>Record audio from the default input device</i>
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**Description**

Record audio from the default input device

**Usage**

```
record_audio(seconds)
```

**Arguments**

seconds	recording length
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**Value**

Numeric vector of mono sound data sampled at 16kHz

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whisper	<i>Perform automatic speech recognition of the given sound sample</i>
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## Description

Perform automatic speech recognition of the given sound sample

## Usage

```
whisper(ctx, snd, params = list(), verbose = FALSE, details = FALSE)
```

## Arguments

ctx	whisper context (which you have previously created using <code>whisper_init()</code> )
snd	Sound data. 16kHz mono audio in a numeric vector with all values in the range [-1, 1]. This package includes the function <code>record_audio()</code> which will record audio in this format. You could also use <code>audio::record()</code> or any other audio package you have access to.
params	parameters for whisper. A user should usually create a default set of parameters by calling <code>whisper_param_defaults()</code> and then modify.
verbose	logical. be verbose? default: FALSE.
details	logical. return detailed breakdown as a <code>data.frame</code> ? default: FALSE

## Value

Character string

## Examples

```
## Not run:  
ctx <- whisper_init() # Initialise the model  
snd <- record_audio(2) # record 2 seconds of audio  
whisper(ctx, snd)     # perform speech recognition  
  
## End(Not run)
```

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whisper\_default\_params

*Fetch a copy of the default whisper parameters*

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### Description

**n\_threads** Number of threads to use when processing. Default: 4

**translate** Translate from source language into english? Default: FALSE

**language** language represented in audio. Use 'auto' to automatically detect language. Default: 'en'

**max\_len** maximum segment length in characters. Default: 0 (meaning no limit. Set to 1 to get one-word-per-segment.)

### Usage

```
whisper_default_params()
```

### Value

Named list of default parameters

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whisper\_init

*Initialise whisper by loading a model*

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### Description

Initialise whisper by loading a model

### Usage

```
whisper_init(
  model_path = system.file("ggml-tiny.bin", package = "carelesswhisper", mustWork = TRUE),
  verbose = FALSE
)
```

### Arguments

**model\_path** path to whisper.cpp model. By default this will use the "ggml-tiny.bin" file included with this package installation, which is a tiny multi-language model. See README for this package, or the original whisper.cpp documentation, for how to download other models.

**verbose** Be verbose about model initialisation? Logical. Default: FALSE

### Value

whisper context (ctx)

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`whisper_lang_codes`     *Named list of two-letter language codes to use as language parameter*

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**Description**

Named list of two-letter language codes to use as language parameter

**Usage**

`whisper_lang_codes`

**Format**

An object of class `list` of length 99.

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