Package 'karaoke'

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Type Package

Title Remove Vocals from a Song

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Description Attempts to remove vocals from a stereo '.wav' recording of a song.

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Depends tuneR, seewave

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karaoke-package *Remove Vocals from a Song*

Description

Attempt to remove vocals from a stereo '.wav' recording of a song.

Author(s)

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References

Well known trick.

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karaoke   *Remove vocals from a song*

Description

Attempt to remove vocals from a stereo '.wav' recording of a song.

Usage

```
karaoke(infile = NULL, outfile = NULL, sampf = NULL)
```

Arguments

infile   filename of a stereo '.wav' recording of a song

outfile   filename for the output '.wav' file

sampf   sometimes optional sampling frequency

Author(s)

John R. Dixon <gbm2sas@gmail.com>

References

Well known trick.

Examples

```
#We use some '.wav' samples included in the seewave package to construct an example.
data(orni)
data(peewit)
data(tico)
#Extend all the samples to be at least 20 seconds long.
for(loop in 1:5) orni<-pastew(orni,orni,f=22050, output="Wave")
for(loop in 1:5) peewit<-pastew(peewit,peewit,f=22050, output="Wave")
for(loop in 1:5) tico<-pastew(tico,tico,f=22050, output="Wave")
#Cut all samples down to exactly 20 seconds long.
orni<-cutw(orni,f=22050,from=0,to=20, output="Wave")
tico<-cutw(tico,f=22050,from=0,to=20, output="Wave")
peewit<-cutw(peewit,f=22050,from=0,to=20, output="Wave")
#Construct and write the example song to a '.wav' file. The tweeting bird, "tico", will be the
#"vocalist", mixed to center. The "rhythm section" will be "orni" and "peewit", not mixed to
#center. (Usually in stereo song recordings, the vocals are most mixed to center, allowing the
#trick employed by the "karaoke" function to work.)
left<-normalize(tico+orni)
right<-normalize(tico+peewit)
```

```
wobj<-stereo(left,right)
slot(wobj,"pcm")<-FALSE
writeWave(wobj, filename="song.wav")
#Make the karaoke version: the vocal from "tico" is removed.
karaoke(infile="song.wav", outfile="song4karaoke.wav")
file.remove("song.wav")
file.remove("song4karaoke.wav")
```

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