WaveSurfer for R

Athos Petri Damiani

An interactive soundwave player and visualizer with rich set of plugins. It works well with pipe (%>%) and can be used in Shiny. It is an interface of 'wavesurfer.js' JavaScript library and it is based on 'htmlwidgets' R package.

Examples

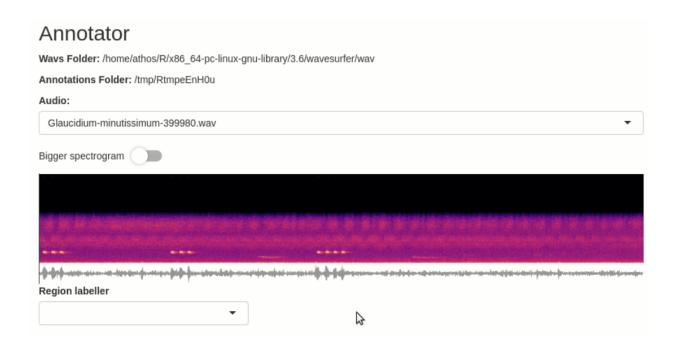
Usage at shiny app:

```
library(wavesurfer)
library(shiny)
ui <- fluidPage(
  wavesurferOutput("my_ws"),
  tags$p("Press spacebar to toggle play/pause."),
  actionButton("mute", "Mute", icon = icon("volume-off"))
server <- function(input, output, session) {</pre>
  output$my_ws <- renderWavesurfer({</pre>
    wavesurfer(audio = "http://ia902606.us.archive.org/35/items/shortpoetry_047_librivox/song_cjrg_teas
      ws_set_wave_color('#5511aa') %>%
      ws_spectrogram() %>%
      ws_cursor()
  })
  observeEvent(input$mute, {
    ws_toggle_mute("my_ws")
  })
}
shinyApp(ui = ui, server = server)
```

Annotator

live app: athos.shinyapps.io/wavesurfer_annotator/

```
wavesurfer::runExample("annotator")
```



Plugins

live app: athos.shinyapps.io/wavesurfer_plugins/

Plugins
Audio
Glaucidium-minutissimum-203416.wav

Minimap OFF spectrogram OFF timeline OFF cursor OFF annotator

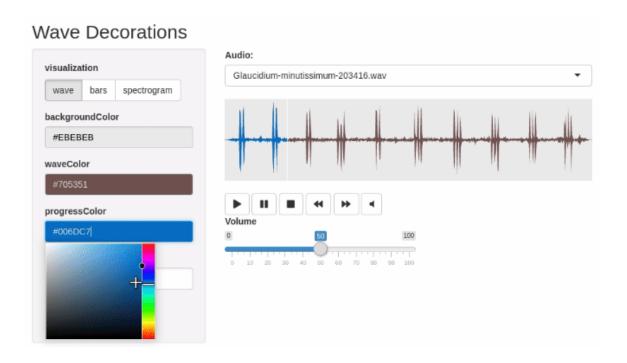
Region labeller

Volume

1 20 1000

Wave Decorations

live app: athos.shinyapps.io/wavesurfer_decoration/



Acknowledgement

The main actors that made this package possible were:

- htmlwidgets package;
- This tutorial by Dean Attali and his timevis package from which I copy pasted massively.
- wavesurfer.js library by katspaugh.
- This annotator that inspired me for make the spectrogram visualization for wavesurfer.js 3.0.0. A lot of ctr+C/ctr+V too.
- wikiaves.com.br from where I took audio examples for the showcases.

Thank you very much for your work.