Jobaline Voice Analyzer - Journal

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April 13, 2015

generating graphs into slides

summary

- plot.ly is limiting, converting only certain graphs (those generated with ggplot), having to publish on their platform only, and being buggy (causing error in our environment)
- going back to github pages that I had trouble making work previously, much wrangling and finally get it working
  - set up ssh key on github, https://help.github.com/articles/generating-ssh-keys/
  - install ssh-askpass on the local machine so that R `publish` function can check in code directly from R to github, https://github.com/markcarver/mac-ssh-askpass
- this enables us to publish a HTML5 slide deck on github page without exposing the code
  - create a repo, eg., "voiceProfile", clone it, and checkout an orphan branch
  - in R, do `slidify("index.Rmd")`
  - use `publish(user = "yingli", repo = "voiceProfile")` will check in the code to the orphan branch
  - then the page can be viewed at http://yingli.github.io/yingli/voiceProfile
  - we may not want to use `publish` to check in inside R and instead use command line git command to check int indivisual HTML and dependent files, to ensure gh-pages not publish something we are not aware of
  - we could also use github gc command `git gc --prune=now` to clean the orphan repo to be sure not leaving things behind that we don't want to expose

install slidify and plotly

```
library(devtools)
install_github('ramnathv/slidify', 'ramnathv')
install_github('ramnathv/slidifyLibraries', 'ramnathv')
install_github("ropensci/plotly")
```

plot some toy graphs into plotly

```
library(plotly)
set_credentials_file("yingli", "vvjha5d15m")
py <- plotly()

trace0 <- list(
x = c(1, 2, 3, 4),
y = c(10, 15, 13, 17)
```

```
)
trace1 <- list(
x = c(1, 2, 3, 4),
y = c(16, 5, 11, 9)
)
response <- py$plotly(trace0, trace1, kwargs=list(filename="basic-line", fileopt="overwrite"))

dsamp <- diamonds[sample(nrow(diamonds), 1000), ]
qplot(carat, price, data=dsamp, colour=clarity)

py <- plotly()
py$ggplotly()
```

generate slides for voice profile

- a self contained R code to generate slides of voice profile graphs, in directory `./voiceProfile`
- run `slidify` on the R code, it will generate the slide deck html in the directory `./voiceProfile`, as well as dependent assets and libraries
- put on github
  - create a github repo `vocieProfile`, then clone it to the local machine `git clone http://github.com/yingli/voiceProfile`, cd to the directory of the repo
  - checkout an orphan branch of it, 'git checkout –orphan gh-pages
  - check in the html file to the gh-pages branch `git add index.html`, and the dependent directories, `git add assests/*`, `git add libraries/*`
  - commit the check in `git commit -a`, and push to gh-pages `git push origin gh-pages`
- then the page can be viewed at http://yingli.github.io/yingli/voiceProfile

```
library(slidify)
slidify("./voiceProfile/index.Rmd")
```