

January 7, 2015

0.0.1 genNavbar

`genNavbar` generates a navigation bar for a web page. The html file created is generally written to the project's `docs/Rmd/include` directory. However, if this function is used to create a navbar for a Github user web page, the html file should be stored in a sensible location inside the user pages repository, e.g., `leonawicz.github.io/assets`.

The common navigation bar html is included at the beginning of the body of the html for each web page in the project's website. `menu` is a vector of names for each dropdown menu. `submenus` is a list of vectors of menu options corresponding to each menu. `files` is a similar list of vectors. Each element is either an html file for a web page to be associated with the submenu link, "header" to indicate the corresponding name in `submenus` is only a group label and not a link to a web page, or "divider" to indicate placement of a bar for separating groups in a dropdown menu.

`theme` can be either `united` (default) or `cyborg`. Both are from Bootstrap. The function must apply some internal differentiation in the construction of the html navigation bar between themes. This is currently the only `rpm` function which attempts to handle multiple Bootstrap themes with different CSS tags.

```
# Functions for Github project websites
genNavbar <- function(htmlfile = "navbar.html", title, menu, submenus, files,
  title.url = "index.html", home.url = "index.html", site.url = "", site.name = "Github",
  theme = "united", include.home = FALSE) {
  if (!(theme %in% c("united", "cyborg")))
    stop("Only the following themes supported: united, cyborg.")

  navClassStrings <- function(x) {
    switch(x, united = c("brand", "nav-collapse collapse", "nav", "nav pull-right",
      "navbar-inner", "container", "", "btn btn-navbar", ".nav-collapse",
      "</div>\n"), cyborg = c("navbar-brand", "navbar-collapse collapse navbar-responsive-collapse",
      "nav navbar-nav", "nav navbar-nav navbar-right", "container", "navbar-header",
      "    </div>\n", "navbar-toggle", ".nav-collapse", ""))
  }

  ncs <- navClassStrings(theme)

  fillSubmenu <- function(x, name, file, theme) {
    if (theme == "united")
      dd.menu.header <- "nav-header" else if (theme == "cyborg")
      dd.menu.header <- "dropdown-header"
    if (file[x] == "divider")
      return("<li class=\"divider\"></li>\n")
    if (file[x] == "header")
      return(paste0("<li class=\"", dd.menu.header, "\">",
        name[x], "</li>\n"))
    paste0("<li><a href=\"", file[x], "\">", name[x], "</a></li>\n")
  }

  fillMenu <- function(x, menu, submenus, files, theme) {
```

```

    m <- menu[x]
    gs.menu <- gsub(" ", "-", tolower(m))
    s <- submenus[[x]]
    f <- files[[x]]
    if (s[1] == "empty") {
      y <- paste0("<li><a href=\"", f, "\">", m, "</a></li>\n")
    } else {
      y <- paste0("<li class=\"dropdown\">\n          <a href=\"", gs.menu,
        "\" class=\"dropdown-toggle\" data-toggle=\"dropdown\">", m,
        " <b class=\"caret\"></b></a>\n          <ul class=\"dropdown-menu\">\n",
        paste(sapply(1:length(s), fillSubmenu, name = s, file = f, theme = theme),
          sep = "", collapse = ""), "          </ul>\n", collapse = "")
    }
  }
}

if (include.home)
  home <- paste0("<li><a href=\"", home.url, "\">Home</a></li>\n          ") else home <- ""
x <- paste0("<div class=\"navbar navbar-default navbar-fixed-top\">\n  <div class=\"",
  ncs[5], "\">\n    <div class=\"", ncs[6], "\">\n      <button type=\"button\" class=\"",
  ncs[8], "\" data-toggle=\"collapse\" data-target=\"", ncs[9], "\">\n      <span class=\"icon-b",
  ncs[1], "\" href=\"", title.url, "\">", title, "</a>\n", ncs[7], "    <div class=\"",
  ncs[2], "\">\n      <ul class=\"", ncs[3], "\">\n        ", home,
  paste(sapply(1:length(menu), fillMenu, menu = menu, submenus = submenus,
    files = files, theme = theme), sep = "", collapse = "\n          "),
  "      </ul>\n      <ul class=\"", ncs[4], "\">\n        <a class=\"btn btn-primary\" href",
  site.url, "\">\n        <i class=\"fa fa-github fa-lg\"></i>\n        ",
  site.name, "\n        </a>\n      </ul>\n    </div><!--/.nav-collapse -->\n  </div>\n ")
  ncs[10], "</div>\n", collapse = "")
sink(htmlfile)
cat(x)
sink()
x
}

```

0.0.2 genOutyaml

genOutyaml generates the `.out.yaml` file for yaml front-matter common to all html files in the project website. The file should be written to the project's `docs/Rmd` directory. `lib` specifies the library directory for any associated files. `yaml includes` for external html common to all project web pages in the site can also be specified with `header`, `before_body`, and `after_body`. These can be specified by file basename only (no path) and the function assumes these files are in the `docs/Rmd/include` directory. At this time all external libraries must be provided by the user, for example in `docs/Rmd/libs`. It is recommended. See the project repo [gh-pages](<https://github.com/leonawicz/ProjectManagement/tree/gh-pages>) branch for an example.

```

genOutyaml <- function(file, theme = "cosmo", highlight = "zenburn", lib = NULL,
  header = NULL, before_body = NULL, after_body = NULL) {
  output.yaml <- paste0("html_document:\n  self_contained: false\n  theme: ",
    theme, "\n  highlight: ", highlight, "\n  mathjax: null\n  toc_depth: 2\n")
  if (!is.null(lib))
    output.yaml <- paste0(output.yaml, "  lib_dir: ", lib, "\n")
  output.yaml <- paste0(output.yaml, "  includes:\n")
  if (!is.null(header))

```

```
    output.yaml <- paste0(output.yaml, "    in_header: ", header, "\n")
  if (!is.null(before_body))
    output.yaml <- paste0(output.yaml, "    before_body: ", before_body,
      "\n")
  if (!is.null(after_body))
    output.yaml <- paste0(output.yaml, "    after_body: ", after_body, "\n")
  sink(file)
  cat(output.yaml)
  sink()
  output.yaml
}
```