0.0.1 genAppDiv

genAppDiv generates an html file storing a container div element which organizes Shiny web applications. The function scans a directory of Shiny app subdirectories. This apps directory should be a local repository.

Specifically, genAppDiv looks for a named directory of image files. There should be one image per app, named exactly as the respective app directory is named. Only apps with corresponding images are built into the html container. If you wish to leave out, say, a developmental app from being linked to on you Github user website, do not include an image file for that app.

The container element includes an image link to each app's url as well as a link to the source code on Github. Although the function scans for images in directory inside a local repository, the images referenced in the output html are of course not local. They point to the same images stored on Github, hence why it is useful for the local directory of apps to be a Github repository. As an example, a repository may contain the directories, app1, app2, app3, and images.

This function will probably be removed in favor of the more general genPanelDiv function.

```
genAppDiv <- function(file = "C:/github/leonawicz.github.io/assets/apps_container.html",</pre>
         github.url = "https://github.com/ua-snap/shiny-apps/tree/master", apps.dir = "C:/github/shiny-apps"
         apps.img <- list.files(file.path(apps.dir, img.loc))</pre>
         apps <- sapply(strsplit(apps.img, "\\."), "[[", 1)</pre>
         x \leftarrow paste0("<div class=\"container\">\n <div class=\"row\">\n
                                                                                                                                                                                <div class=\"col-lg-12\">\n
                   type, "\">", main, "</h3>\n
         fillRow <- function(i, ...) {</pre>
                   app <- apps[i]</pre>
                   app.url <- file.path(apps.url, app)</pre>
                   if (is.null(dots$col))
                             col <- "warning" else col <- dots$col</pre>
                   if (is.null(dots$panel.main))
                             panel.main <- gsub("_", " ", app) else panel.main <- dots$panel.main</pre>
                   if (length(panel.main) > 1)
                             panel.main <- panel.main[i]</pre>
                    x \leftarrow paste0("<div class=\"col-lg-4\">\n\t\t} < div class=\"bs-component\">\n\t\t\t< div class=\"partial partial part
                             panel.main, "</h3>\n\t\t\t </div>\n\t\t\t <div class=\"panel-body\"><a href=\"",
                             app.url, "\" target=\"_blank\"><img src=\"", file.path(gsub("/tree/",
                                        "/raw/", github.url), img.loc, apps.img[i]), "\" alt=\"", apps[i],
                             "\" width=100% height=200px></a>\n\t\t\t\t\div class=\"btn-group btn-grcup-justified\
                             app.url, "\" target=\"_blank\" class=\"btn btn-success\">Launch</a>\n\t\t\t\t\ <a href=\"",
```

0.0.2 genPanelDiv

genPanelDiv generates an html file storing a container div element which in its current state of development organizes two types of content: **R** projects and Shiny web applications.

The type argument can be either projects or apps and essentially bifurcates the behavior of genPanelDiv. The purpose of the function is to generate an html file defining a container div element to display and reference either my **R** projects or my Shiny apps.

For projects, the function scans a directory of local repositories and takes any directories found to be the names of projects. There is an exclude argument for dropping any known directories that are to be avoided. My defaults are exclude="leonawicz.github.io", "shiny-apps" since the first is just a local repository for my Github user account web site and not a "project" in the same sense of my other projects and the second is the local repository which is scanned by genPanelDiv when type="apps".

For apps, the function scans a directory of Shiny app subdirectories. Unlike for projects, where genPanelDiv scans a directory of multiple local repositories, this apps directory should be a specific local repository. The apps contained within are not inndividual repositories. I have taken this approach for now simply because this is how my apps tend to be stored.

Specifically, the genAppDiv looks for a named directory of image files. There should be one image per app, named exactly as the respective app directory is named. Only apps with corresponding images are built into the html container. If you wish to leave out, say, a developmental app from being linked to on you Github user website, do not include an image file for that app.

The container element includes an image link to each app's url as well as a link to the source code on Github. Although the app scans for images in a local repository, the images referenced in the output html are of course not local. They point to the same images stored on Github, hence why it is useful for the local directory of apps to be a Github repository.

This function makes the more specific genAppDiv redundant and will likely replace it.

```
genPanelDiv <- function(outDir, type = "projects", main = "Projects", github.user = "leonawicz",
    prjs.dir = "C:/github", exclude = c("leonawicz.github.io", "shiny-apps"),
    img.loc = "_images/cropped", ...) {
        stopifnot(github.user %in% c("leonawicz", "ua-snap"))
        if (type == "apps") {
            filename <- "apps_container.html"
            web.url <- "http://shiny.snap.uaf.edu"
            gh.url.tail <- "shiny-apps/tree/master"
            target <- " target=\"_blank\""
            go.label <- "Launch"
            prjs.dir <- file.path(prjs.dir, "shiny-apps")</pre>
```

```
prjs.img <- list.files(file.path(prjs.dir, img.loc))</pre>
                   prjs <- sapply(strsplit(prjs.img, "\\."), "[[", 1)</pre>
                   filename <- "projects_container.html"</pre>
                   web.url <- paste0("http://", github.user, ".github.io")</pre>
                   prjs <- list.dirs(prjs.dir, full = TRUE, recursive = FALSE)</pre>
                   prjs <- prjs[!(basename(prjs) %in% exclude)]</pre>
                   prjs.img <- sapply(1:length(prjs), function(i, a) list.files(file.path(a[i],</pre>
                                        "plots"), pattern = paste0("^_", basename(a)[i])), a = prjs)
                   prjs <- basename(prjs)</pre>
 x \leftarrow paste0("<\!div class=\"container\">\ n \ <\!div class=\"row\">\ n \ <\!div class=\"col-lg-12\">\ n \ <\!div class=\ col-lg-12\">\ n \ <\!div class=\ col-lg-12\ col
                   type, "\">", main, "</h3>\n
                   prj <- prjs[i]</pre>
                   if (type == "apps")
                                      img.src <- file.path(gsub("/tree/", "/raw/", gh.url), img.loc, prjs.img[i])</pre>
                   if (type == "projects")
                                      img.src <- file.path(gh.url, prj, "raw/master/plots", prjs.img[i])</pre>
                   web.url <- file.path(web.url, prj)</pre>
                   if (is.null(dots$col))
                   if (is.null(dots$panel.main))
                                     panel.main <- gsub("_", " ", prj) else panel.main <- dots$panel.main</pre>
                   if (length(panel.main) > 1)
                                     panel.main <- panel.main[i]</pre>
                    x \leftarrow paste0("<div class=\"col-lg-4\">\n\t\t} < div class=\"bs-component\">\n\t\t\t< div class=\"partial partial part
                                      panel.main, "</h3>/n/t/t/t </div>/n/t/t/t <div class=\\"panel-body/"><a href=\\"", a href=
                                     web.url, "\"", target, "><img src=\"", img.src, "\" alt=\"", prj,
                                      "\" width=100% height=200px></a>\n\t\t\t\t\div class=\"btn-group btn-grcup-justified\
                                      web.url, "\"", target, " class=\"btn btn-success\">", go.label,
                                      n <- length(prjs)</pre>
seq1 \leftarrow seq(1, n, by = 3)
                   ind <- seq1[j]:(seq1[j] + 2)</pre>
                  y <- c(y, paste0("<div class=\"row\">\n", paste0(sapply(ind, fillRow,
```

```
sapply(c(x, y, z), cat)
sink()
cat("div container html file created.\n")
}
```

0.0.3 htmlHead

htmlHead.

```
stylesheet.paths, stylesheet.args = vector("list", length(path.stylesheets)),
x <- paste0("<!DOCTYPE html>\n\n<html xmlns=\"http://www.w3.org/1999/xhtml\">\n\n<head>\n\n<meta cha
if (is.character(script.paths))
    x <- c(x, paste0(paste0("<script src=\"", script.paths, "\"></script>",
x <- c(x, "<meta name=\"viewport\" content=\"width=device-width, initial-scale=1.0\" />\n")
if (is.character(stylesheet.paths)) {
    stopifnot(is.list(stylesheet.args))
    stopifnot(length(stylesheet.args) == n)
        string <- ""
        if (is.list(stylesheet.args[i])) {
            v <- stylesheet.args[i]</pre>
            arg <- names(v)
            if (is.character(arg) && all(arg != ""))
              string <- paste0(" ", paste(arg, paste0("\"", v, "\""), sep = "=",
        x <- c(x, paste0("<link rel=\"stylesheet\" href=\"", stylesheet.paths[i],
            "\"", string, ">\n"))
```

0.0.4 htmlBodyTop

htmlBodyTop .

```
htmlBodyTop <- function(css.file = NULL, css.string = NULL, background.image = "",
    include.default = TRUE, ...) {
    x <- "<style type = \"text/css\">\n"
```

```
default <- paste0("\n\t.main-container {\n\t max-width: 940px;\n\t margin-left: auto;\n\t margin-background.image, "\");\n\t background-attachment: fixed;\n\t background-size: 1920px 1080px;\

if (!is.null(css.file))
    y <- readLines(css.file) else y <- ""

if (!is.null(css.string))
    y <- c(y, css.string)

if (include.default)
    y <- c(default, y)

z <- "\n</style>\n\t<div class=\"container-fluid main-container\">\n\t"

c(x, y, z)
}
```

0.0.5 htmlBottom

htmlBottom .

```
}
```

0.0.6 genUserPage

genUserPage .