R Decompose File Paths to Get Folder and Files Names

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Contents

1 File Path

Go to the **RMD**, **R**, **PDF**, or **HTML** version of this file. Go back to fan's REconTools Package, R Code Examples Repository (bookdown site), or Intro Stats with R Repository (bookdown site).

1.1 Compose a Path

File Path might contain information related to the file, decompose the file path, keep the final N folder names, to be possibled stored as a variable in the datafile stored inside.

```r
# Compose together a path
print(paste0('.Platform$file.sep=', .Platform$file.sep))
```

```
## [1] ".Platform$file.sep=/"
```

```r
spn_file_path = file.path("C:", "Users", "fan", "R4Econ", "amto", "tibble",
                          "fs_tib_basics.Rmd",
                          fsep = .Platform$file.sep)
# print
print(spn_file_path)
```

```
## [1] "C:/Users/fan/R4Econ/amto/tibble/fs_tib_basics.Rmd"
```

1.2 Substring and File Name

From path, get file name without suffix.

- r string split
- r list last element
- r get file name from path
- r get file path no name

```r
st_example <- 'C:/Users/fan/R4Econ/amto/tibble/fs_tib_basics.Rmd'
st_file_wth_suffix_s <- tail(strsplit(st_example, "/")[[1]],n=1)
st_file_wno_suffix_s <- tools::file_path_sans_ext(basename(st_example))
st_fullpath_nosufx_s <- sub('\\.Rmd$', '', st_example)
st_fullpath_noname_s <- dirname(st_example)
```

```r
print(paste0('st_file_wth_suffix_s:', st_file_wth_suffix_s))
```

```
## [1] "st_file_wth_suffix_s:fs_tib_basics.Rmd"
```

```r
print(paste0('st_file_wno_suffix_s:', st_file_wno_suffix_s))
```

```
## [1] "st_file_wno_suffix_s:fs_tib_basics"
```

```r
print(paste0('st_fullpath_nosufx_s:', st_fullpath_nosufx_s))
```

```
## [1] "st_fullpath_nosufx_s:C:/Users/fan/R4Econ/amto/tibble/fs_tib_basics"
```

```r
print(paste0('st_fullpath_noname_s:', st_fullpath_noname_s))
```

```
## [1] "st_fullpath_noname_s:C:/Users/fan/R4Econ/amto/tibble"
```

1.3 Get Subset of Path Folder Names

File Path might contain information related to the file, decompose the file path, keep the final N folder names, to be possibled stored as a variable in the datafile stored inside.

```r
# Compose together a path
spn_example <- 'C:/Users/fan/R4Econ/amto/tibble/fs_tib_basics.Rmd'
# Replace default system slash, assume spn was generated by system.
ls_srt_folders_file <- strsplit(st_example, .Platform$file.sep)[[1]]
# Keep the last N layers
it_folders_names_to_keep = 2
snm_file_name <- tail(strsplit(st_example, "/")[[1]],n=1)
ls_srt_folders_keep <- head(tail(ls_srt_folders_file, it_folders_names_to_keep+1),
                            it_folders_names_to_keep)
# Show folder names
print(paste0('snm_file_name:', snm_file_name))
```

```
## [1] "snm_file_name:fs_tib_basics.Rmd"
```

```r
print(paste0('last ', it_folders_names_to_keep, ' folders:'))
```

```
## [1] "last 2 folders:"
```

```r
print(ls_srt_folders_keep)
```

```
## [1] "amto"   "tibble"
```

Shorter lines, to make copying easier.

```r
# inputs
it_folders_names_to_keep = 2
spn_example <- 'C:/Users/fan/R4Econ/amto/tibble/fs_tib_basics.Rmd'
# copy these
ls_srt_folders_name_keep <- tail(strsplit(st_example, "/")[[1]], n=it_folders_names_to_keep+1)
snm_file_name <- tail(ls_srt_folders_name_keep, 1)
ls_srt_folders_keep <- head(ls_srt_folders_name_keep, it_folders_names_to_keep)
# print
print(paste0('snm_file_name:', snm_file_name))
```

```
## [1] "snm_file_name:fs_tib_basics.Rmd"
```

```r
print(paste0('last ', it_folders_names_to_keep, ' folders:'))
```

```
## [1] "last 2 folders:"
```

```
print(ls_srt_folders_keep)
```

```
## [1] "amto"    "tibble"
```