CopyOf00\_filesystem-practice\_jenny.R

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## First attempt: Just get it to work ----  
  
list.files("C:/Users/ljarosek/Desktop/day1\_s1\_explore-libraries")

## [1] "01\_explore-libraries\_comfy.R" "01\_explore-libraries\_jenny.R"   
## [3] "01\_explore-libraries\_spartan.R" "day1\_s1\_explore-libraries.Rproj"

list.files("C:/Users/ljarosek/Desktop/day1\_s1\_explore-libraries", pattern = "\\.R$")

## [1] "01\_explore-libraries\_comfy.R" "01\_explore-libraries\_jenny.R"   
## [3] "01\_explore-libraries\_spartan.R"

list.files(  
 "C:/Users/ljarosek/Desktop/day1\_s1\_explore-libraries",  
 pattern = "\\.R$",  
 full.names = TRUE  
)

## [1] "C:/Users/ljarosek/Desktop/day1\_s1\_explore-libraries/01\_explore-libraries\_comfy.R"   
## [2] "C:/Users/ljarosek/Desktop/day1\_s1\_explore-libraries/01\_explore-libraries\_jenny.R"   
## [3] "C:/Users/ljarosek/Desktop/day1\_s1\_explore-libraries/01\_explore-libraries\_spartan.R"

from\_files <- list.files(  
 "C:/Users/ljarosek/Desktop/day1\_s1\_explore-libraries",  
 pattern = "\\.R$",  
 full.names = TRUE  
)  
  
(to\_files <- basename(from\_files))

## [1] "01\_explore-libraries\_comfy.R" "01\_explore-libraries\_jenny.R"   
## [3] "01\_explore-libraries\_spartan.R"

file.copy(from\_files, to\_files)

## [1] TRUE TRUE TRUE

list.files()

## [1] "01\_explore-libraries\_comfy.R"   
## [2] "01\_explore-libraries\_jenny.R"   
## [3] "01\_explore-libraries\_spartan.R"   
## [4] "CopyOf00\_filesystem-practice\_jenny.md"   
## [5] "CopyOf00\_filesystem-practice\_jenny.R"   
## [6] "CopyOf00\_filesystem-practice\_jenny.spin.R"   
## [7] "CopyOf00\_filesystem-practice\_jenny.spin.Rmd"  
## [8] "explore-libraries.Rproj"   
## [9] "README.md"

## Clean it out, so we can refine ----  
file.remove(to\_files)

## [1] TRUE TRUE TRUE

list.files()

## [1] "CopyOf00\_filesystem-practice\_jenny.md"   
## [2] "CopyOf00\_filesystem-practice\_jenny.R"   
## [3] "CopyOf00\_filesystem-practice\_jenny.spin.R"   
## [4] "CopyOf00\_filesystem-practice\_jenny.spin.Rmd"  
## [5] "explore-libraries.Rproj"   
## [6] "README.md"

## Copy again, tighter code ----  
from\_dir <- file.path("C:/Users/ljarosek", "Desktop", "day1\_s1\_explore-libraries")  
from\_files <- list.files(from\_dir, pattern = "\\.R$", full.names = TRUE)  
to\_files <- basename(from\_files)  
file.copy(from\_files, to\_files)

## [1] TRUE TRUE TRUE

list.files()

## [1] "01\_explore-libraries\_comfy.R"   
## [2] "01\_explore-libraries\_jenny.R"   
## [3] "01\_explore-libraries\_spartan.R"   
## [4] "CopyOf00\_filesystem-practice\_jenny.md"   
## [5] "CopyOf00\_filesystem-practice\_jenny.R"   
## [6] "CopyOf00\_filesystem-practice\_jenny.spin.R"   
## [7] "CopyOf00\_filesystem-practice\_jenny.spin.Rmd"  
## [8] "explore-libraries.Rproj"   
## [9] "README.md"

## Clean it out, so we can use fs ----  
file.remove(to\_files)

## [1] TRUE TRUE TRUE

list.files()

## [1] "CopyOf00\_filesystem-practice\_jenny.md"   
## [2] "CopyOf00\_filesystem-practice\_jenny.R"   
## [3] "CopyOf00\_filesystem-practice\_jenny.spin.R"   
## [4] "CopyOf00\_filesystem-practice\_jenny.spin.Rmd"  
## [5] "explore-libraries.Rproj"   
## [6] "README.md"

## Copy again, using fs ----  
library(fs)

## Warning: package 'fs' was built under R version 3.3.3

#(from\_dir <- path\_home("Desktop", "day1\_s1\_explore-libraries"))  
(from\_dir <- fs::path\_real('../day1\_s1\_explore-libraries'))

## C:/Users/ljarosek/Desktop/day1\_s1\_explore-libraries

(from\_files <- dir\_ls(from\_dir, glob = "\*.R"))

## C:/Users/ljarosek/Desktop/day1\_s1\_explore-libraries/01\_explore-libraries\_comfy.R  
## C:/Users/ljarosek/Desktop/day1\_s1\_explore-libraries/01\_explore-libraries\_jenny.R  
## C:/Users/ljarosek/Desktop/day1\_s1\_explore-libraries/01\_explore-libraries\_spartan.R

(to\_files <- path\_file(from\_files))

## 01\_explore-libraries\_comfy.R 01\_explore-libraries\_jenny.R   
## 01\_explore-libraries\_spartan.R

(out <- file\_copy(from\_files, to\_files))

## 01\_explore-libraries\_comfy.R 01\_explore-libraries\_jenny.R   
## 01\_explore-libraries\_spartan.R

dir\_ls()

## 01\_explore-libraries\_comfy.R  
## 01\_explore-libraries\_jenny.R  
## 01\_explore-libraries\_spartan.R  
## CopyOf00\_filesystem-practice\_jenny.md  
## CopyOf00\_filesystem-practice\_jenny.R  
## CopyOf00\_filesystem-practice\_jenny.spin.R  
## CopyOf00\_filesystem-practice\_jenny.spin.Rmd  
## explore-libraries.Rproj  
## README.md

dir\_info()

## path type size permissions  
## 1 01\_explore-libraries\_comfy.R file 1.12K rw-   
## 2 01\_explore-libraries\_jenny.R file 1.54K rw-   
## 3 01\_explore-libraries\_spartan.R file 850 rw-   
## 4 CopyOf00\_filesystem-practice\_jenny.md file 11.48K rw-   
## 5 CopyOf00\_filesystem-practice\_jenny.R file 2K rw-   
## 6 CopyOf00\_filesystem-practice\_jenny.spin.R file 2K rw-   
## 7 CopyOf00\_filesystem-practice\_jenny.spin.Rmd file 2.11K rw-   
## 8 explore-libraries.Rproj file 218 rw-   
## 9 README.md file 138 rw-   
## modification\_time user group device\_id hard\_links special\_device\_id  
## 1 2018-01-31 09:57:02 <NA> <NA> 1177936306 1 0  
## 2 2018-01-31 09:57:02 <NA> <NA> 1177936306 1 0  
## 3 2018-01-31 09:57:02 <NA> <NA> 1177936306 1 0  
## 4 2018-01-31 14:05:38 <NA> <NA> 1177936306 1 0  
## 5 2018-01-31 14:32:47 <NA> <NA> 1177936306 1 0  
## 6 2018-01-31 14:32:49 <NA> <NA> 1177936306 1 0  
## 7 2018-01-31 14:32:49 <NA> <NA> 1177936306 1 0  
## 8 2018-01-31 13:32:20 <NA> <NA> 1177936306 1 0  
## 9 2018-01-31 13:46:09 <NA> <NA> 1177936306 1 0  
## inode block\_size blocks flags generation access\_time  
## 1 1.125900e+15 4096 8 0 0 2018-01-31 14:32:49  
## 2 1.125900e+15 4096 8 0 0 2018-01-31 14:32:49  
## 3 1.125900e+15 4096 8 0 0 2018-01-31 14:32:49  
## 4 1.970325e+15 4096 24 0 0 2018-01-31 14:05:38  
## 5 6.473924e+15 4096 8 0 0 2018-01-31 13:50:58  
## 6 5.629500e+14 4096 8 0 0 2018-01-31 14:32:49  
## 7 5.629500e+14 4096 8 0 0 2018-01-31 14:32:49  
## 8 5.629500e+14 4096 0 0 0 2018-01-31 13:32:20  
## 9 8.444249e+14 4096 0 0 0 2018-01-31 13:46:09  
## change\_time birth\_time  
## 1 2018-01-31 09:59:00 2018-01-31 14:32:49  
## 2 2018-01-31 10:02:41 2018-01-31 14:32:49  
## 3 2018-01-31 09:57:02 2018-01-31 14:32:49  
## 4 2018-01-31 14:05:38 2018-01-31 14:05:38  
## 5 2018-01-31 14:32:47 2018-01-31 13:50:58  
## 6 2018-01-31 14:32:49 2018-01-31 14:32:49  
## 7 2018-01-31 14:32:49 2018-01-31 14:32:49  
## 8 2018-01-31 13:32:20 2018-01-31 13:32:20  
## 9 2018-01-31 13:46:09 2018-01-31 13:32:20

## Sidebar: Why does Jenny name files this way? ----  
library(tidyverse)

## Warning: package 'tidyverse' was built under R version 3.3.3

## -- Attaching packages ---------------------------------- tidyverse 1.2.1 --

## v ggplot2 2.2.1 v purrr 0.2.4  
## v tibble 1.4.2 v dplyr 0.7.4  
## v tidyr 0.8.0 v stringr 1.2.0  
## v readr 1.1.1 v forcats 0.2.0

## Warning: package 'ggplot2' was built under R version 3.3.3

## Warning: package 'tibble' was built under R version 3.3.3

## Warning: package 'tidyr' was built under R version 3.3.3

## Warning: package 'readr' was built under R version 3.3.3

## Warning: package 'purrr' was built under R version 3.3.3

## Warning: package 'dplyr' was built under R version 3.3.3

## Warning: package 'stringr' was built under R version 3.3.3

## Warning: package 'forcats' was built under R version 3.3.3

## -- Conflicts ------------------------------------- tidyverse\_conflicts() --  
## x dplyr::filter() masks stats::filter()  
## x dplyr::lag() masks stats::lag()

ft <- tibble(files = dir\_ls(glob = "\*.R"))  
ft

## # A tibble: 5 x 1  
## files   
## <fs::path>   
## 1 01\_explore-libraries\_comfy.R   
## 2 01\_explore-libraries\_jenny.R   
## 3 01\_explore-libraries\_spartan.R   
## 4 CopyOf00\_filesystem-practice\_jenny.R   
## 5 CopyOf00\_filesystem-practice\_jenny.spin.R

ft %>%  
 filter(str\_detect(files, "explore"))

## Warning: package 'bindrcpp' was built under R version 3.3.3

## # A tibble: 3 x 1  
## files   
## <fs::path>   
## 1 01\_explore-libraries\_comfy.R   
## 2 01\_explore-libraries\_jenny.R   
## 3 01\_explore-libraries\_spartan.R

ft %>%  
 mutate(files = path\_ext\_remove(files)) %>%  
 separate(files, into = c("i", "topic", "flavor"), sep = "\_")

## # A tibble: 5 x 3  
## i topic flavor   
## <chr> <chr> <chr>   
## 1 01 explore-libraries comfy   
## 2 01 explore-libraries jenny   
## 3 01 explore-libraries spartan   
## 4 CopyOf00 filesystem-practice jenny   
## 5 CopyOf00 filesystem-practice jenny.spin

#dirs <- dir\_ls(path\_home("Desktop"), type = "directory")  
dirs <- dir\_ls(fs::path\_real('../day1\_s1\_explore-libraries'))  
  
(dt <- tibble(dirs = path\_file(dirs)))

## # A tibble: 4 x 1  
## dirs   
## <fs::path>   
## 1 01\_explore-libraries\_comfy.R   
## 2 01\_explore-libraries\_jenny.R   
## 3 01\_explore-libraries\_spartan.R   
## 4 day1\_s1\_explore-libraries.Rproj

dt %>%  
 separate(dirs, into = c("day", "session", "topic"), sep = "\_")

## # A tibble: 4 x 3  
## day session topic   
## <chr> <chr> <chr>   
## 1 01 explore-libraries comfy.R   
## 2 01 explore-libraries jenny.R   
## 3 01 explore-libraries spartan.R   
## 4 day1 s1 explore-libraries.Rproj

## Principled use of delimiters --> meta-data can be recovered from filename  
  
## Clean it out, so we reset for workshop ----  
file\_delete(to\_files)  
dir\_ls()

## CopyOf00\_filesystem-practice\_jenny.md  
## CopyOf00\_filesystem-practice\_jenny.R  
## CopyOf00\_filesystem-practice\_jenny.spin.R  
## CopyOf00\_filesystem-practice\_jenny.spin.Rmd  
## explore-libraries.Rproj  
## README.md