

# Package ‘PkgsFromFiles’

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**Title** Finding and Installing Packages Used in R and RMarkdown Files

**Version** 0.5

**Date** 2018-10-19

**Description** Includes functions for finding and installing used R packages from local scripts and Rmarkdown files.

**Depends** R (>= 3.5.0)

**Imports** stringr,XML, dplyr, readr, stringdist, curl

**License** GPL-2

**BugReports** <https://github.com/msperlin/PkgsFromFiles/issues>

**URL** <https://github.com/msperlin/PkgsFromFiles/>

**LazyData** true

**RoxygenNote** 6.1.0

**Suggests** knitr, rmarkdown, testthat, ggplot2

**VignetteBuilder** knitr

**NeedsCompilation** no

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**Repository** CRAN

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## R topics documented:

pff_check_install_pkgs . . . . .	2
pff_find_and_install_pkgs . . . . .	2
pff_find_packages_from_folder . . . . .	3
pff_find_pkgs_from_file . . . . .	4
pff_find_R_files_from_folder . . . . .	4
pff_plot_summary_pkgs . . . . .	5
<b>Index</b>	<b>6</b>

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pff\_check\_install\_pkgs

*Checks and installs a single package*

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### Description

This function will check if input package in pkg.in is installed and, if not, installs it from a chosen repository

### Usage

```
pff_check_install_pkgs(pkg.in, my.available.packages,
  my.library.path = .libPaths()[1],
  my.repository = "https://cloud.r-project.org")
```

### Arguments

pkg.in	Name of the package to be installed
my.available.packages	Names of locally available (installed) packages
my.library.path	Library to search for installed packages (default = .libPaths()[1])
my.repository	Url of CRAN repository (default = "https://cloud.r-project.org" )

### Value

A dataframe with information about the result of the installation

### Examples

```
pff_check_install_pkgs('dplyr')
```

---

pff\_find\_and\_install\_pkgs

*Finds and installs packages used in R related files*

---

### Description

This function will search for all R related files in input folder.in and find loaded packages with the library() and require() functions.

### Usage

```
pff_find_and_install_pkgs(folder.in, do.recursive = TRUE,
  my.library.path = .libPaths()[1],
  my.repository = "https://cloud.r-project.org")
```

**Arguments**

folder.in      Folder to search for R related files  
do.recursive   Find files in all subdirectories? (default = TRUE)  
my.library.path      Library to search for installed packages (default = .libPaths()[1])  
my.repository   Url of CRAN repository (default = "https://cloud.r-project.org" )

**Value**

Messages in prompt and dataframe with the results

**Examples**

```
## Not run:  
my.dir <- dirname(system.file('extdata/Example_Script_1.R', package = 'PkgsFromFiles'))  
df.out <- pff_find_and_install_pkgs(folder.in = my.dir)  
print(df.out)  
  
## End(Not run)
```

---

pff\_find\_packages\_from\_folder

*Checks for installed packages based on local library folder*

---

**Description**

Checks for installed packages based on local library folder

**Usage**

```
pff_find_packages_from_folder(lib.path = .libPaths()[1])
```

**Arguments**

lib.path      Path of libraries files

**Value**

Char vector of installed packages

**Examples**

```
my.pkgs <- pff_find_packages_from_folder()
```

pff\_find\_pkgs\_from\_file

*Finds used packages from a single file*

---

### Description

This function will search the names of R packages used in the script

### Usage

```
pff_find_pkgs_from_file(f.in)
```

### Arguments

f.in                    File to search for pattern

### Value

A character object with all packages, separated by ' ; '

### Examples

```
## Not run:  
my.f <- system.file('extdata/Example_Script_1.R', package = 'PkgsFromFiles')  
pkg.out <- pff_find_pkgs_from_file(my.f)  
  
## End(Not run)
```

---

pff\_find\_R\_files\_from\_folder

*Finds all R related files from a folder*

---

### Description

Finds all R related files from a folder

### Usage

```
pff_find_R_files_from_folder(folder.in, do.recursive = TRUE)
```

### Arguments

folder.in              Folder to search for R related files  
do.recursive          Find files in all subdirectories? (default = TRUE)

**Value**

A dataframe with several information about files and packages

**Examples**

```
my.dir <- dirname(system.file('extdata/Example_Script_1.R', package = 'PkgsFromFiles'))
df.files <- pff_find_R_files_from_folder(my.dir)
print(df.files)
```

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pff\_plot\_summary\_pkgs *Plots a summary of used packages found in files from a given folder*

---

**Description**

Plots a summary of used packages found in files from a given folder

**Usage**

```
pff_plot_summary_pkgs(folder.in, n.most.used.pkgs = 10,
  do.recursive = TRUE)
```

**Arguments**

folder.in	Folder to search for R related files
n.most.used.pkgs	Number of most used packages to show in plot (default = 10)
do.recursive	Find files in all subdirectories? (default = TRUE)

**Value**

A ggplot2 object that can be printed with print()

**Examples**

```
my.dir <- dirname(system.file('extdata', package = 'PkgsFromFiles'))
p <- pff_plot_summary_pkgs(my.dir)
print(p)
```

# Index

[pff\\_check\\_install\\_pkgs](#), 2  
[pff\\_find\\_and\\_install\\_pkgs](#), 2  
[pff\\_find\\_packages\\_from\\_folder](#), 3  
[pff\\_find\\_pkgs\\_from\\_file](#), 4  
[pff\\_find\\_R\\_files\\_from\\_folder](#), 4  
[pff\\_plot\\_summary\\_pkgs](#), 5