

# Package ‘comFuncs’

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**Type** Package

**Title** Commonly Used Functions for R Shiny Applications

**Version** 0.0.6

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**Description** A set of common functions to be used for displaying messages, checking variables, finding absolute paths, starting applications, etc. More functions will be added later.

**Depends** R (>= 3.5.0)

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**URL** <https://github.com/TuCai/comFuncs>

**BugReports** <https://github.com/TuCai/comFuncs/issues>

**Encoding** UTF-8

**RoxygenNote** 7.2.1

**Imports** shiny (>= 1.3.2), stats (>= 4.0.3)

**Suggests** testthat (>= 2.1.0),

**NeedsCompilation** no

**Repository** CRAN

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cvt\_class2df                      *Convert a class to data fram*

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### **Description**

Convert class or list to a data frame

### **Usage**

```
cvt_class2df(x, exc = "^_+", condition = FALSE)
```

### **Arguments**

x	a class or list
exc	exclude pattern
condition	condition for excluding

### **Author(s)**

Hanming Tu

### **Examples**

```
r1 <- Sys.getenv()
r2 <- cvt_class2df(r1)
```

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echo\_msg                              *Echo message*

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### **Description**

This method displays or writes the message based on debug level. The filehandler is provided through environment variable 'log\_fn', and the outputs are written to the file. This method will display message or a hash array based on debug level ('d\_level'). If 'd\_level' is set to '0', no message or array will be displayed. If 'd\_level' is set to '2', it will only display the message level (lvl) is less than or equal to '2'. If you call this method without providing a message level, the message level (lvl) is default to '0'. Of course, if no message is provided to the method, it will be quietly returned. If 'd\_level' is set to '1', all the messages with default message level, i.e., 0, and '1' will be displayed. The higher level messages will not be displayed.

### **Usage**

```
echo_msg(prg, step, msg, lvl = 0, fn = NULL)
```

**Arguments**

prg	program name calling from
step	step in the program
msg	the message to be displayed. No newline is needed in the end of the message. It will add the newline code at the end of the message.
lvl	the message level is assigned to the message. If it is higher than the debug level, then the message will not be displayed.
fn	log file name

**Value**

message

**Author(s)**

Hanming Tu

**Examples**

```
echo_msg('comFunc', 1, 'This is a test');
```

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get_abs_path	<i>Get absolute path</i>
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**Description**

Get absolute directory

**Usage**

```
get_abs_path(dir, relpath)
```

**Arguments**

dir	directory
relpath	relative path

**Author(s)**

Hanming Tu

**Examples**

```
get_abs_path("/Users/htu/myRepo", "scripts")  
# get "/Users/htu/myRepo/scripts"
```

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is_empty	<i>Check if a variable is na or null or space</i>
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**Description**

check if string or list is empty (na, null or blank spaces).

**Usage**

```
is_empty(x)
```

**Arguments**

x                    a list or string

**Value**

true or false

**Author(s)**

Hanming Tu

**Examples**

```
is_empty(NULL);  
is_empty('');  
is_empty(NA);
```

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start_app	<i>Start R Shiny app</i>
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**Description**

start R Shiny apps included in this package.

**Usage**

```
start_app(  
  app_name = "showenv",  
  n = 1,  
  pkg = "comFuncs",  
  pt = NULL,  
  lb = getOption("shiny.launch.browser", interactive()),  
  ht = getOption("shiny.host", "127.0.0.1"),  
  dm = "normal",
```

```
    msg_lvl = NULL,  
    loc = "local"  
  )
```

**Arguments**

app_name	app or script name
n	app number
pkg	package name
pt	Port number
lb	define the browser- shiny.launch.browser
ht	define the host or ip address
dm	display modes are auto, normal or showcase
msg_lvl	message level
loc	location of the script: local github; default to 'local'

**Author(s)**

Hanming Tu

**Examples**

```
# this function start an interactive page so we could not add an runnable  
# example  
  NULL;
```

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