



How to purrr safely()

Auriel Fournier Instructor



safely()

```
a <- list("unknown", 10) %>%
  map(safely(function(x)
 x * 10,
  otherwise = NA real ))
[[1]]
[[1]]$result
[1] NA
[[1]]$error
<simpleError in x * 10: non-numeric</pre>
argument to binary operator>
[[2]]
[[2]]$result
[1] 100
[[2]]$error
NULL
```



Reordering

```
a <- list("unknown",10) %>%
map(safely(function(x)
             x * 10,
        otherwise = NA real )) %>%
 transpose()
$result
$result[[1]]
[1] NA
$result[[2]]
[1] 100
$error
$error[[1]]
<simpleError in x * 10:
non-numeric argument to
binary operator>
$error[[2]]
NULL
```





Let's purrr-actice!





Another way to possibly() purrr

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safely() then possibly()

```
a <- list(-10, "unknown", 10) %>%
  map(safely(function(x)
  x * 10,
  otherwise = NA_real_))
```

```
[[1]]
[[1]]$result
[1] -100
[[1]]$error
NULL
[[2]]
[[2]]$result
[1] NA
[[2]]$error
<simpleError in x * 10: non-numeric</pre>
argument to binary operator>
[[3]]
[[3]]$result
[1] 100
[[3]]$error
NULL
```

possibly()

```
[[1]]
[1] -100
[[2]]
[1] NA
[[3]]
[1] 100
```





Let's purrr-actice!





purrr is a walk() in the park

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Why walk()?

```
short_list <- list(-10, 1, 10)
short_list</pre>
```

```
[[1]]
[1] -10
[[2]]
[1] 1
[[3]]
[1] 10
```

```
walk(short_list, print)
```

```
[1] -10
[1] 1
[1] 10
```

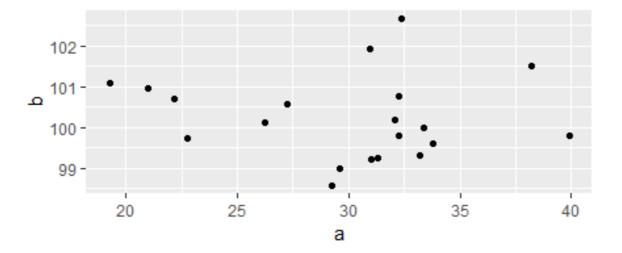


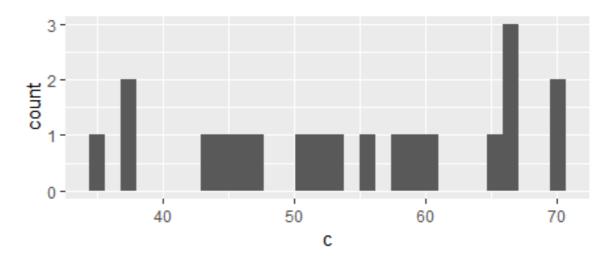
Plots, the normal way

plist

[[1]]

[[2]]

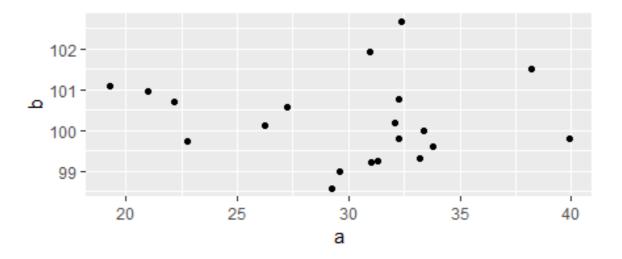


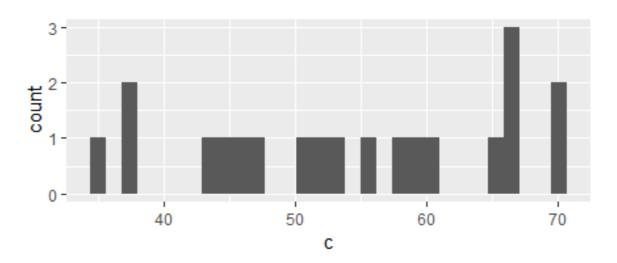




walk() with plots

walk(plist, print)









Let's purrr-actice!