

Dependent assignment

R example

Tidyverse allows us to use newly created/modified variables within a single `mutate` assignment. Note for the example below, `area` is dependent on the new `length` and `width` variables.

```
# measure in mm instead of cm and compute area
df %>%
  mutate(
    length = length * 10,
    width = width * 10,
    area = length * width) %>%
  head(5)
```

```
##   length width area
## 1     51    35 1785
## 2     49    30 1470
## 3     47    32 1504
## 4     46    31 1426
## 5     50    36 1800
```

Python example

Dependent assignment in pandas (as of 0.25.x) requires a workaround using anonymous functions.

```
(df
 .assign(
   length = df["length"] * 10,
   width = df["width"] * 10,
   # area = df["length"] * df["width"] this will throw an error
   area = lambda df: df["length"] * df["width"])
 .head(5))
```

```
##   length  width  area
## 0   51.0   35.0 1785.0
## 1   49.0   30.0 1470.0
## 2   47.0   32.0 1504.0
## 3   46.0   31.0 1426.0
## 4   50.0   36.0 1800.0
```