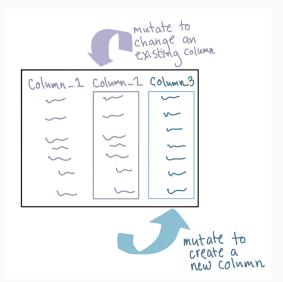
Entering / cleaning data 1

Data cleaning: Adding or

changing columns

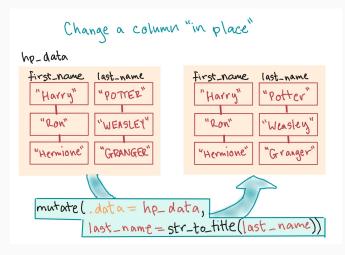
You can **change** a column or **add** a new column using the mutate function from the dplyr package.



The mutate function has the syntax:

- If you want to just change a column (in place), use its original name on the left of the equation.
- If you want to add a new column, use a new column name (you pick what that name will be) on the left of the equation (this will be the name of the new column).

You can use mutate to change an existing column.



For example, the job column in daily_show sometimes uses upper case and sometimes does not:

```
daily_show$job[1:10]
```

```
## [1] "neurosurgeon" "scientist"
## [3] "physician" "doctor"
## [5] "astronaut" "Astrophysicist"
## [7] "Surgeon" "physician"
## [9] "Astrophysicist" "Neuroscientist"
```

There is a package called stringr for working with character strings.

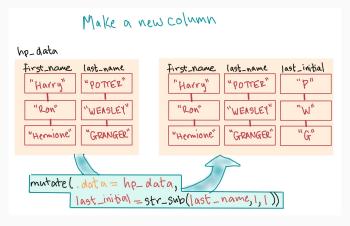
We could use the str_to_lower function from the stringr package to make all listings lowercase:

Now all job listings are in lowercase:

daily_show\$job[1:10]

```
## [1] "neurosurgeon" "scientist"
## [3] "physician" "doctor"
## [5] "astronaut" "astrophysicist"
## [7] "surgeon" "physician"
## [9] "astrophysicist" "neuroscientist"
```

Alternatively, you can also use mutate to *add* a new column to the dataframe.



For example, you could add a column called uc_job with the job name in uppercase letters:

```
daily show <- mutate(.data = daily show,
                   uc_job = str_to_upper(string = job))
slice(select(.data = daily show, job, uc job), 1:3)
## # A tibble: 3 \times 2
## job
          uc_job
##
   <chr> <chr>
## 1 neurosurgeon NEUROSURGEON
## 2 scientist SCIENTIST
## 3 physician PHYSICIAN
```