

Adding a new column to an existing dataframe in R

```
> salmon
  brook.trout.PRES.ABS salmon.released salmon.surv
1          present      820           166
2          present      960           136
3          present      700           153
4          present      545           103
5          present      769           173
6          present     1001           188
7          absent      467           180
8          absent      959           178
9          absent     1029           326
10         absent       27            7
11         absent      998           120
12         absent      936           135
```

1)Original
dataframe

```
percent.surv <-salmon$salmon.surv/salmon$salmon.released
```

2)Calculate new data (here,
percentages percentages) and put
it in an R "object" "percent.surv"

```
salmon$percent.surv <- percent.surv
```

3)Add the new data as a new column to
original dataframe

```
> salmon
  brook.trout.PRES.ABS salmon.released salmon.surv percent.surv
1          present      820           166      0.2024390
2          present      960           136      0.1416667
3          present      700           153      0.2185714
4          present      545           103      0.1889908
5          present      769           173      0.2249675
6          present     1001           188      0.1878122
7          absent      467           180      0.3854390
8          absent      959           178      0.1856100
9          absent     1029           326      0.3168124
10         absent       27            7      0.2592593
11         absent      998           120      0.1202405
12         absent      936           135      0.1442308
```

4)New dataframe
with new columns
"percent.surv"

Adding a new column to an existing dataframe

```
>  
> salmon$percent.surv <- percent.surv  
>
```

Original
dataframe

Dollar sign \$;
relates to
columns w/in a
dataframe

A brand new
column to add
to the existing
dataframe

The
“assignment
operator”

The data that
will go into the
new column

In words, this is “take the dataframe ‘salmon’, make a new column called ‘percent.surv’, then assign the data in the percent.surv object.

Note: the new column must be the same length as the existing dataframe, otherwise there will be problems.