

Fantastic Flower Analysis

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Intro

The purpose of this script is to show how you can make loops in R Markdown, both within the markdown document and in a main script.

```
## Rows: 150 Columns: 3
## -- Column specification -----
## Delimiter: ","
## chr (1): category_species
## dbl (2): xval_Sepal.Length, yval_Sepal.Width
##
## i Use 'spec()' to retrieve the full column specification for this data.
## i Specify the column types or set 'show_col_types = FALSE' to quiet this message.
```

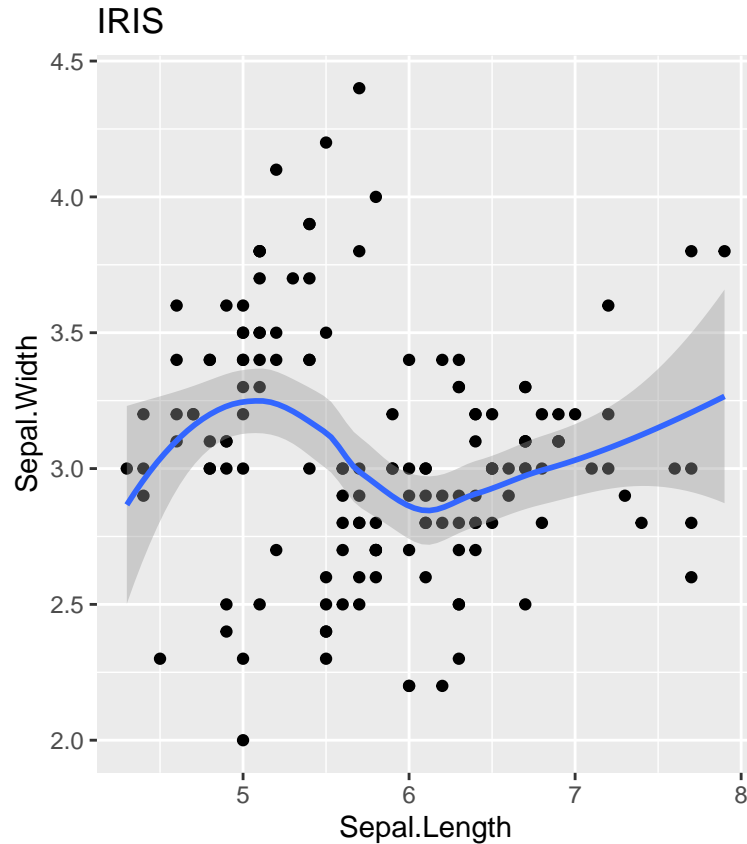
```
## # A tibble: 6 x 3
##   category_species xval_Sepal.Length yval_Sepal.Width
##   <chr>           <dbl>           <dbl>
## 1 setosa           5.1             3.5
## 2 setosa           4.9             3
## 3 setosa           4.7             3.2
## 4 setosa           4.6             3.1
## 5 setosa           5                3.6
## 6 setosa           5.4             3.9
```

```
##   category_species   xval_Sepal.Length yval_Sepal.Width
##   Length:150        Min.    :4.300      Min.    :2.000
##   Class :character  1st Qu.:5.100      1st Qu.:2.800
##   Mode  :character  Median :5.800      Median :3.000
##                               Mean    :5.843      Mean    :3.057
##                               3rd Qu.:6.400      3rd Qu.:3.300
##                               Max.    :7.900      Max.    :4.400
```

High Level Report

You can print a high level report of all your data, which is fine for a first order analysis or users who don't need to be restricted.

```
## 'geom_smooth()' using method = 'loess' and formula 'y ~ x'
```

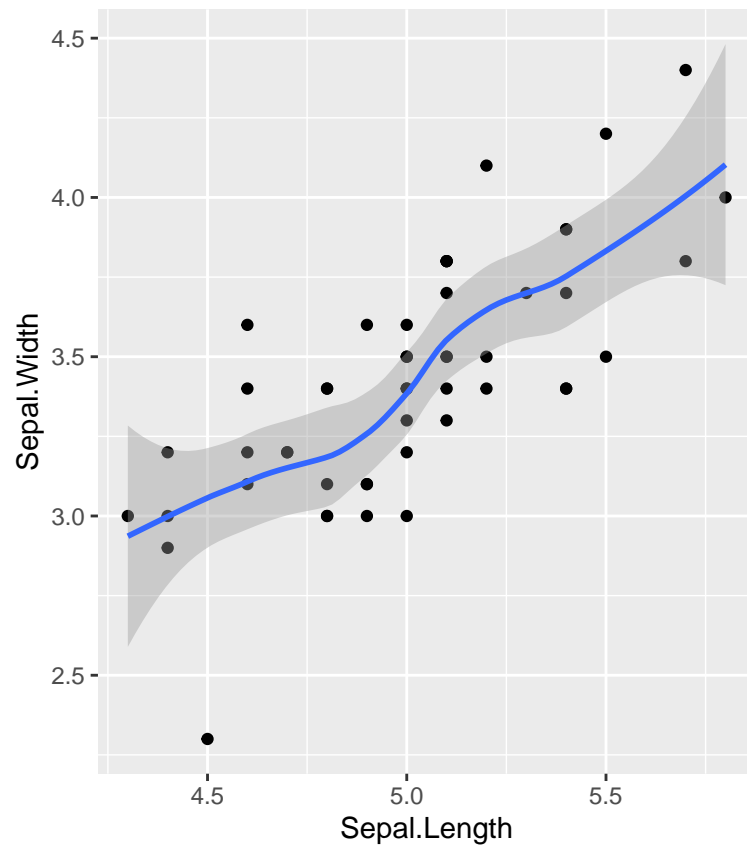


And that's neat, but we might want to create individual pages that are specific to an individual category. To do this, we use the package "gluedown".

"Gluedown" is a small set of thoughtful wrappers around the tidyverse package "glue" that will put them in markdown format for you. By using "gluedown" and the chunk setting "results = 'asis'", instead of printing console code output the output will be nicely formatted markdown text.

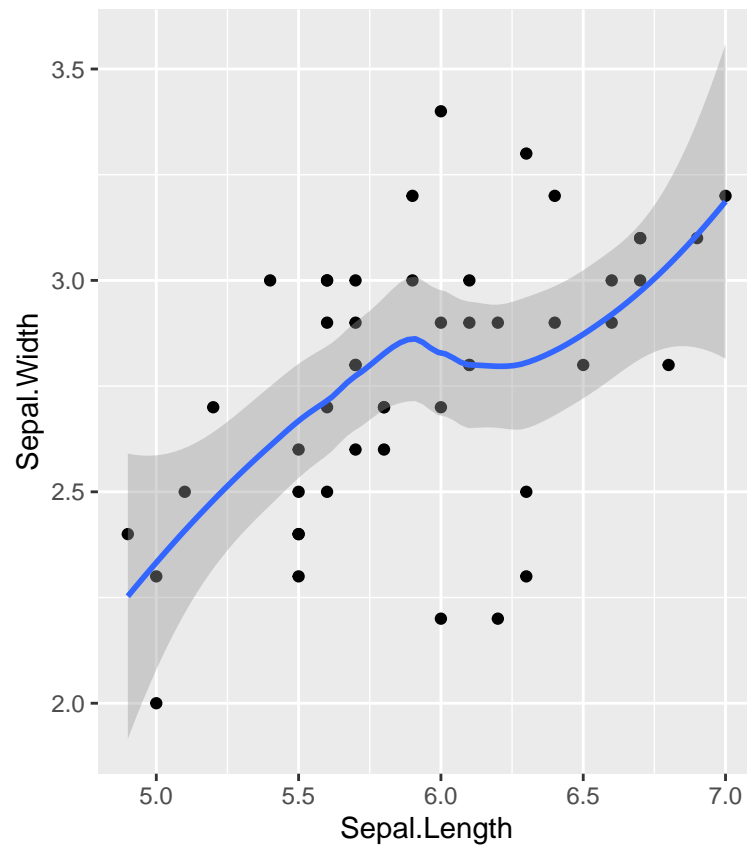
IRIS: categoryspecies = setosa

```
## 'geom_smooth()' using method = 'loess' and formula 'y ~ x'
```



IRIS: categoryspecies = versicolor

```
## 'geom_smooth()' using method = 'loess' and formula 'y ~ x'
```



IRIS: category species = virginica

```
## 'geom_smooth()' using method = 'loess' and formula 'y ~ x'
```

