

# Mango Pagedown Test

Mango The Cat

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# 1 Chapter Name

## 1.1 Headings

Our training sections usually start at level 2.

## 1.2 Fonts

I've managed to change the fonts to Open Sans in `css/mango-fonts.css` that's about it.

### 1.2.1 Body

Open Sans

### 1.2.2 Titles

Might be OK Open Sans. We used to have level 3 as orange which is easy enough

### 1.2.3 Numbering

Currently use `{chapter}.{section}.{sub-section}`.

Nice to have would be a chapter front page saying Chapter {Chapter Number} {Chapter Name}.

### 1.2.4 Code

My guess is that the default code is OK but we might want to fancy it up a bit.

```
# A non-executed R-block
```

```
f <- function(x) {  
  if (is.null(x)) 0 else x  
}
```

where as python code might look like

```
# python code looks like this  
def f(x):  
    """Some big Long docstring"""  
    return(0 if x is null else x)
```

A code block that returns stuff looks like

```
f <- function(x) {  
  if (is.null(x)) 0 else x  
}
```

```
f(NULL)
```

```
## [1] 0
```

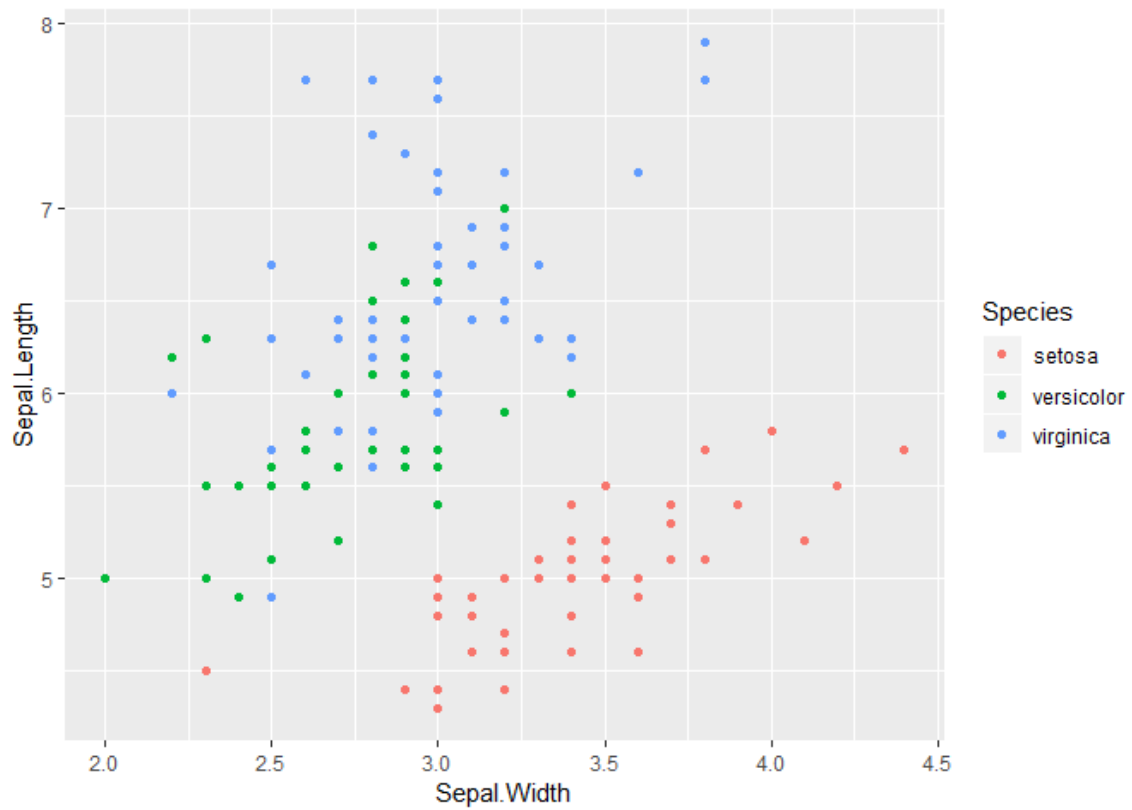
I wonder if that code output could be nicer. Not high priority.

## 1.3 Plots

We do a fair amount of plots with code

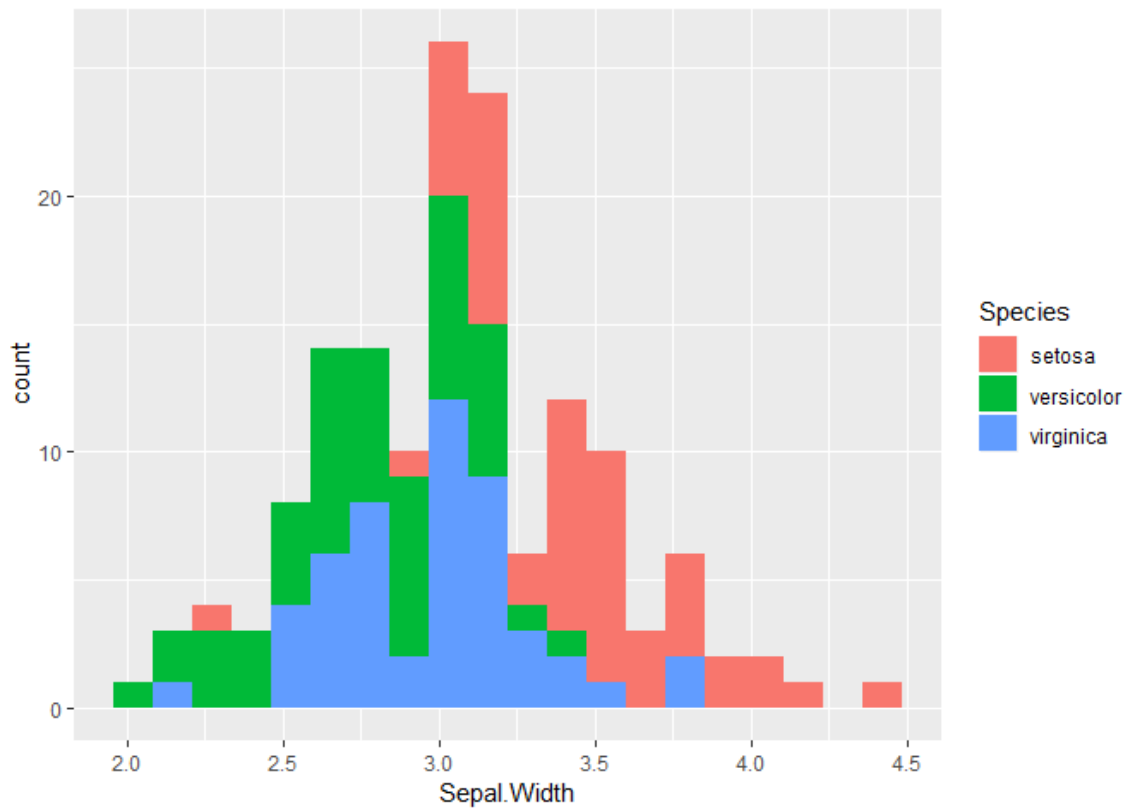
```
library(ggplot2)  
ggplot(iris) +  
  geom_point(aes(x = Sepal.Width, y = Sepal.Length, colour =  
Species))
```

## 1.3 Plots



We can manually control size but should have nice defaults

We might do plots with suppressed code.



## 1.4 Exercises and info boxes

We're going to need some way to make exercise boxes. This could be by applying a class to a section heading: `{.exercise}`

### 1.4.1 Exercise

It looks like you can use a section header and a class. The code here looks like:

```
### Exercise {.exercisebox}
```



## 1.5 Python

And then this puts everything until the next section heading in a div with the exercise class. This is super easy to style with css. We might want to remove the section label, this is up for discussion.

1. Question 1
2. Question 2

### 1.4.2 Warnings

#### 1.4.3 Watch out!

Some important warning message. Again, we can remove the section heading with javascript. There is examples of this already in the existing code.

### 1.4.4 Info

#### 1.4.5 Interesting info

When we're done can put icons and style it nicely.

## 1.5 Python

Does Python just work? Well it does. Mostly. I'm having some issues with plots too that needs working out.

```
import pandas as pd
df = pd.DataFrame({'a': [1,2,3], 'b':['a', 'b', 'c']})
print(df.head())
```

```
##      a  b
## 0    1  a
## 1    2  b
## 2    3  c
```

Looks OK. I don't love the syntax highlighting but that might be a Pandoc thing. And does it carry through?

```
df.shape
```

```
## (3, 2)
```

OK Good. What about plots?

```
import seaborn as sns
import matplotlib.pyplot as plt
iris = sns.load_dataset("iris")
sns.pairplot(iris, hue="species")
plt.show()
```

The above works in a notebook but crashes in a separate render. What about pure matplotlib

```
import matplotlib.pyplot as plt
import numpy as np
x = np.random.random(20)
y = np.random.random(20)
plt.scatter(x, y)
plt.show()
```

No this hangs too when rendering separately. Darn. It's something to do with Matplotlib loading Qt. RStudio say they've fixed it but I don't think it's fixed.

Perhaps python will have to go into markdown separately until we can fix this?

