

# Demonstration of Michigan Colors for R Graphs

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## 1 Installation

You will need to install `devtools` if you have not already done so:

```
install.packages("devtools")
```

Then use `devtools` to install `michigancolors`.

```
devtools::install_github("agrogan1/michigancolors")
```

## 2 Usage

```
library(michigancolors)
```

### 3 Allowable Colors

Colors are drawn from <https://brand.umich.edu/design-resources/colors/>.

Allowable colors are: “blue”, “maize”, “tappan red”, “ross school orange”, “wave field green”, “taubman teal”, “arboretum blue”, “ann arbor amethyst”, “matthaei violet”, “umma tan”, “burton tower beige”, “angell hall ash”, and “law quad stone”

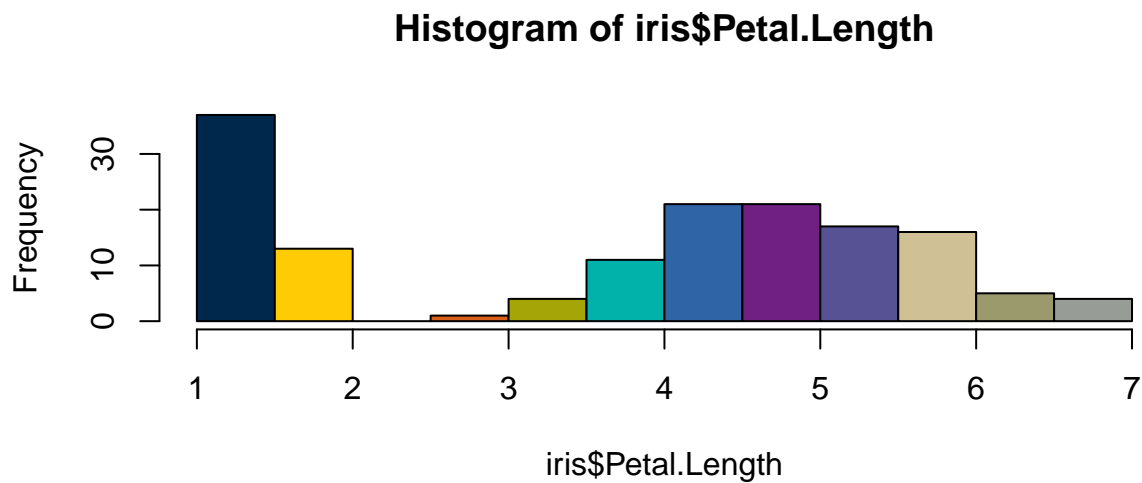
### 4 Help

```
help(michigancolors)
```

### 5 Examples

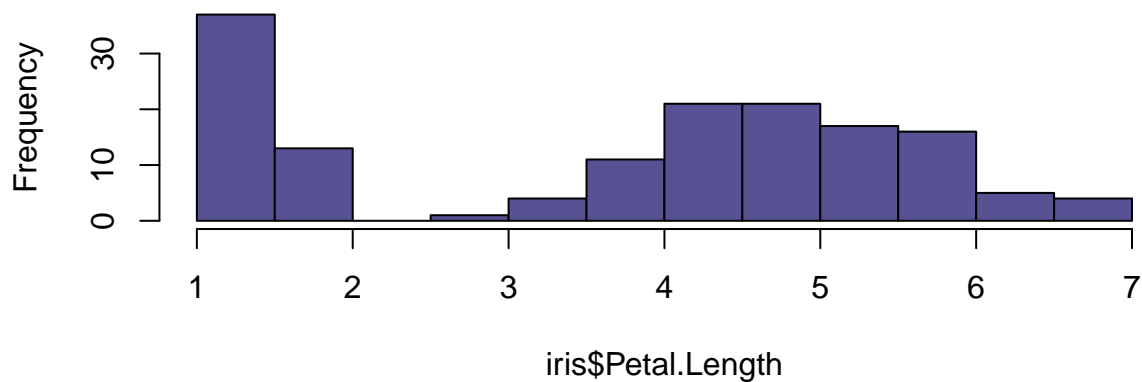
#### 5.1 Base R

```
hist(iris$Petal.Length, col = michigancolors())
```

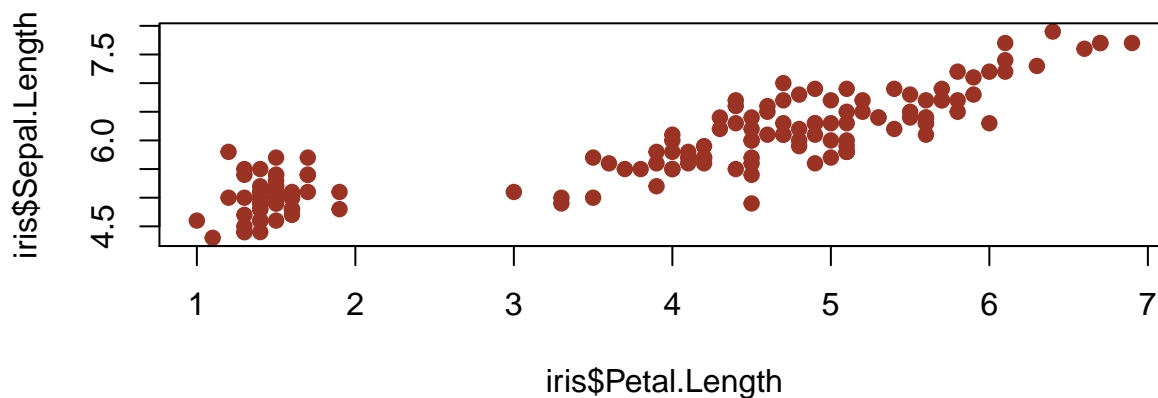


```
hist(iris$Petal.Length, col = michigancolors("matthaei violet"))
```

## Histogram of iris\$Petal.Length



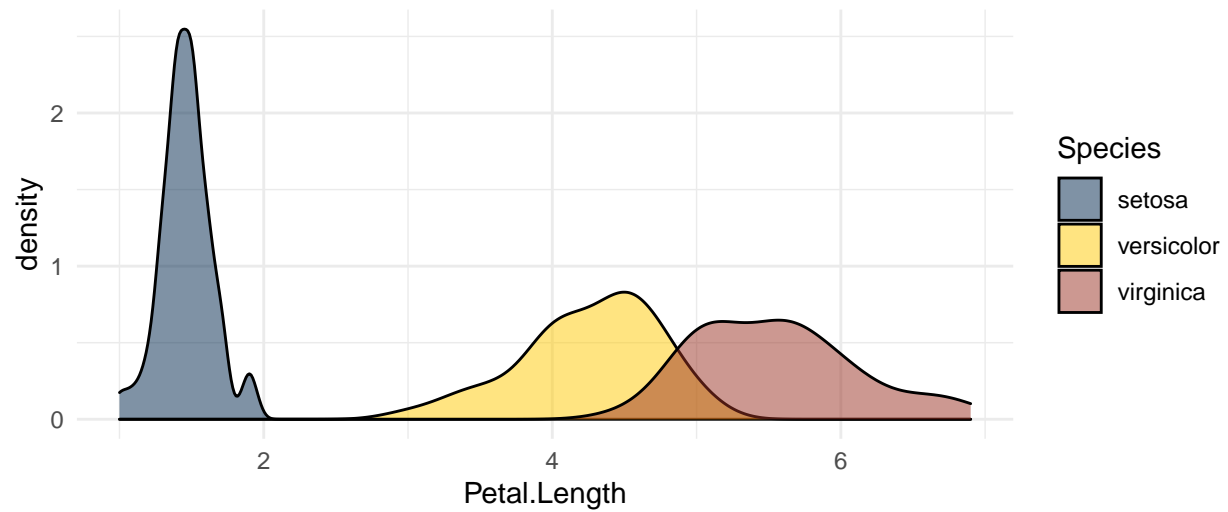
```
plot(iris$Petal.Length,  
     iris$Sepal.Length,  
     pch = 19,  
     col = michigancolors("tappan red"))
```



## 5.2 ggplot2

```
library(ggplot2)  
ggplot(iris,  
       aes(x = Petal.Length,  
           fill = Species)) +  
  geom_density(alpha = .5) +  
  ggtitle("Density Plot of Species in Iris Data Set") +  
  theme_minimal() +  
  scale_fill_manual(values = michigancolors())
```

### Density Plot of Species in Iris Data Set



```
ggplot(iris,
  aes(x = Petal.Length,
    y = Sepal.Length,
    color = Species)) +
  geom_point() +
  geom_smooth() +
  ggtitle("Scatterplot of Iris Data Set") +
  theme_minimal() +
  scale_color_manual(values = michigancolors())
```

### Scatterplot of Iris Data Set

