

Demonstration of Michigan Colors for R Graphs

Andrew Grogan-Kaylor

2021-02-25

Contents

1	Installation	1
2	Usage	1
3	Allowable Colors	2
4	Help	2
5	Examples	2
5.1	Base R	2
5.2	ggplot2	4



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”

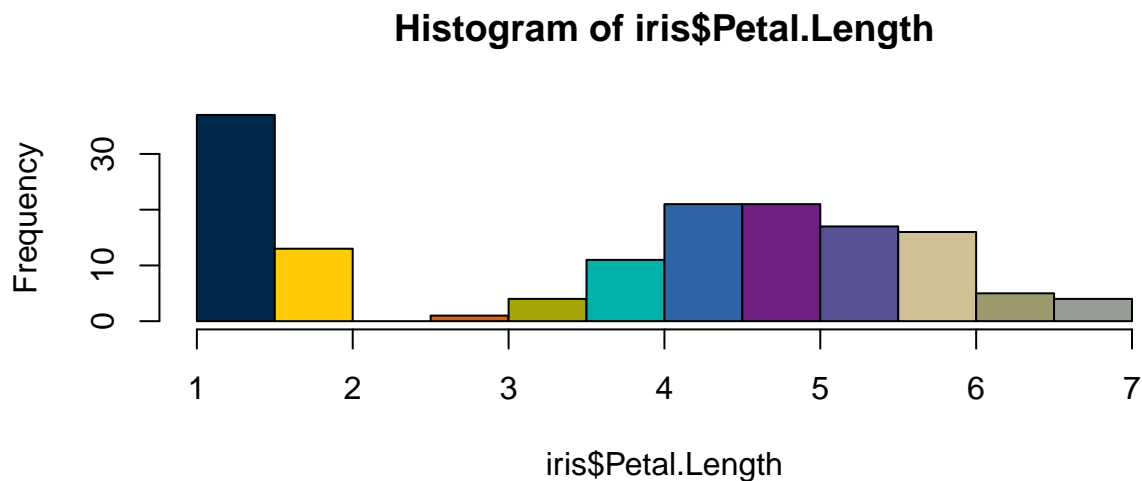
4 Help

```
help(michigancolors)
```

5 Examples

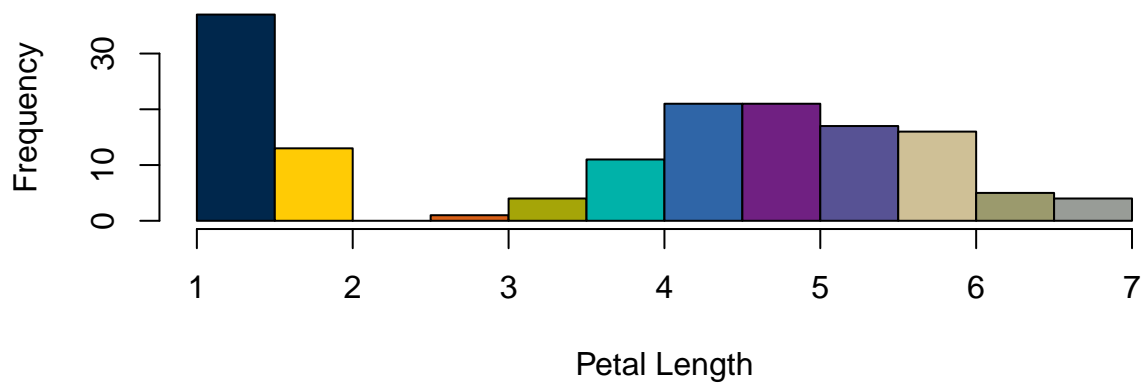
5.1 Base R

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



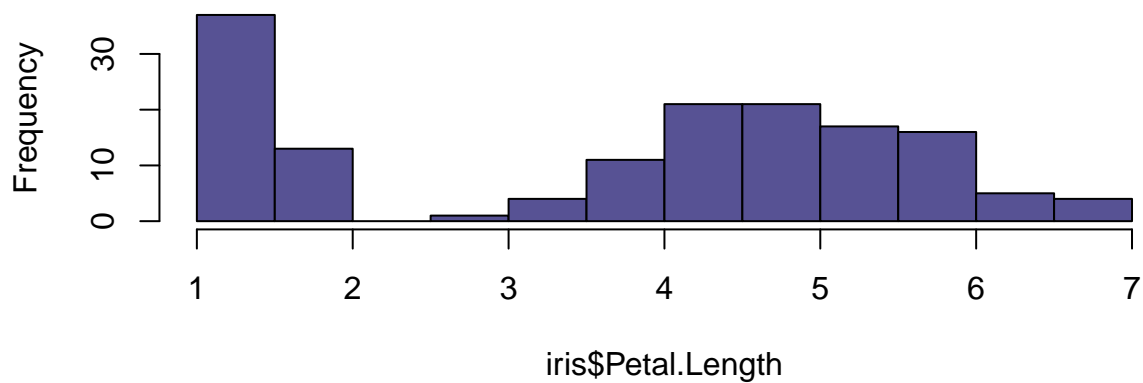
```
hist(iris$Petal.Length,  
     col = michigancolors(),  
     main = "Petal Length of Iris Flowers",  
     xlab = "Petal Length")
```

Petal Length of Iris Flowers

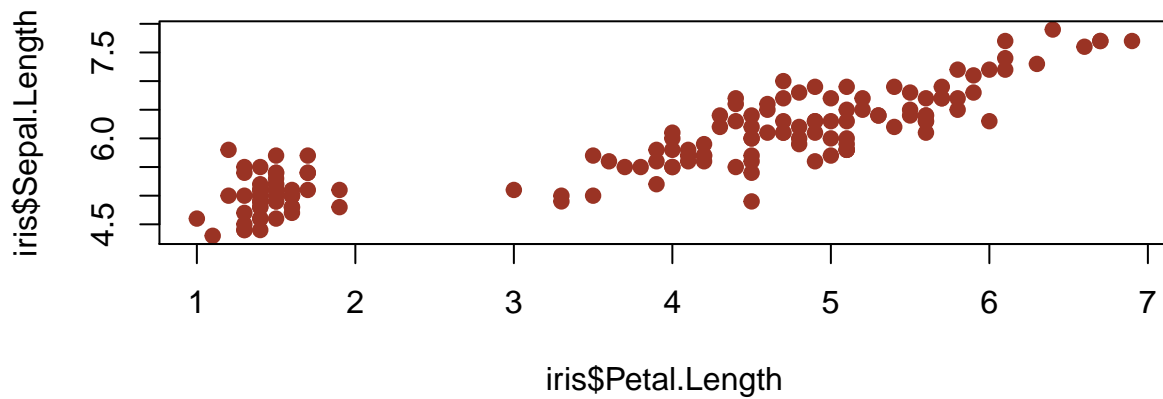


```
hist(iris$Petal.Length, col = michigancolors("matthaei violet"))
```

Histogram of iris\$Petal.Length

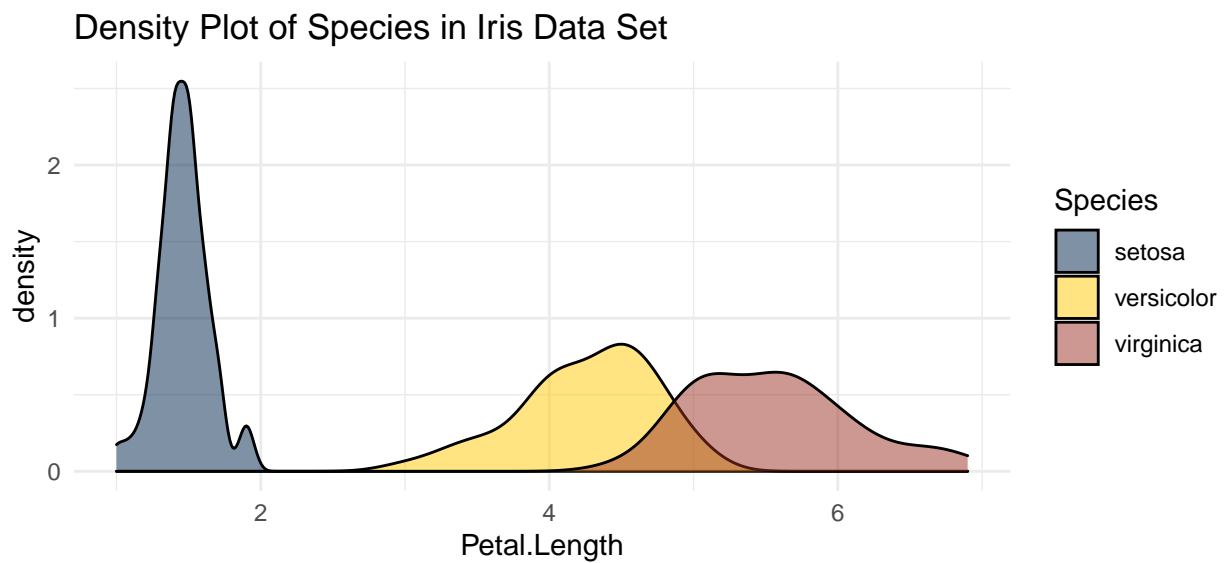


```
plot(iris$Petal.Length,  
     iris$Sepal.Length,  
     pch = 19,  
     col = michigancolors("tappan red"))
```



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())
```



```
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())
```

