# 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)

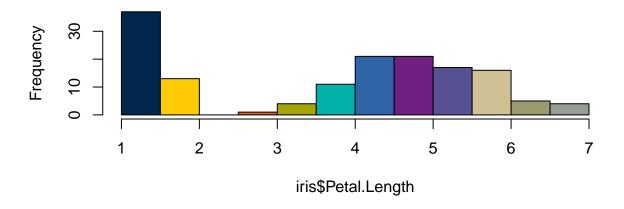
## 5 Examples

#### 5.1 Base R

#### 5.1.1 Entire Palette Of Colors

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

## Histogram of iris\$Petal.Length



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

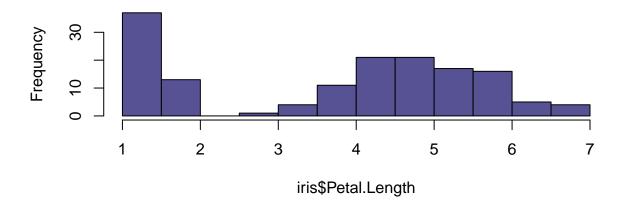
# **Petal Length of Iris Flowers**



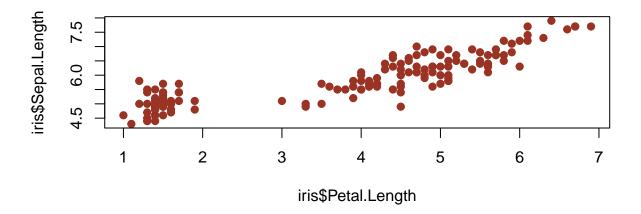
# 6 Specific Color

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"))
```



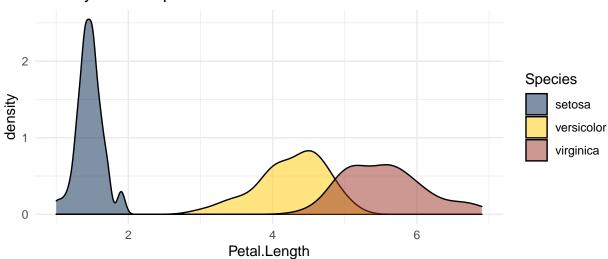
## 6.1 ggplot2

library(ggplot2)

#### 6.1.1 Entire Palette Of Colors

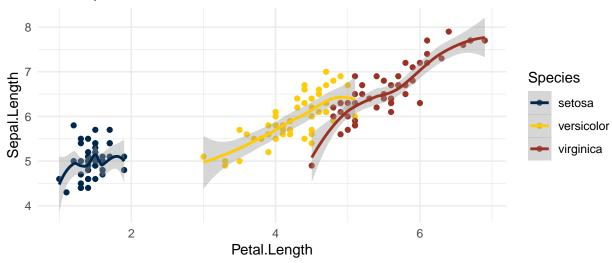
```
ggplot(iris,
    aes(x = Petal.Length,
        fill = Species)) +
geom_density(alpha = .5) +
labs(title = "Density Plot of Species in Iris Data Set") +
theme_minimal() +
scale_fill_manual(values = michigancolors())
```

## Density Plot of Species in Iris Data Set



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

## Scatterplot of Iris Data Set



### 6.1.2 Specific Colors

