

# Michigan Graph Scheme for Stata

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### 1 Introduction

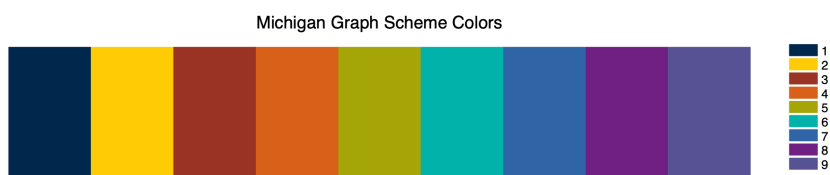


Figure 1: Colors in Michigan Graph Scheme

Stata provides the use of graph schemes that improve the overall look of graphs.

See `help scheme`.

The *Michigan graph scheme* makes use of official University of Michigan colors.

### 2 Installation

Type `net from https://agrogan1.github.io/Stata` and click the links to install.

### 3 Example Data

We are going to use the famous “iris” data collected by Edgar Anderson.

```
clear all

use "iris.dta", clear

summarize
```

Running /Users/agrogan/Desktop/GitHub/Stata/michigan-graph-scheme/profile.do

> ...

Variable	Obs	Mean	Std. dev.	Min	Max
Sepal_Length	150	5.843333	.8280661	4.3	7.9
Sepal_Width	150	3.057333	.4358663	2	4.4
Petal_Length	150	3.758	1.765298	1	6.9
Petal_Width	150	1.199333	.7622377	.1	2.5
Species	150	2	.8192319	1	3

### 4 Histogram

```
histogram Petal_Length, scheme(michigan)
```

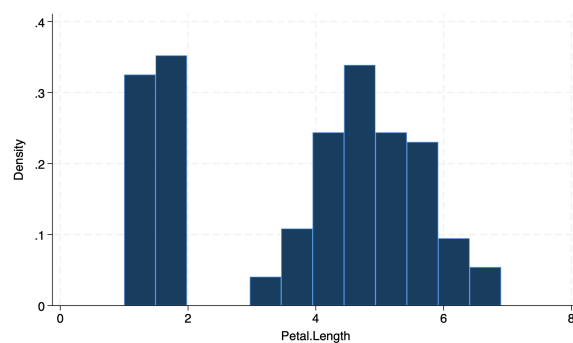


Figure 2: Histogram Using Michigan Scheme

## 5 Histogram With Transparency

```
histogram Petal_Length, fcolor(%50) scheme(michigan)
```

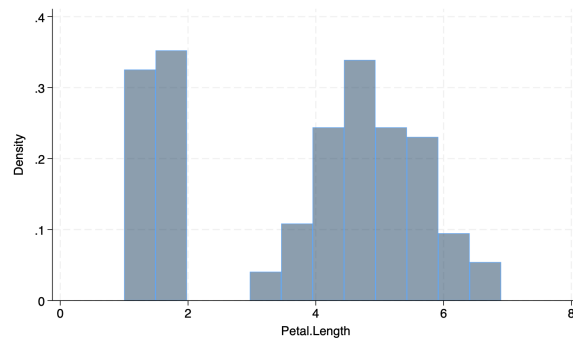


Figure 3: Histogram Using Michigan Scheme And Slightly Transparent Bars

## 6 Bar Graph

```
graph bar Petal_Length, over(Species) scheme(michigan) asyvars
```

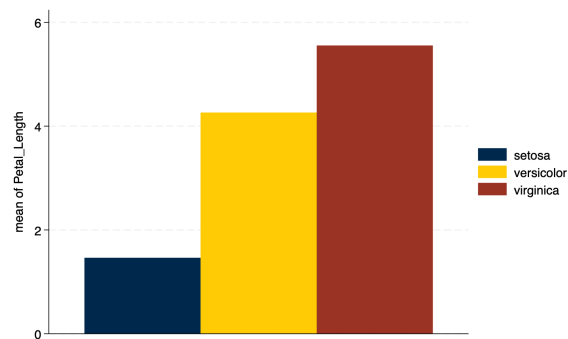


Figure 4: Bar Graph Using Michigan Scheme

## 7 Bar Graph With Transparency

```
graph bar Petal_Length, over(Species) intensity(70) scheme(michigan) asyvars
```

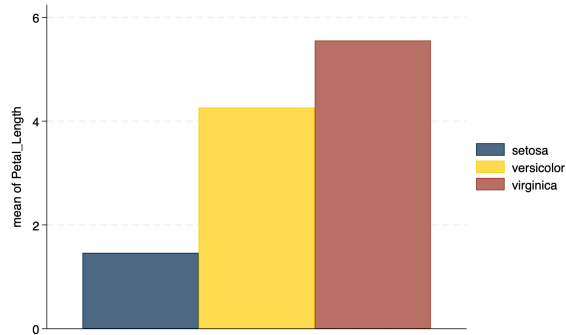


Figure 5: Bar Graph Using Michigan Scheme and Slightly Transparent Bars

## 8 Scatterplot

```
twoway (scatter Petal_Length Petal_Width) ///
(lfit Petal_Length Petal_Width), ///
scheme(michigan)
```

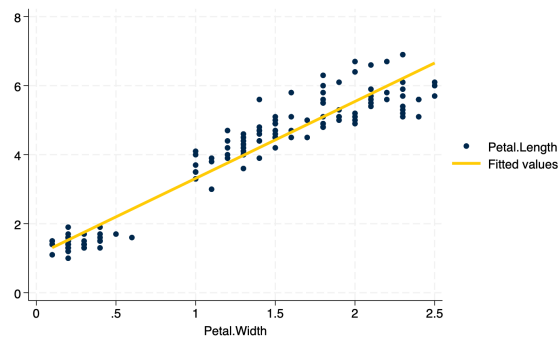


Figure 6: Scatterplot Using Michigan Scheme

## 9 Scatterplot With Transparency