

Visualizing Live Earthquake Data from the Internet

▼ Introduction

This application plots the location of all earthquakes of magnitude M1 or greater in the US over the last 2.5 days.

Reference: Data compiled by the U.S. Geological Survey and downloaded from <http://earthquake.usgs.gov/earthquakes/feed/v1.0/csv.php>

```
> restart :  
  with( StringTools ) : with( LinearAlgebra ) : with( plots ) : with( plottools ) :
```

▼ Download Earthquake Data into Matrix

Download earthquakes of magnitude 2.5 or greater in the past day

```
> A  
  := ImportMatrix( "http://earthquake.usgs.gov//earthquakes//feed//v1.0//summary//2.5_day.  
  csv" ) :  
> lonLatMag :=  $\langle\langle A_{2..,3} | A_{2..,2} | A_{2..,5} \rangle\rangle$  :  
> k := RowDimension( lonLatMag ) :
```

▶ Plot Location of Earthquakes Colored by Magnitude

▼ Visualization

```
> display( locMag, scaling = constrained, background = "worldmap.jpg", size = [ 800, 476 ], view = [ -180  
  ..180, -y( 60 ) ..y( 80 ) ], leg, axes = none)
```

