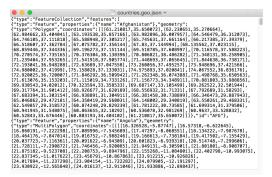


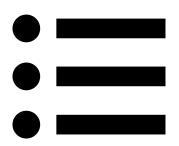
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by Christine Alvarado, Mia Minnes, and Leo Porter, 2015.

A	В	С	D	E	F
Series Name	Series Code	Country Name	Country Cod	2013 [YR201	Title
Life expectancy at birth, total (years)	SP.DYN.LE00.IN	Afghanistan	AFG	60.9314146	
Life expectancy at birth, total (years)	SP.DYN.LE00.IN	Albania	ALB	77.5372439	
Life expectancy at birth, total (years)	SP.DYN.LE00.IN	Algeria	DZA	71.0096585	
Life expectancy at birth, total (years)	SP.DYN.LE00.IN	American Samoa	ASM		
Life expectancy at birth, total (years)	SP.DYN.LE00.IN	Andorra	ADO		
Life expectancy at birth, total (years)	SP.DYN.LE00.IN	Angola	AGO	51.8661707	
Life expectancy at birth, total (years)	SP.DYN.LE00.IN	Antigua and Barbuda	ATG	75.8292927	
Life expectancy at birth, total (years)	SP.DYN.LE00.IN	Argentina	ARG	76.1872927	
Life expectancy at birth, total (years)	SP.DYN.LE00.IN	Armenia	ARM	74.5407561	
Life expectancy at birth, total (years)	SP.DYN.LE00.IN	Aruba	ABW	75.3321707	
Life expectancy at birth, total (years)	SP.DYN.LE00.IN	Australia	AUS	82.197561	
Life expectancy at birth, total (years)	SP.DYN.LE00.IN	Austria	AUT	80.8902439	
Life expectancy at birth, total (years)	SP.DYN.LE00.IN	Azerbaijan	AZE	70.6931463	
Life expectancy at birth, total (years)	SP.DYN.LE00.IN	Bahamas, The	BHS	75.072561	
Life expectancy at birth, total (years)	SP.DYN.LE00.IN	Bahrain	BHR	76.669878	

LifeExpectancyWorldBank.csv



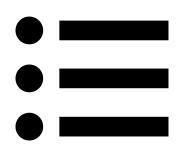
countries.geo.json



Properties and location



Visual representation





Class Feature

Prc

java.lang.Object
Lde.fhpotsdam.unfolding.data.Feature

Direct Known Subclasses:

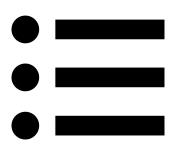
MultiFeature, PointFeature, ShapeFeature

public class Feature
extends java.lang.Object

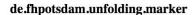
A feature stores one or more locations, its type, and additional data properties.



Visual representation



Properties and location



Interface Marker



All Known Implementing Classes:

<u>AbstractMarker</u>, <u>AbstractShapeMarker</u>, <u>MultiMarker</u>, <u>SimpleLinesMarker</u>, class in de.fhpotsdam.unfolding.marker

public interface Marker

Marker interface for all markers to be drawn on to maps. A marker has at least one hit.



Abstract data type: List

```
List<Feature> countries = new ArrayList();
```

Ordered list of things of type Feature

```
public class LifeExpectancy extends PApplet
{
    UnfoldingMap map;
    Map<String, Float> lifeExpMap;

    List<Feature> countries;
    List<Marker> countryMarkers;
    ...
}
```

```
public class LifeExpectancy extends PApplet
  List<Feature> countries;
  List<Marker> countryMarkers;
  public void setup() {
   1 Feature + 1 Marker per Country
   countries = GeoJSONReader.loadData(this,
          "data/countries.geo.json");
   countryMarkers = MapUtils.createSimpleMarkers
(countries);
```

```
public class LifeExpectancy extends PApplet
  public void setup() {
   lifeExpByCountry = loadLifeExpectancyFromCSV(
          "data/LifeExpectancyWorldBank.csv");
   countries = GeoJSONReader.loadData(this,
          "data/countries.geo.json");
   countryMarkers = MapUtils.createSimpleMarkers
(countries);
   nap.addMarkers(countryMarkers);
   snadeCountries();
```

```
private void shadeCountries() {
```

```
private void shadeCountries() {
  for (Marker marker : countryMarkers) {
   String countryId = marker.getId();
```

```
private void shadeCountries() {
  for (Marker marker : countryMarkers) {
   String countryId = marker.getId();
   if (lifeExpMap.containsKey(countryId)) {
     float lifeExp = lifeExpMap.get(countryId);
   else {
```

```
private void shadeCountries() {
  for (Marker marker : countryMarkers) {
   String countryId = marker.getId();
   if (lifeExpMap.containsKey(countryId)) {
     float lifeExp = lifeExpMap.get(countryId);
     int colorLevel = (int) map(lifeExp, 40, 90, 10, 255);
   else {
```

```
private void shadeCountries() {
  for (Marker marker : countryMarkers) {
   String countryId = marker.getId();
   if (lifeExpMap.containsKey(countryId)) {
     float lifeExp = lifeExpMap.get(countryId);
     int colorLevel = (int) map(lifeExp, 40, 90, 10, 255);
     marker.setColor(color(255-colorLevel, 100,
colorLevel));
   else {
     marker.setColor(color(150,150,150));
```

