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Python

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In(3): Scala

```
1  val colors = Array("red", "green", "blue")
2  val n = 750
3  val flattenedLength = colors.length * n * 2 // 2 for x and y
4  val data = (0 until flattenedLength).map(_ => Math.random()).toArray // conve
```

And now, let's plot it in Python

In(5): Python

```
 1  import matplotlib.pyplot as plt
 2  from numpy.random import rand
 3
 4  fig, ax = plt.subplots()
 5
 6  for color in colors:
 7      # since data is just a 1-D array we need to split it up to fit the matpl
 8      x = data[:n]
 9      data = data[n:]
10      y = data[:n]
11      data = data[n:]
12
13      scale = 200.0 * rand(n)
14      ax.scatter(x, y, c=color, s=scale, label=color,
15                 alpha=0.3, edgecolors='none')
16
17  ax.legend()
18  ax.grid(True)
19
20  plt.show()
```