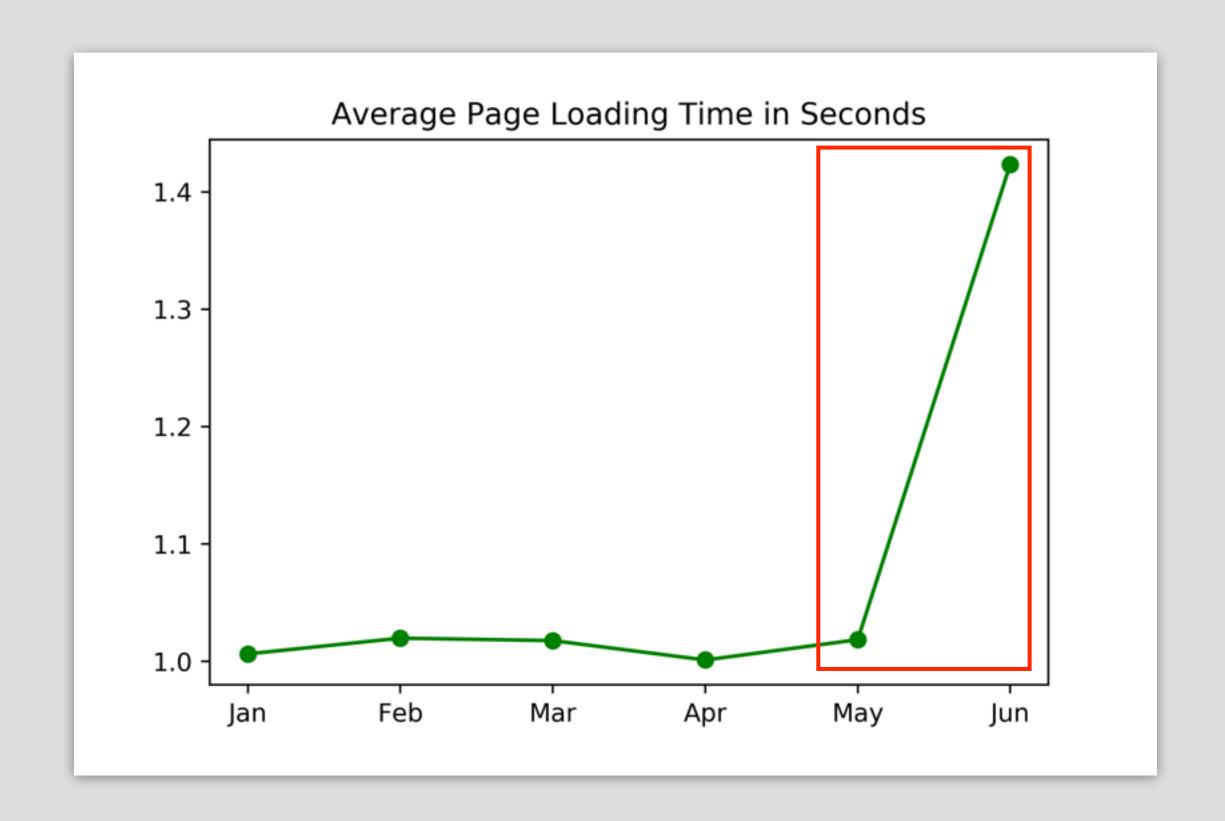
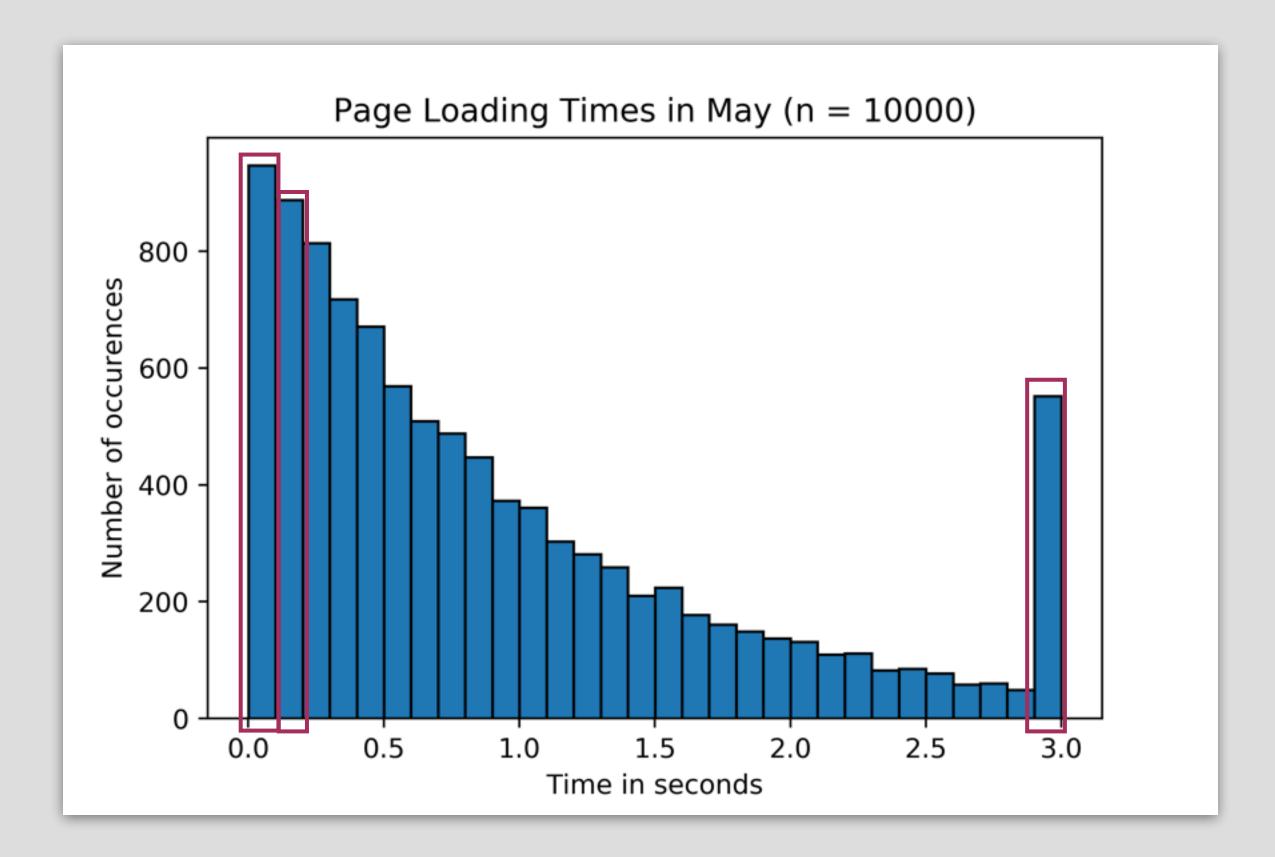
Finding Distribution of Data with Histograms



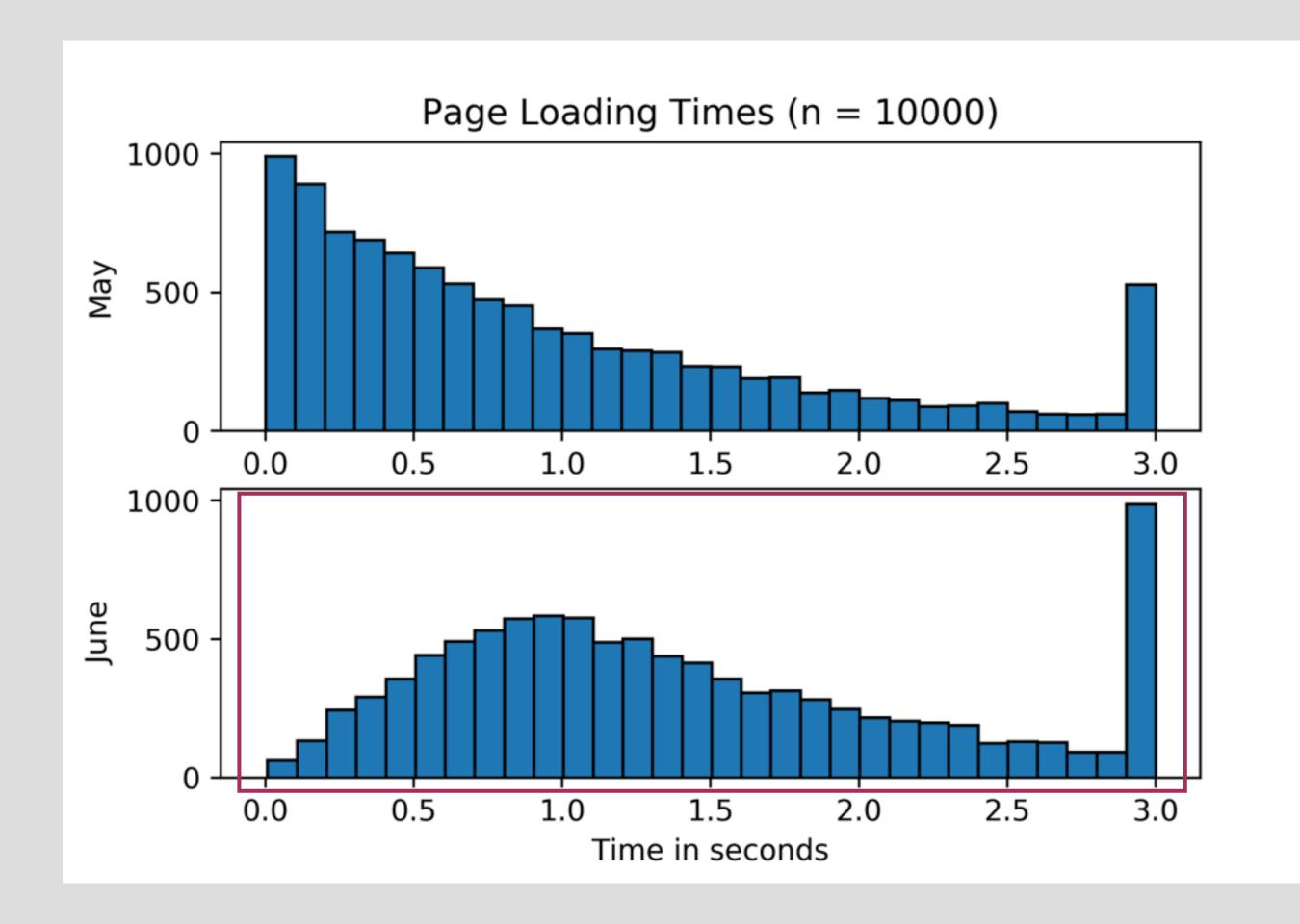
YK Sugishita
SOFTWARE DEVELOPER / DATA SCIENTIST
www.csdojo.io

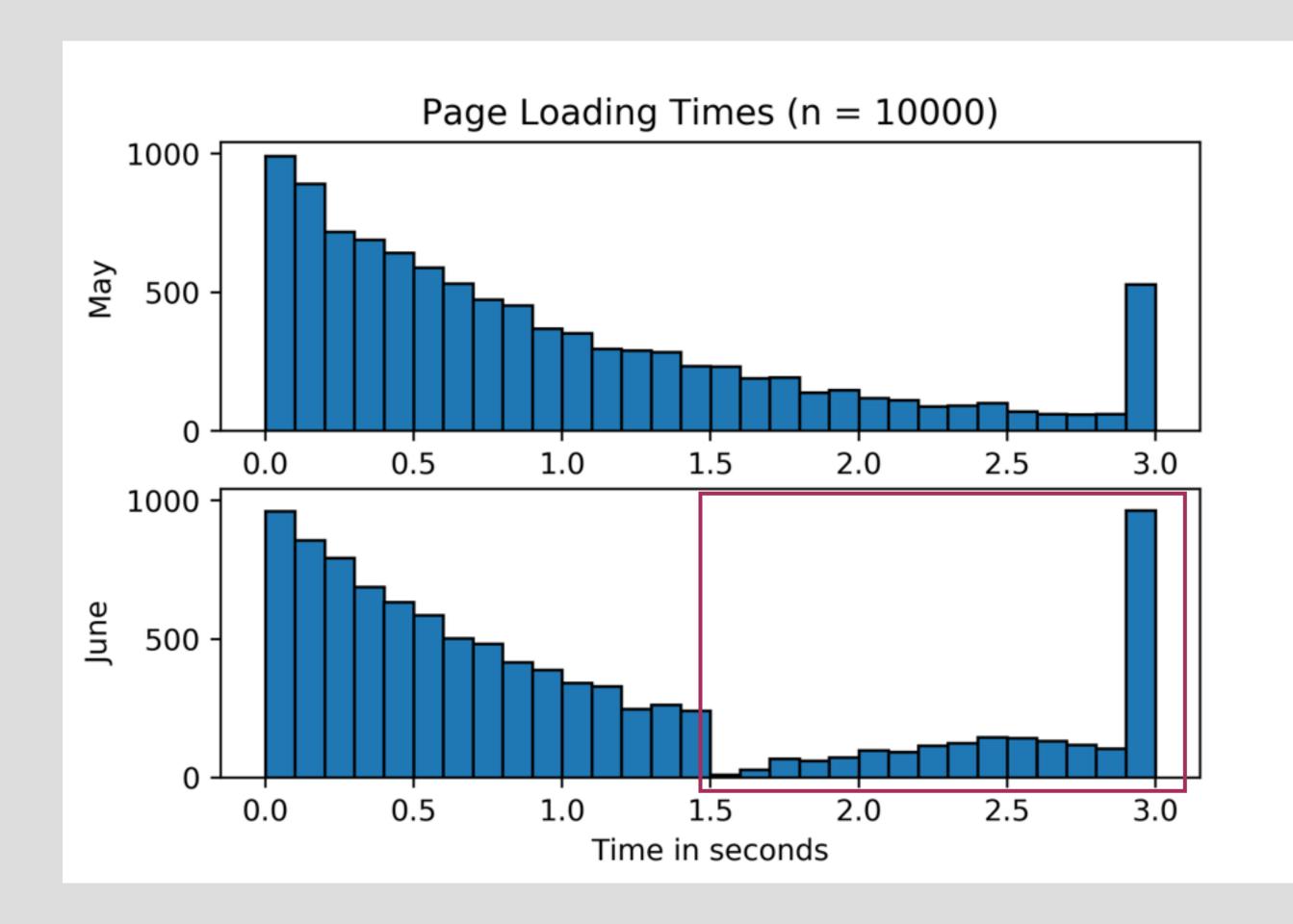






Note: Any value larger than 3 is bundled into the last bin





Histograms

Helps you understand the distribution of a numeric value in a way that you cannot with mean or median alone

Creating Histograms with Matplotlib

Problem: Comparing Asia and Europe's GDP Per Capita in 2007

countries.csv

country	continent	year	lifeExpectancy	population	gdpPerCapita
Afghanistan	Asia	1952	28.801	8425333	779.4453145
Afghanistan	Asia	1957	30.332	9240934	820.8530296
Afghanistan	Asia	1962	31.997	10267083	853.10071
			•		
Zimbabwe	Africa	1997	46.809	11404948	792.4499603
Zimbabwe	Africa	2002	39.989	11926563	672.0386227
Zimbabwe	Africa	2007	43.487	12311143	469.7092981

Demo

Creating Histograms with Matplotlib

- Create histograms
- Use Matplotlib's subplot() function

Practice Problem 1 - Histograms

Problem: Compare Europe and Americas' Life Expectancy in 1997

Compare Europe and Americas' Life Expectancy

Use Matplotlib's hist() function
Use subplot() to compare histograms
Pause video

Demo

Example solution