```
from google.colab import drive
drive.mount('/content/drive')

    Mounted at /content/drive

import pandas as pd
import seaborn as sns
import numpy as np
import matplotlib.pyplot as plt
%matplotlib inline
from bokeh.plotting import *
from bokeh.models import ColumnDataSource

path ='/content/drive/MyDrive/Colab Notebooks/Lemonade2016-2.csv'

lemon = pd.read_csv(path)
```



	Date	Location	Lemon	Orange	Temperature	Leaflets	Price
0	7/1/16	Park	97	67	70	90.0	0.25
1	7/2/16	Park	98	67	72	90.0	0.25
2	7/3/16	Park	110	77	71	104.0	0.25
3	7/4/16	Beach	134	99	76	98.0	0.25
4	7/5/16	Beach	159	118	78	135.0	0.25
5	7/6/16	Beach	103	69	82	90.0	0.25
6	7/6/16	Beach	103	69	82	90.0	0.25
7	7/7/16	Beach	143	101	81	135.0	0.25
8	NaN	Beach	123	86	82	113.0	0.25
9	7/9/16	Beach	134	95	80	126.0	0.25
10	7/10/16	Beach	140	98	82	131.0	0.25
11	7/11/16	Beach	162	120	83	135.0	0.25
12	7/12/16	Beach	130	95	84	99.0	0.25
13	7/13/16	Beach	109	75	77	99.0	0.25
14	7/14/16	Beach	122	85	78	113.0	0.25
emon['S	ales'] =	= lemon['L	emon']+	lemon['C	range']		
10	1110110	υσασιί	O I	50	ı¬	55.5	0.00
emon['R	evenue'	= lemon['Sales']*lemon['Price']		
18	7/18/16	Park	131	92	21	122 በ	ი 50
emon							

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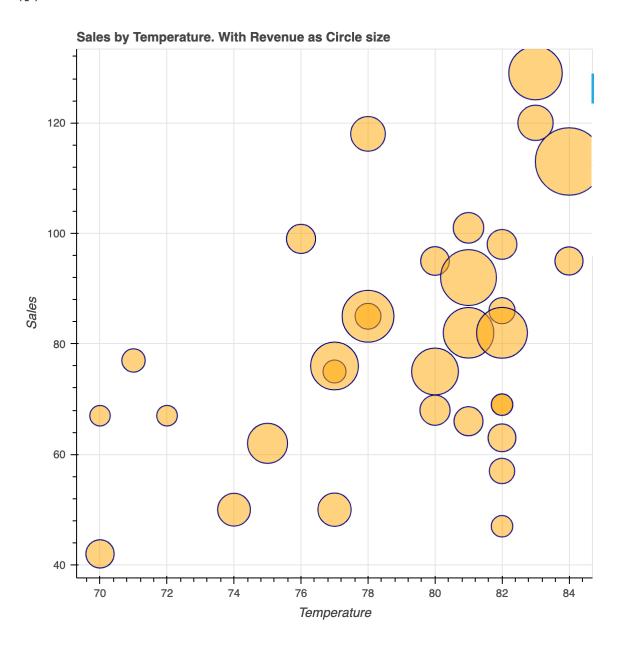
	Date	Location	Lemon	Orange	Temperature	Leaflets	Price	Sales	Revenue	
0	7/1/16	Park	97	67	70	90.0	0.25	164	41.00	
1	7/2/16	Park	98	67	72	90.0	0.25	165	41.25	
2	7/3/16	Park	110	77	71	104.0	0.25	187	46.75	
3	7/4/16	Beach	134	99	76	98.0	0.25	233	58.25	
4	7/5/16	Beach	159	118	78	135.0	0.25	277	69.25	
5	7/6/16	Beach	103	69	82	90.0	0.25	172	43.00	
6	7/6/16	Beach	103	69	82	90.0	0.25	172	43.00	
7	7/7/16	Beach	143	101	81	135.0	0.25	244	61.00	
8	NaN	Beach	123	86	82	113.0	0.25	209	52.25	
9	7/9/16	Beach	134	95	80	126.0	0.25	229	57.25	
10	7/10/16	Beach	140	98	82	131.0	0.25	238	59.50	
11	7/11/16	Beach	162	120	83	135.0	0.25	282	70.50	
12	7/12/16	Beach	130	95	84	99.0	0.25	225	56.25	
13	7/13/16	Beach	109	75	77	99.0	0.25	184	46.00	
14	7/14/16	Beach	122	85	78	113.0	0.25	207	51.75	
15	7/15/16	Beach	98	62	75	108.0	0.50	160	80.00	
16	7/16/16	Beach	81	50	74	90.0	0.50	131	65.50	
17	7/17/16	Beach	115	76	77	126.0	0.50	191	95.50	
18	7/18/16	Park	131	92	81	122.0	0.50	223	111.50	
19	7/19/16	Park	122	85	78	113.0	0.50	207	103.50	
20	7/20/16	Park	71	42	70	NaN	0.50	113	56.50	
21	7/21/16	Park	83	50	77	90.0	0.50	133	66.50	
22	7/22/16	Park	112	75	80	108 0	0.50	187	93 50	
<pre>from bokeh.io import show, output_notebook from bokeh.plotting import figure</pre>										
	1124/10	raik	اکا	04	0∠	117.0	ບເວບ	۷۷۵	າບາ.ວບ	
<pre>output_notebook()</pre>										
26	7/06/16	Dork	176	100	၀၀	150 0	U 3E	SUE	106 75	
lemon										

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	Date	Location	Lemon	Orange	Temperature	Leaflets	Price	Sales	Revenue
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1	7/2/16	Park	98	67	72	90.0	0.25	165	41.25
2	7/3/16	Park	110	77	71	104.0	0.25	187	46.75
3	7/4/16	Beach	134	99	76	98.0	0.25	233	58.25
4	7/5/16	Beach	159	118	78	135.0	0.25	277	69.25
5	7/6/16	Beach	103	69	82	90.0	0.25	172	43.00
6	7/6/16	Beach	103	69	82	90.0	0.25	172	43.00
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13	7/13/16	Beach	109	75	77	99.0	0.25	184	46.00
14	7/14/16	Beach	122	85	78	113.0	0.25	207	51.75
15	7/15/16	Beach	98	62	75	108.0	0.50	160	80.00
16	7/16/16	Beach	81	50	74	90.0	0.50	131	65.50
17	7/17/16	Beach	115	76	77	126.0	0.50	191	95.50
18	7/18/16	Park	131	92	81	122.0	0.50	223	111.50
19	7/19/16	Park	122	85	78	113.0	0.50	207	103.50
20	7/20/16	Park	71	42	70	NaN	0.50	113	56.50
21	7/21/16	Park	83	50	77	90.0	0.50	133	66.50
22	7/22/16	Park	112	75	80	108.0	0.50	187	93.50
23	7/23/16	Park	120	82	81	117.0	0.50	202	101.00
24	7/24/16	Park	121	82	82	117.0	0.50	203	101.50
25	7/25/16	Park	156	113	84	135.0	0.50	269	134.50
26	7/26/16	Park	176	129	83	158.0	0.35	305	106.75
27	7/27/16	Park	104	68	80	99.0	0.35	172	60.20
28	7/28/16	Park	96	63	82	90.0	0.35	159	55.65
29	7/29/16	Park	100	66	81	95.0	0.35	166	58.10
~~	7/00/40	Б .	00		22	01.0	2 25	4.45	FA 7F

p = figure(title="Sales by Temperature. With Revenue as Circle size", x_axis_label = p.circle(lemon['Temperature'], lemon['Orange'], size=lemon['Revenue']/2, line_color=" GlyphRenderer(id = '1038', ...)

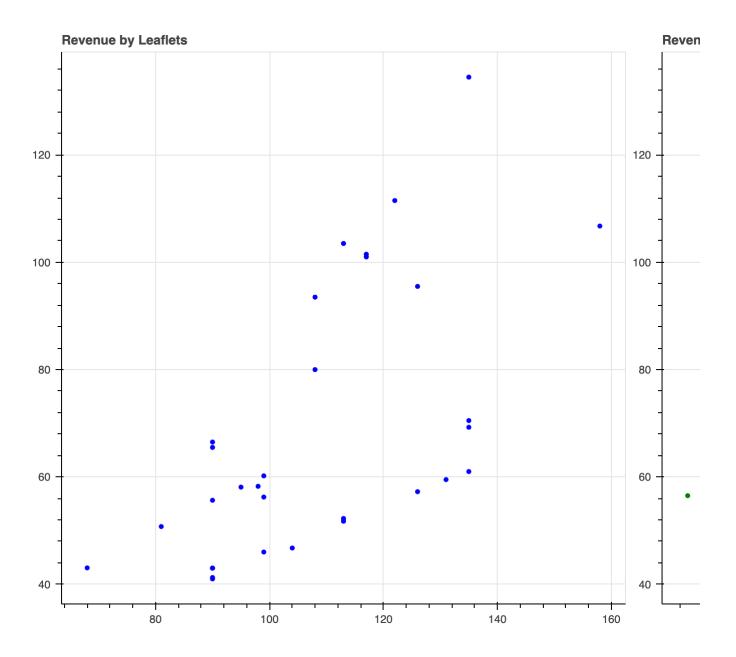
output_file('Rao-DS201-HW4-plot1.html') show(p)



D_source = ColumnDataSource(lemon) TOOLS = "pan, wheel_zoom, box_zoom, reset, save, box_select, lasso_select" p1 = figure(tools=TOOLS, title="Revenue by Leaflets")

p1.circle('Leaflets', 'Revenue', color="blue", source=D_source)

show(p)



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