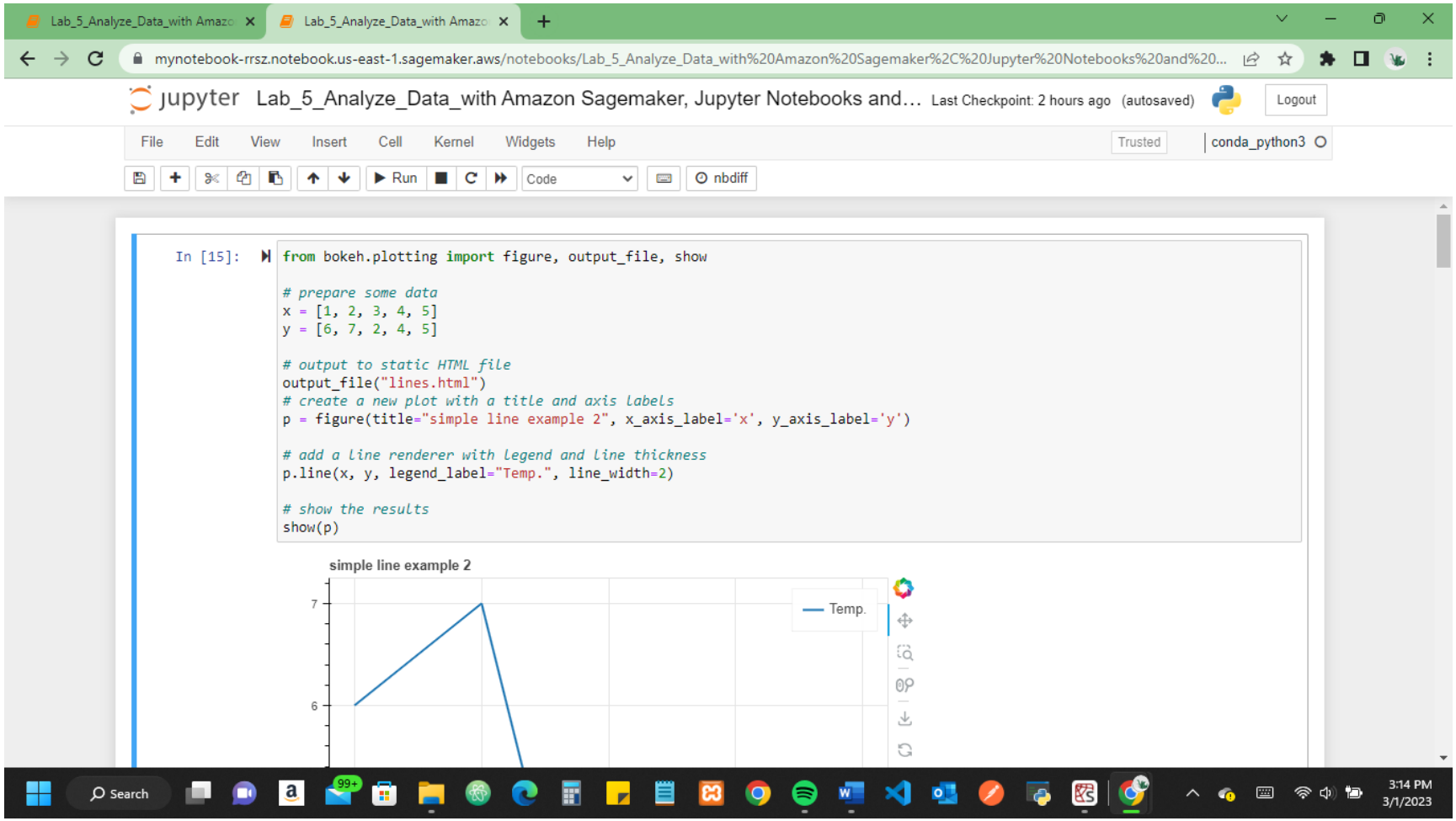
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Lab_5_Analyze_Data_with Amazo
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Trusted
conda_python3
Run
Code
nbdiff
In [15]:
from bokeh.plotting import figure, output_file, show
# prepare some data
x = [1, 2, 3, 4, 5]
y = [6, 7, 2, 4, 5]
# output to static HTML file
output_file("lines.html")
# create a new plot with a title and axis labels
p = figure(title="simple line example 2", x_axis_label='x', y_axis_label='y')
# add a line renderer with legend and line thickness
p.line(x, y, legend_label="Temp.", line_width=2)
# show the results
show(p)
simple line example 2
Temp.
7
6
Search
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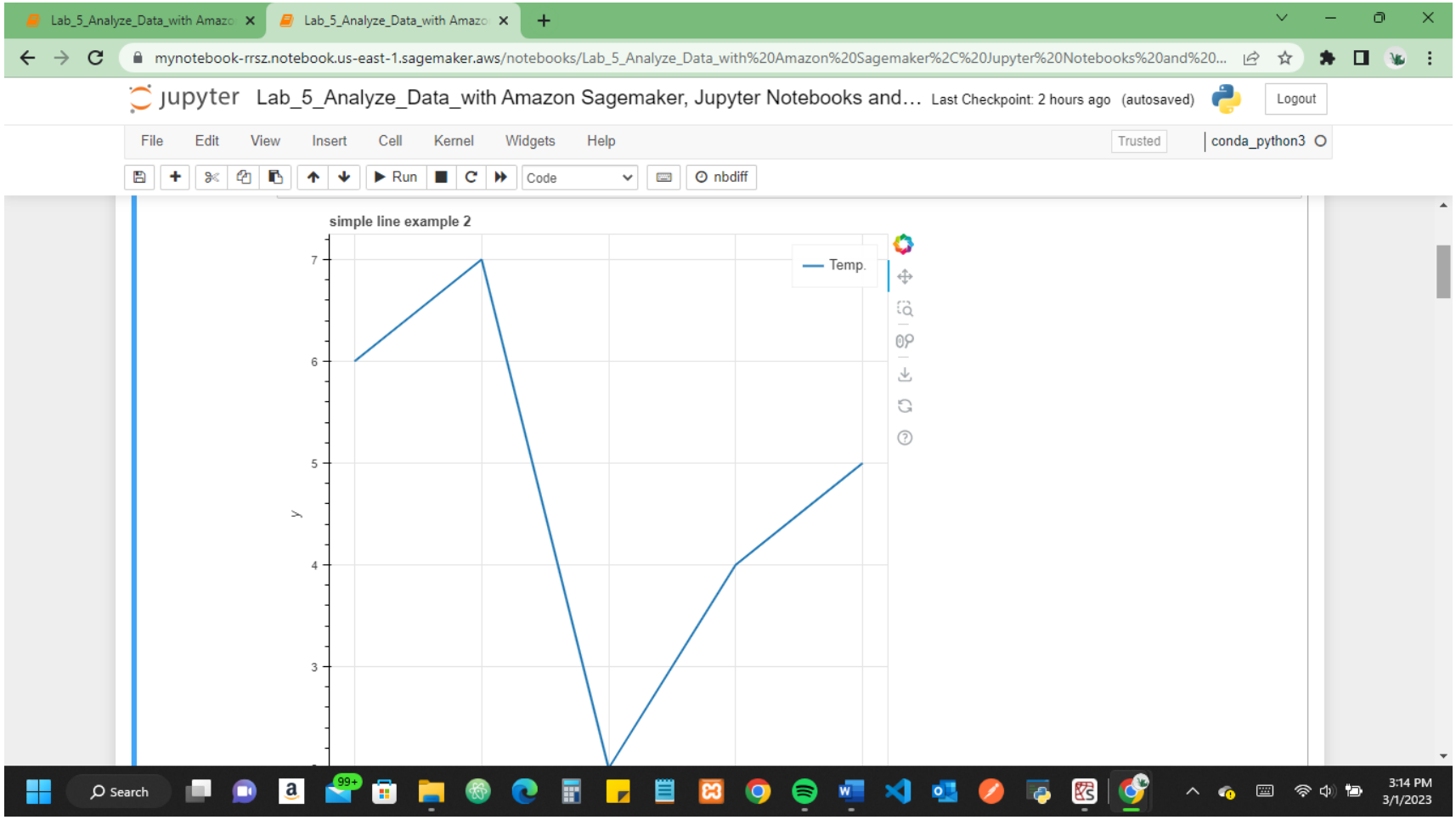
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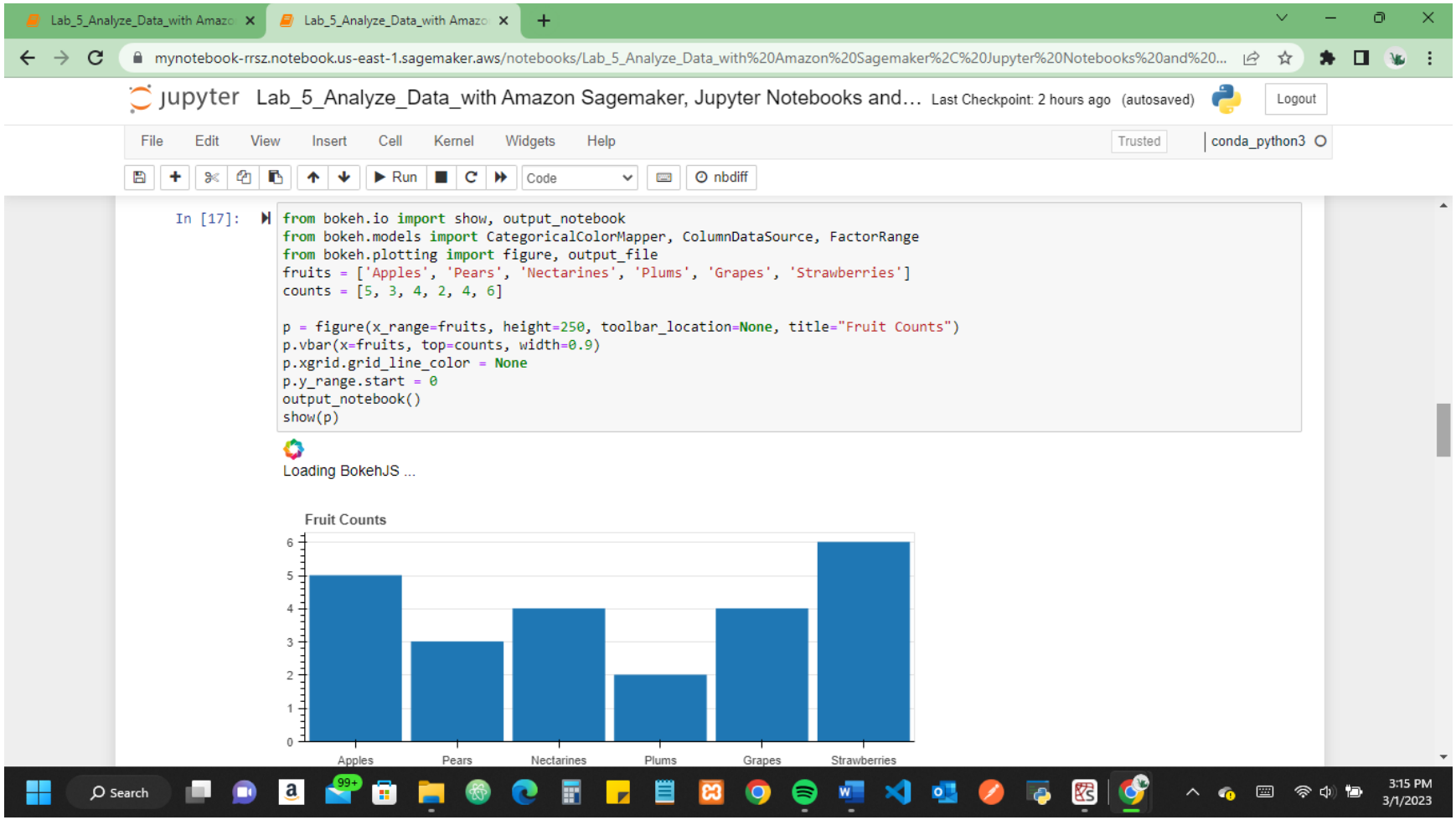
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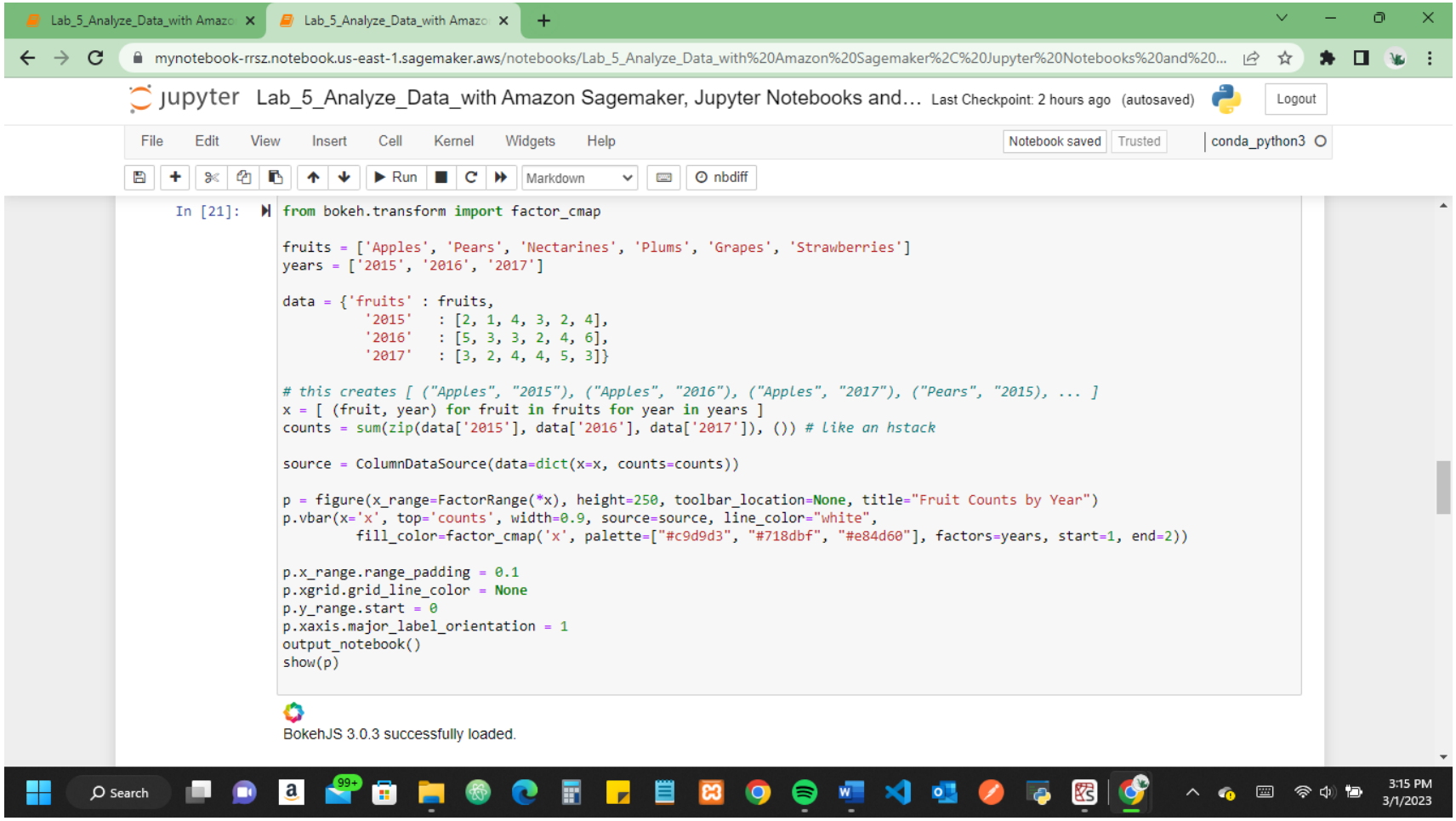
conda_python3
Run
Code
nbdiff
In [17]:
from bokeh.io import show, output_notebook
from bokeh.models import CategoricalColorMapper, ColumnDataSource, FactorRange
from bokeh.plotting import figure, output_file
fruits = ['Apples', 'Pears', 'Nectarines', 'Plums', 'Grapes', 'Strawberries']
counts = [5, 3, 4, 2, 4, 6]
p = figure(x_range=fruits, height=250, toolbar_location=None, title="Fruit Counts")
p.vbar(x=fruits, top=counts, width=0.9)
p.xgrid.grid_line_color = None
p.y_range.start = 0
output_notebook()
show(p)
Loading BokehJS ...
Fruit Counts
0
1
2
3
4
5
6
Apples
Pears
Nectarines
Plums
Grapes
Strawberries
Search
3:15 PM
3/1/2023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Run
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In [21]:
from bokeh.transform import factor_cmap
fruits = ['Apples', 'Pears', 'Nectarines', 'Plums', 'Grapes', 'Strawberries']
years = ['2015', '2016', '2017']
data = {'fruits' : fruits,
'2015' : [2, 1, 4, 3, 2, 4],
'2016' : [5, 3, 3, 2, 4, 6],
'2017' : [3, 2, 4, 4, 5, 3]}
# this creates [("Apples", "2015"), ("Apples", "2016"), ("Apples", "2017"), ("Pears", "2015), ...]
x = [(fruit, year) for fruit in fruits for year in years]
counts = sum(zip(data['2015'], data['2016'], data['2017']), ()) # like an hstack
source = ColumnDataSource(data=dict(x=x, counts=counts))
p = figure(x_range=FactorRange(*x), height=250, toolbar_location=None, title="Fruit Counts by Year")
p.vbar(x='x', top='counts', width=0.9, source=source, line_color="white",
fill_color=factor_cmap('x', palette=["#c9d9d3", "#718dbf", "#e84d60"], factors=years, start=1, end=2))
p.x_range.range_padding = 0.1
p.xgrid.grid_line_color = None
p.y_range.start = 0
p.xaxis.major_label_orientation = 1
output_notebook()
show(p)
BokehJS 3.0.3 successfully loaded.
Search
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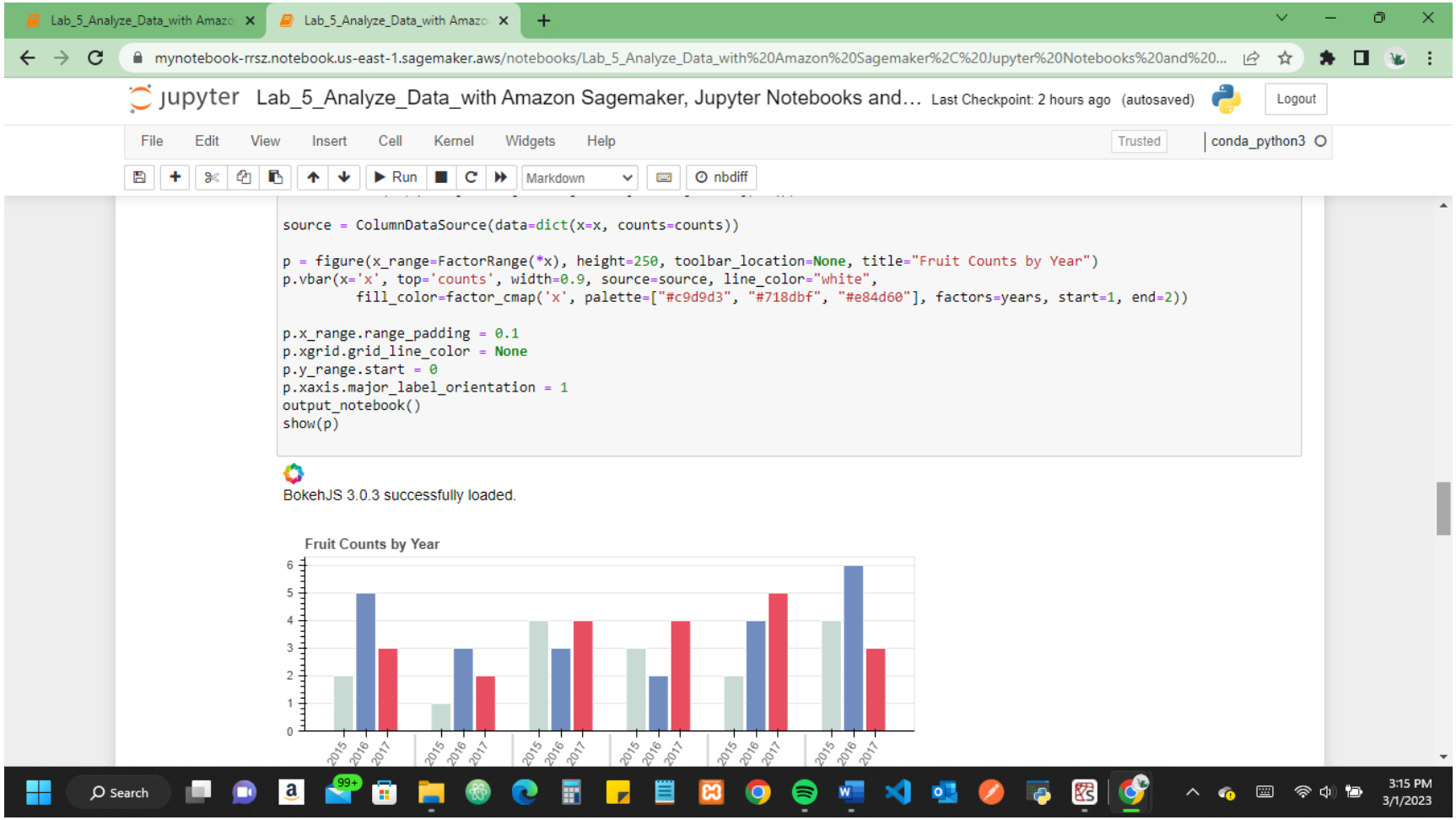
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p = figure(x_range=FactorRange(*x), height=250, toolbar_location=None, title="Fruit Counts by Year")
p.vbar(x='x', top='counts', width=0.9, source=source, line_color="white",
fill_color=factor_cmap('x', palette=["#c9d9d3", "#718dbf", "#e84d60"], factors=years, start=1, end=2))
p.x_range.range_padding = 0.1
p.xgrid.grid_line_color = None
p.y_range.start = 0
p.xaxis.major_label_orientation = 1
output_notebook()
show(p)
BokehJS 3.0.3 successfully loaded.
Fruit Counts by Year
0
1
2
3
4
5
6
2015
2016
2017
Search
3:15 PM
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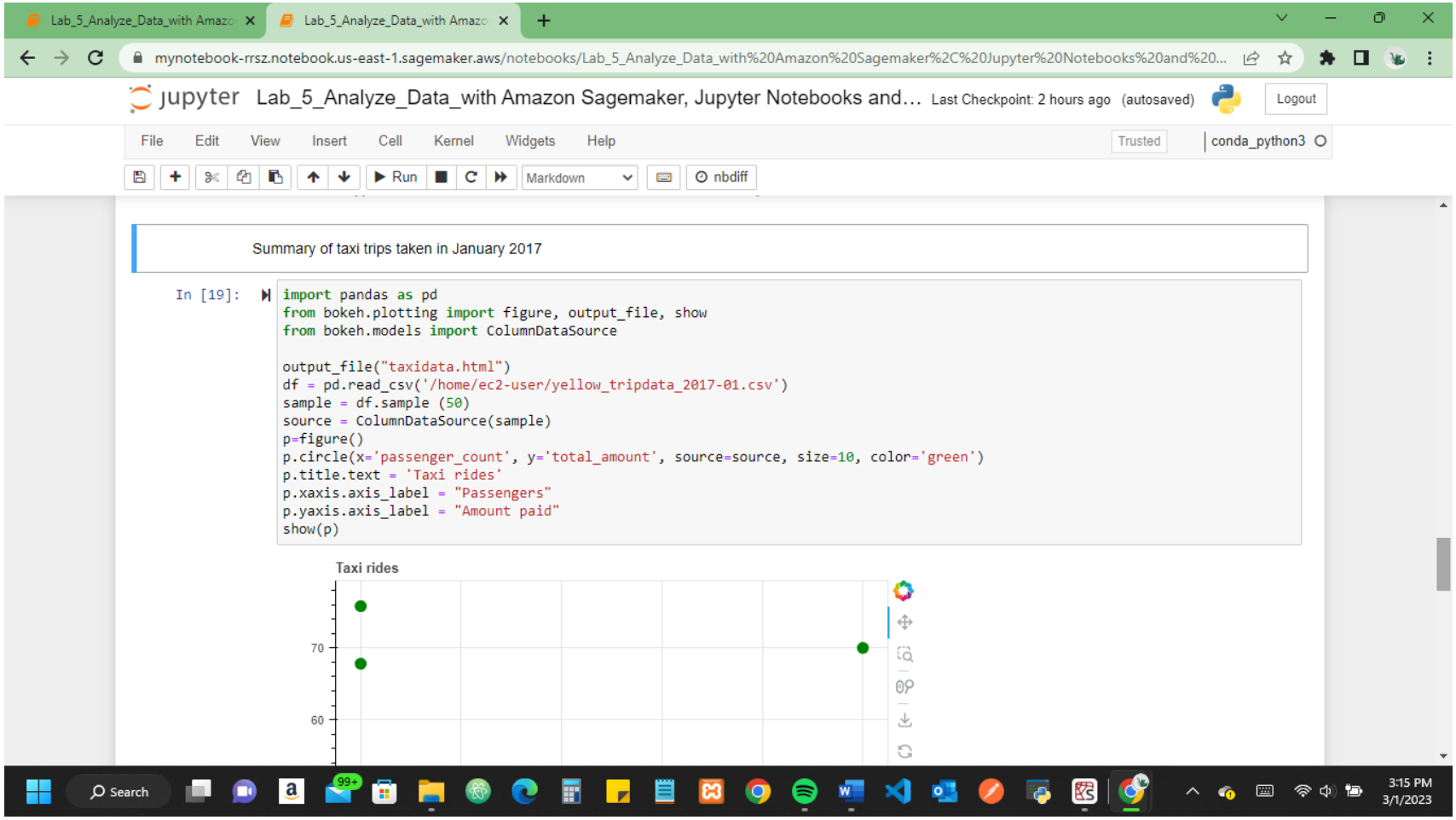
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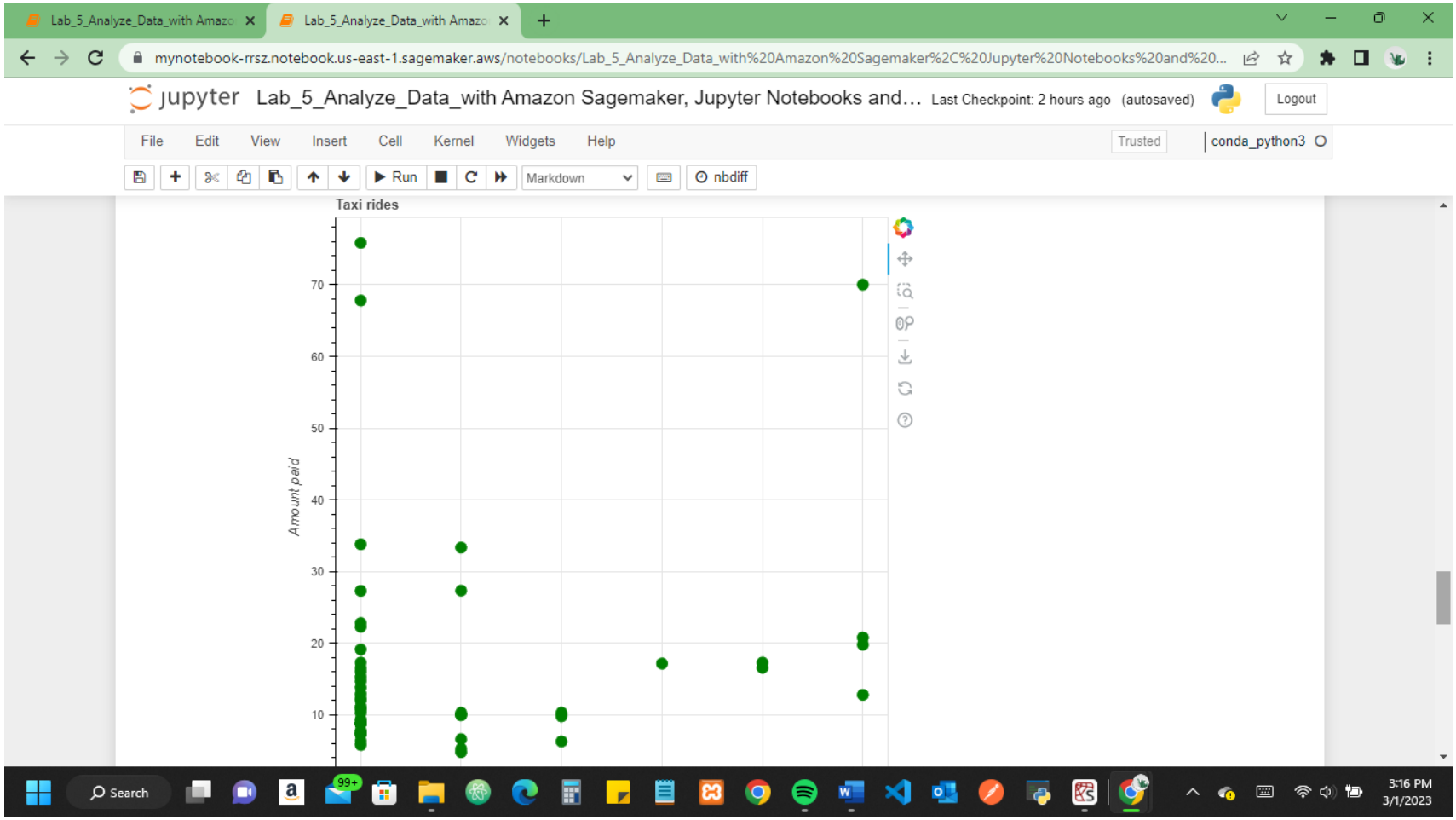
conda_python3
Run
Markdown
nbdiff
Summary of taxi trips taken in January 2017
In [19]:
import pandas as pd
from bokeh.plotting import figure, output_file, show
from bokeh.models import ColumnDataSource
output_file("taxidata.html")
df = pd.read_csv('/home/ec2-user/yellow_tripdata_2017-01.csv')
sample = df.sample (50)
source = ColumnDataSource(sample)
p=figure()
p.circle(x='passenger_count', y='total_amount', source=source, size=10, color='green')
p.title.text = 'Taxi rides'
p.xaxis.axis_label = "Passengers"
p.yaxis.axis_label = "Amount paid"
show(p)
Taxi rides
70
60
Search
3:15 PM
3/1/2023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conda_python3
Run
Markdown
nbdiff
Taxi rides
Amount paid
70
60
50
40
30
20
10
Search
3:16 PM
3/1/2023