



Graph2



default ▾

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```
import org.apache.spark.sql.functions._
import org.joda.time.format.DateTimeFormat

// Load data - adjust the path to the location of your data
val inputPath = "/Users/neha/Documents/Capstone/pollution*"
val data1 = sqlContext.read
  .format("com.databricks.spark.csv")
  .option("header", "true") // Use first line of all files as header
  .option("delimiter", ",")
  .option("inferSchema", "true") // Automatically infer data types
  .load(inputPath)
data1.toDF().registerTempTable("data2")

import org.apache.spark.sql.functions._
import org.joda.time.format.DateTimeFormat
inputPath: String = /Users/neha/Documents/Capstone/pollution*
data1: org.apache.spark.sql.DataFrame = [ozone: int, particulate_matter: int ... 6 more field
s]
warning: there was one deprecation warning; re-run with -deprecation for details

Took 23 sec. Last updated by anonymous at April 16 2017, 5:08:07 PM.
```

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```
%pyspark
import matplotlib
import matplotlib.pyplot as plt
import seaborn as sns

import StringIO
def show(p):
    img = StringIO.StringIO()
    p.savefig(img, format='svg')
    img.seek(0)
    print "%html " + img.buf
```

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```
%pyspark
DF = sqlContext.sql("select avg(ozone) as avg_ozone, avg(particulate_matter) as particulate,
, avg(nitrogen_dioxide) as nitrogen from data2 group by longitude,latitude")
data = DF.toPandas()
```

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FINISHED

Zeppelin

Graph2

Zeppelin

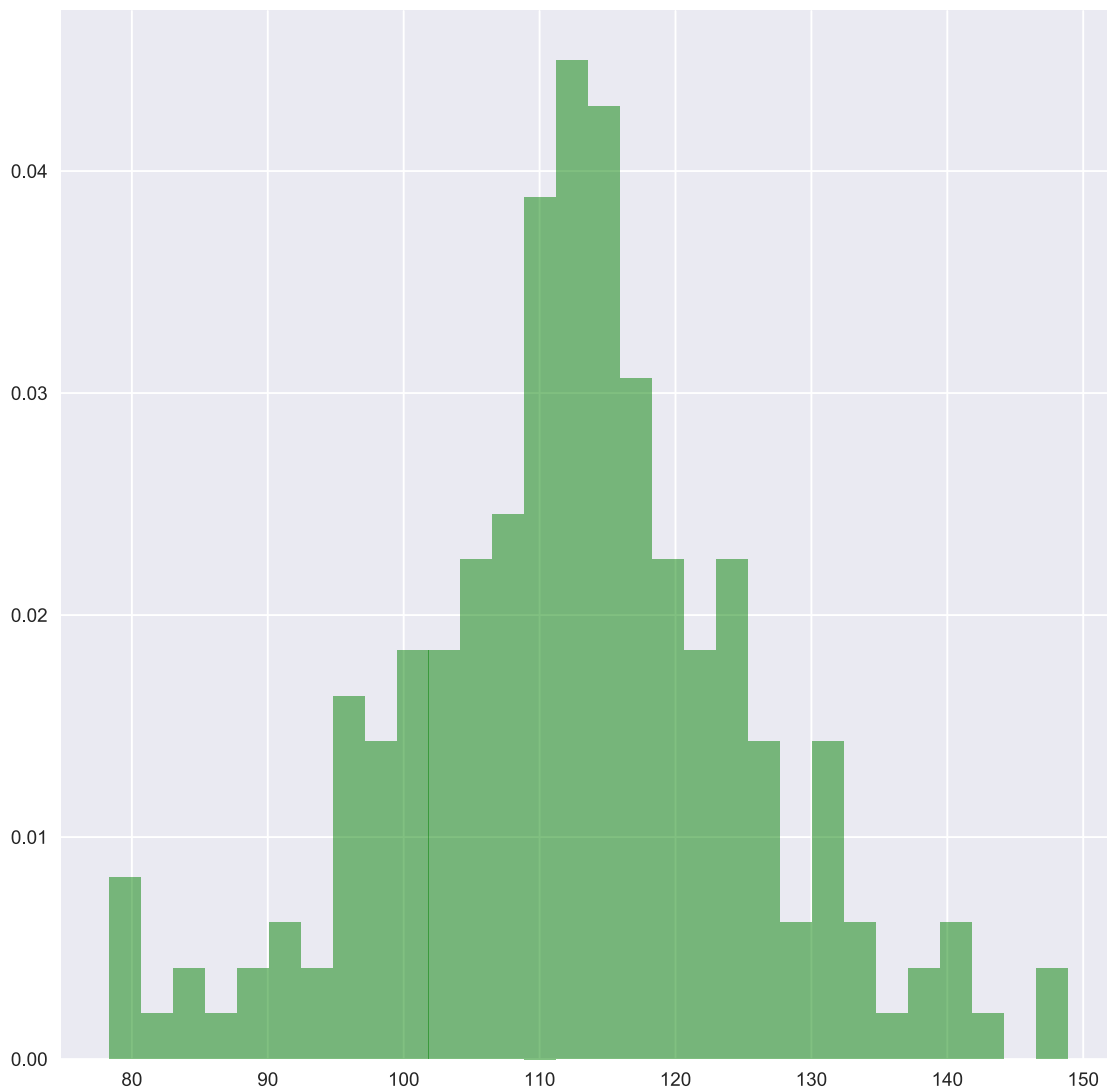
~~plt.clf()~~

```
num_bins = 30
```

graphviz - #include <graphviz.h> #define avg_ozone, num_lines

```
n, bins, patches = plt.hist('avg_ozone', num_bins, normed=1, facecolor='green', alpha=0.5, data=
```

```
show(plt)
```



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Graph2

```
%pyspark
```

```
import matplotlib.pyplot as plt1
```

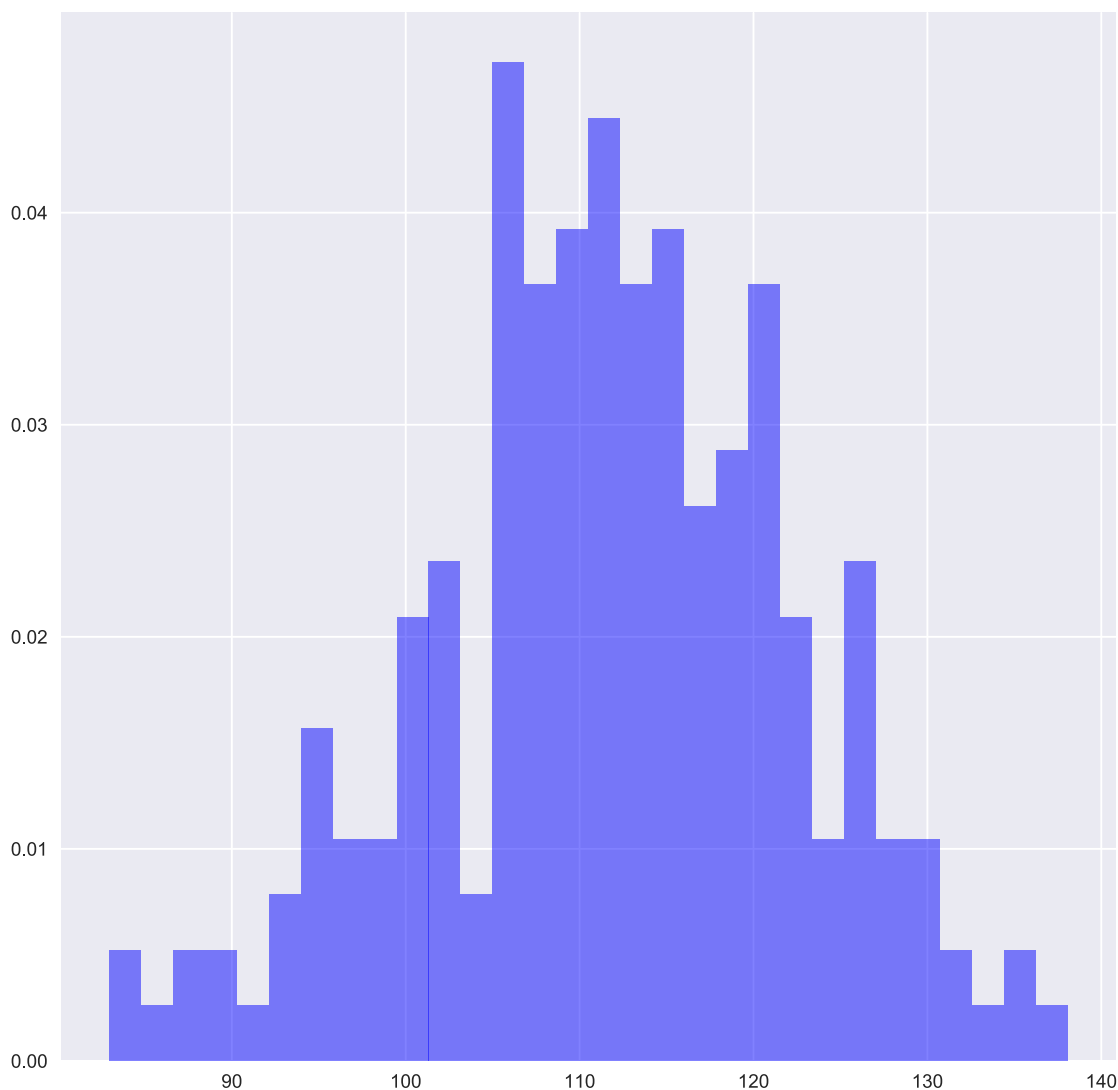
FINISHED ▶ 🔍 📖 ⚙️

```
n1+.clf()
```

Zeppelin

```
ii, bins, patches = plt.hist('particulate', num_bins, normed=1, facecolor='blue', alpha=0.5, d
show(plt)
```

Graph2



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```
%pyspark
```

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```
import matplotlib.pyplot as plt1
```

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```
num_bins = 30
```

```
#data.hist('monoxide',num_bins)
```

Graph2

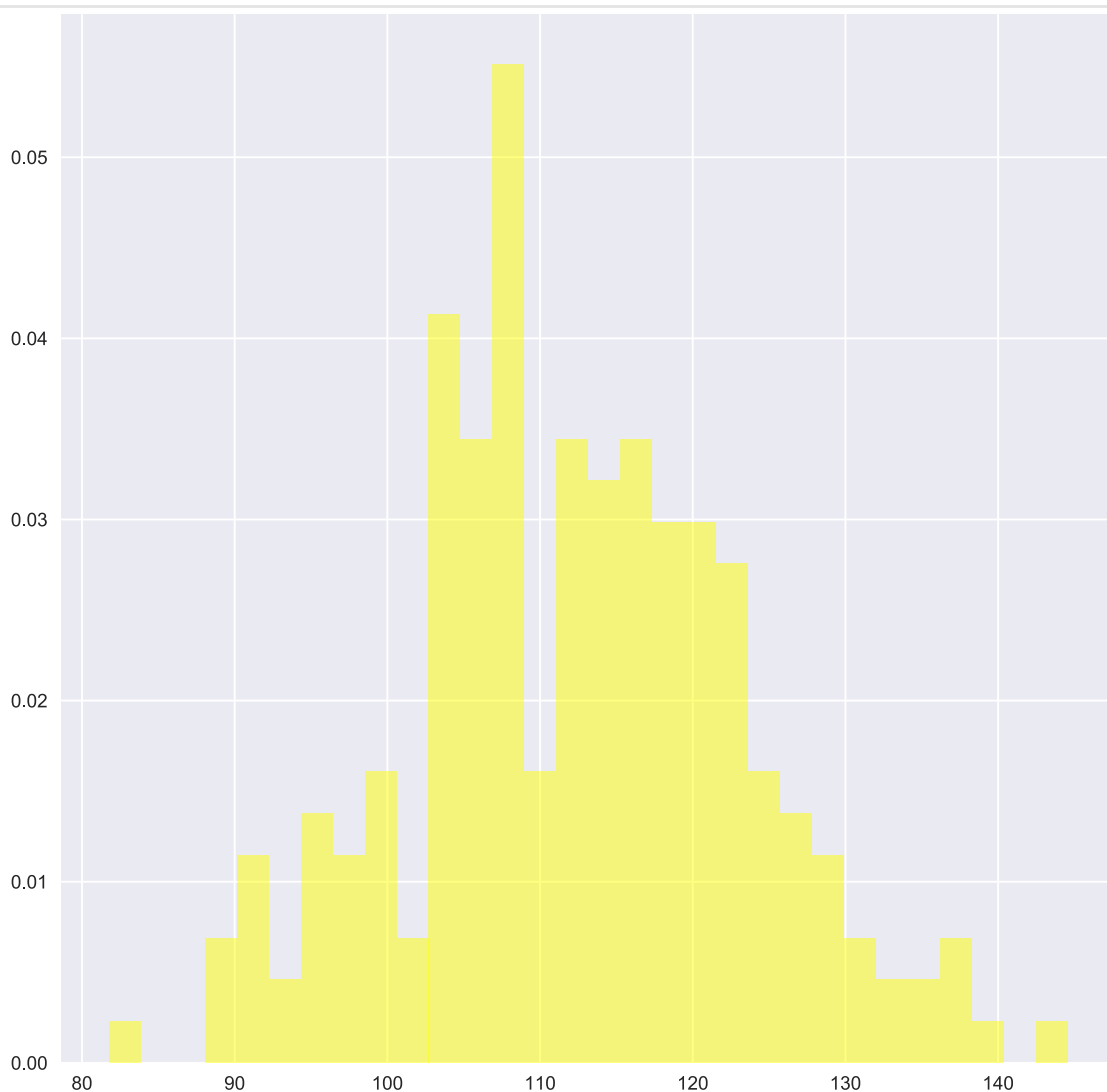
```
num_bins, patches = plt.hist('monoxide', num_bins, normed=1, facecolor='yellow', alpha=0.5, data=)
```

Zeppelin

Graph2



default ▾



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%pyspark

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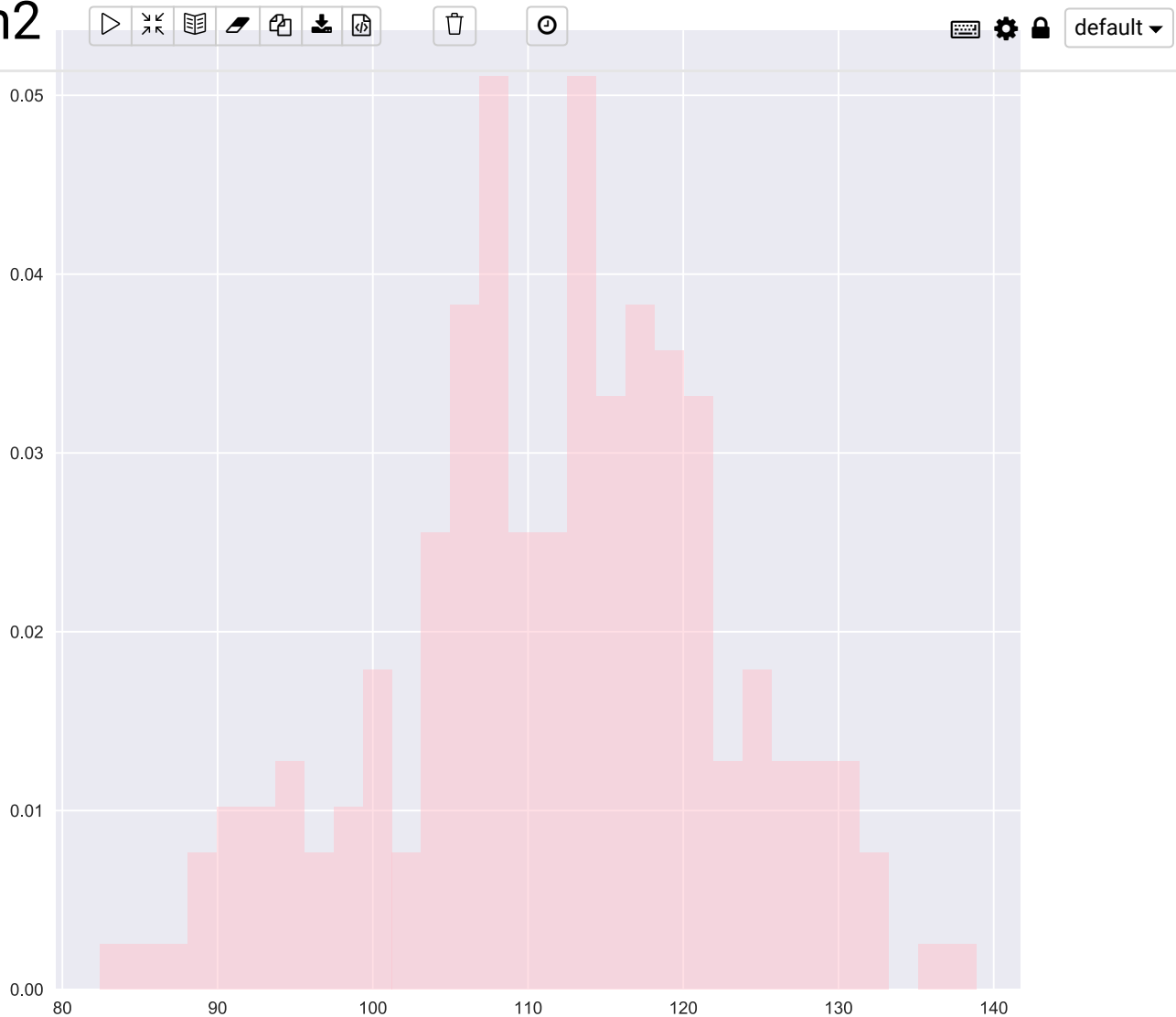
```
import matplotlib.pyplot as plt1
plt.clf()
num_bins = 30
#data.hist('sulfur', num_bins)
plt.hist('monoxide', num_bins, normed=1, facecolor='yellow', alpha=0.5, data =
show(plt)
```

Graph2



Zeppelin

Graph2



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%pyspark

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```
import matplotlib.pyplot as plt1
plt.clf()
num_bins = 30
#data.hist('nitrogen',num_bins)
n, bins, patches = plt.hist('nitrogen', num_bins, normed=1, facecolor='purple', alpha=0.5, data=
show(plt)
```

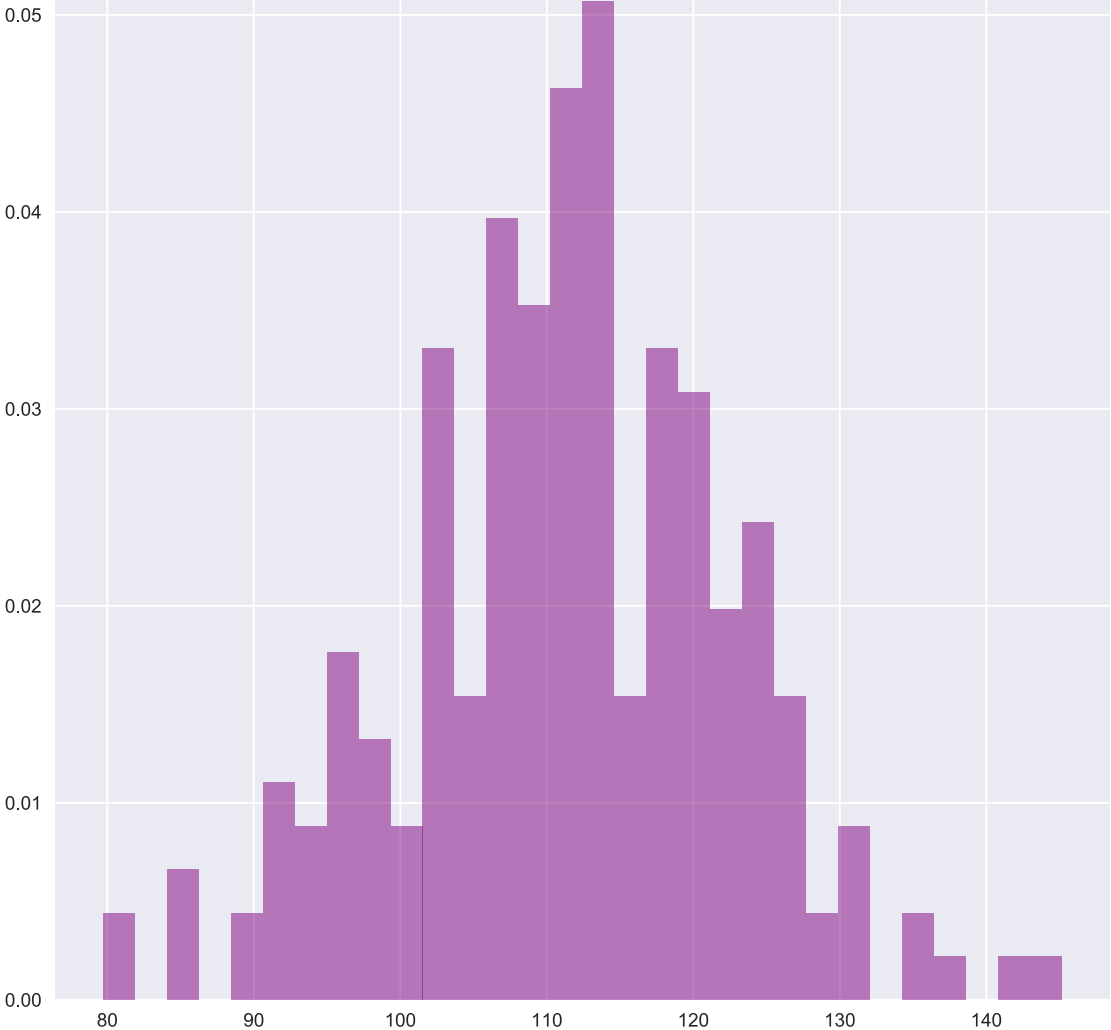


Zeppelin

Graph2



default ▾



Took 1 sec. Last updated by anonymous at April 16 2017, 7:52:18 PM.



READY ▶ 🔍 📖 ⚙