

# spark

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Khushi Sinha - 2021UCA1872

Esha Garg - 2021UCA1821

Amrita Soney - 2021UCA1831

```
[9]: pip install findspark
```

```
Collecting findspark
  Downloading findspark-2.0.1-py2.py3-none-any.whl (4.4 kB)
Installing collected packages: findspark
Successfully installed findspark-2.0.1
```

```
[ ]: pip install pyspark
```

```
Collecting pyspark
  Downloading pyspark-3.5.1.tar.gz (317.0 MB)
    317.0/317.0
MB 2.0 MB/s eta 0:00:00
  Preparing metadata (setup.py) ... done
Requirement already satisfied: py4j==0.10.9.7 in /usr/local/lib/python3.10/dist-packages (from pyspark) (0.10.9.7)
Building wheels for collected packages: pyspark
  Building wheel for pyspark (setup.py) ... done
  Created wheel for pyspark: filename=pyspark-3.5.1-py2.py3-none-any.whl
size=317488493
sha256=e5f354e7fbc2b7fe61a6e085773b1d83b272fe24a12a3cd03c0cc7ec448f5e0f
  Stored in directory: /root/.cache/pip/wheels/80/1d/60/2c256ed38dddce2fdd93be545214a63e02fbd8d74fb0b7f3a6
Successfully built pyspark
Installing collected packages: pyspark
Successfully installed pyspark-3.5.1
```

```
[ ]: import findspark
findspark.init()
import pyspark
from pyspark.sql import SparkSession
spark = SparkSession.builder.getOrCreate()
from pyspark.sql.functions import *
```

```
[ ]: path = ['/content/Ecommerce_Customers.csv']
dataset = spark.read.options(inferSchema= True, header = True).csv(path)
```

```
[ ]: dataset.printSchema()
```

```
root
 |-- Email: string (nullable = true)
 |-- Address: string (nullable = true)
 |-- Avatar: string (nullable = true)
 |-- Avg Session Length: double (nullable = true)
 |-- Time on App: double (nullable = true)
 |-- Time on Website: double (nullable = true)
 |-- Length of Membership: double (nullable = true)
 |-- Yearly Amount Spent: double (nullable = true)
```

```
[ ]: dataset.show(5)
```

```
+-----+-----+-----+-----+
|      Email|      Address|      Avatar|Avg Session Length|
Time on App|  Time on Website|Length of Membership|Yearly Amount Spent|
+-----+-----+-----+-----+
|mstephenson@ferna...|835 Frank TunnelW...|      Violet| 34.49726772511229|
12.65565114916675| 39.57766801952616|  4.0826206329529615|  587.9510539684005|
|  hduke@hotmail.com|4547 Archer Commo...|      DarkGreen|
31.92627202636016|11.109460728682564|37.268958868297744|    2.66403418213262|
392.2049334443264|
|  pallen@yahoo.com|24645 Valerie Uni...|
Bisque|33.000914755642675|11.330278057777512|37.110597442120856|
4.104543202376424| 487.54750486747207|
|riverarebecca@gma...|1414 David Throug...|      SaddleBrown|
34.30555662975554|13.717513665142507| 36.72128267790313|    3.120178782748092|
581.8523440352177|
|mstephens@davidso...|14023 Rodriguez P...|MediumAquaMarine|
33.33067252364639|12.795188551078114| 37.53665330059473|    4.446308318351434|
599.4060920457634|
+-----+-----+-----+-----+
only showing top 5 rows
```

```
[ ]: dataset.count()
```

```
[ ]: 500
```

```
[ ]: dataset.limit(5).toPandas()
```

```
[ ]:
      Email \
0      mstephenson@fernandez.com
1      hduke@hotmail.com
2      pallen@yahoo.com
3      riverarebecca@gmail.com
4      mstephens@davidson-herman.com
```

```

      Address      Avatar \
0      835 Frank TunnelWrightmouth, MI 82180-9605      Violet
1      4547 Archer CommonDiazchester, CA 06566-8576      DarkGreen
2      24645 Valerie Unions Suite 582Cobbborough, DC ...      Bisque
3      1414 David ThroughwayPort Jason, OH 22070-1220      SaddleBrown
4      14023 Rodriguez PassagePort Jacobville, PR 372...      MediumAquaMarine
```

```

      Avg Session Length  Time on App  Time on Website  Length of Membership \
0      34.497268      12.655651      39.577668      4.082621
1      31.926272      11.109461      37.268959      2.664034
2      33.000915      11.330278      37.110597      4.104543
3      34.305557      13.717514      36.721283      3.120179
4      33.330673      12.795189      37.536653      4.446308
```

```

      Yearly Amount Spent
0      587.951054
1      392.204933
2      487.547505
3      581.852344
4      599.406092
```

```
[ ]: dataset.orderBy('Yearly Amount Spent', ascending = False).limit(5).toPandas()
```

```
[ ]:
      Email \
0      kyang@diaz.org
1      asilva@yahoo.com
2      william82@gmail.com
3      jeffrey54@mcdonald-williams.com
4      rhonda01@gmail.com
```

```

      Address      Avatar \
0      223 Love Trail Suite 831Port Jeffrey, IN 46849      OliveDrab
1      USNV JohnsonFPO AP 19026      Wheat
2      11143 Park SquaresSamanthatown, UT 97073      SandyBrown
3      297 Francis ValleySouth Lindsey, NY 13669-5367      Gainsboro
4      939 Watson RunStaceyberg, VT 58376-0454      Orchid
```

```

      Avg Session Length  Time on App  Time on Website  Length of Membership \
```

0	34.374258	15.126994	37.157624	5.377594
1	34.603311	12.207298	33.913847	6.922689
2	33.256335	13.858062	37.780265	5.976768
3	34.967610	13.919494	37.952013	5.066697
4	34.385820	12.729720	36.232110	5.705941

	Yearly Amount Spent
0	765.518462
1	744.221867
2	725.584814
3	712.396327
4	708.935185

```
[ ]:
```

## LINEAR REGRESSION

```
[ ]: from pyspark.ml.regression import LinearRegression
```

```
[ ]: from pyspark.ml.linalg import Vectors
```

```
[ ]: from pyspark.ml.feature import VectorAssembler
```

```
fa = VectorAssembler(inputCols=["Time on App", "Time on Website", "Length of_Membership"], outputCol="Independent Features")

output = fa.transform(dataset)
```

```
[ ]: output.toPandas()
```

```
[ ]:
      Email \
0      mstephenson@fernandez.com
1      hduke@hotmail.com
2      pallen@yahoo.com
3      riverarebecca@gmail.com
4      mstephens@davidson-herman.com
..      ...
495    lewisjessica@craig-evans.com
496    katrina56@gmail.com
497    dale88@hotmail.com
498    cwilson@hotmail.com
499    hannahwilson@davidson.com
```

	Address	Avatar \
0	835 Frank TunnelWrightmouth, MI 82180-9605	Violet
1	4547 Archer CommonDiazchester, CA 06566-8576	DarkGreen
2	24645 Valerie Unions Suite 582Cobbborough, DC ...	Bisque

3	1414 David Throughway	Port Jason, OH 22070-1220	SaddleBrown
4	14023 Rodriguez Passage	Port Jacobville, PR 372...	MediumAquaMarine
..		...	...
495	4483 Jones Motorway Suite 872	Lake Jamiefurt, U...	Tan
496	172 Owen Divide Suite 497	West Richard, CA 19320	PaleVioletRed
497	0787 Andrews Ranch Apt. 633	South Chadburgh, TN...	Cornsilk
498	680 Jennifer Lodge Apt. 808	Brendacheater, TX 0...	Teal
499	49791 Rachel Heights Apt. 898	East Drewborough,...	DarkMagenta

	Avg Session Length	Time on App	Time on Website	Length of Membership \
0	34.497268	12.655651	39.577668	4.082621
1	31.926272	11.109461	37.268959	2.664034
2	33.000915	11.330278	37.110597	4.104543
3	34.305557	13.717514	36.721283	3.120179
4	33.330673	12.795189	37.536653	4.446308
..	...	...	...	...
495	33.237660	13.566160	36.417985	3.746573
496	34.702529	11.695736	37.190268	3.576526
497	32.646777	11.499409	38.332576	4.958264
498	33.322501	12.391423	36.840086	2.336485
499	33.715981	12.418808	35.771016	2.735160

	Yearly Amount Spent	Independent Features
0	587.951054	[12.65565114916675, 39.57766801952616, 4.08262...
1	392.204933	[11.109460728682564, 37.268958868297744, 2.664...
2	487.547505	[11.330278057777512, 37.110597442120856, 4.104...
3	581.852344	[13.717513665142507, 36.72128267790313, 3.1201...
4	599.406092	[12.795188551078114, 37.53665330059473, 4.4463...
..	...	...
495	573.847438	[13.566159613087606, 36.4179847963968, 3.74657...
496	529.049004	[11.695736293481328, 37.1902677104526, 3.57652...
497	551.620145	[11.499409061002085, 38.33257633196044, 4.9582...
498	456.469510	[12.391422991118318, 36.840085729767004, 2.336...
499	497.778642	[12.418808324753911, 35.771016191612965, 2.735...

[500 rows x 9 columns]

```
[ ]: output.select("Independent Features").show()
```

```
+-----+
|Independent Features|
+-----+
|[12.6556511491667...|
|[11.1094607286825...|
|[11.3302780577775...|
|[13.7175136651425...|
|[12.7951885510781...|
```

```
| [12.0269253397550...|
| [11.3663483097105...|
| [12.3519589730029...|
| [13.3862352756764...|
| [11.8141282949721...|
| [13.3389754476621...|
| [11.5847829995352...|
| [10.9612984001540...|
| [12.9592260916093...|
| [13.1487256920565...|
| [12.6366060520001...|
| [11.7338616908573...|
| [12.0131946940144...|
| [14.7153875441565...|
| [13.9895925558252...|
+-----+
only showing top 20 rows
```

```
[ ]: output.columns
```

```
[ ]: ['Email',
      'Address',
      'Avatar',
      'Avg Session Length',
      'Time on App',
      'Time on Website',
      'Length of Membership',
      'Yearly Amount Spent',
      'Independent Features']
```

```
[ ]: finalised_data = output.select("Independent Features", "Yearly Amount Spent")
      finalised_data.toPandas()
```

```
[ ]:
      Independent Features  Yearly Amount Spent
0    [12.65565114916675, 39.57766801952616, 4.08262...  587.951054
1    [11.109460728682564, 37.268958868297744, 2.664...  392.204933
2    [11.330278057777512, 37.110597442120856, 4.104...  487.547505
3    [13.717513665142507, 36.72128267790313, 3.1201...  581.852344
4    [12.795188551078114, 37.53665330059473, 4.4463...  599.406092
..                                     ...
495  [13.566159613087606, 36.4179847963968, 3.74657...  573.847438
496  [11.695736293481328, 37.1902677104526, 3.57652...  529.049004
497  [11.499409061002085, 38.33257633196044, 4.9582...  551.620145
498  [12.391422991118318, 36.840085729767004, 2.336...  456.469510
499  [12.418808324753911, 35.771016191612965, 2.735...  497.778642
```

[500 rows x 2 columns]

```
[ ]: train_data, test_data = finalised_data.randomSplit ([0.80,0.20])
regressor = LinearRegression(featuresCol='Independent Features',
    ↪labelCol='Yearly Amount Spent')
regressor=regressor.fit(train_data)
```

```
[ ]: regressor.coefficients
```

```
[ ]: DenseVector([37.2059, -0.9688, 63.9679])
```

```
[ ]: regressor.intercept
```

```
[ ]: -139.6779395731727
```

```
[ ]: pred_results=regressor.evaluate(test_data)
pred_results.predictions.show(40)
```

```
+-----+-----+-----+
|Independent Features|Yearly Amount Spent|      prediction|
+-----+-----+-----+
|[9.84612490873623...| 423.3083340974698|434.43525962132514|
|[9.98451439654646...| 451.4574468676027| 443.6192807151284|
|[10.0473147350711...| 392.99225591403086|424.25253022739696|
|[10.1631790600525...| 521.2407802357949| 507.5686537210232|
|[10.2903507650564...| 392.2852442462675|430.72445813491765|
|[10.6105365197074...| 461.7909590614097| 444.5668005985817|
|[10.7353629179850...| 476.1914133494556| 470.5867199832418|
|[10.8616041991289...| 465.8893127108669|484.46090854860086|
|[10.8755595481892...| 338.31986264152215| 350.7952575849977|
|[10.8869211809516...| 392.8103449837972| 431.7034521763949|
|[10.9332522785470...| 425.74509203105276|440.31862661316165|
|[10.9731620843173...| 404.82452887268687| 416.7724095496742|
|[10.9839767277944...| 436.28349814675136| 427.371379445599|
|[10.9857637851215...| 304.1355915788555| 293.7450223857894|
|[10.9942239193509...| 410.0696110599829|451.82277687216765|
|[11.0104821324000...| 424.7626355099111| 459.4340153854172|
|[11.0313583404091...| 413.29599918102974|432.47271904286674|
|[11.0378504136559...| 510.1598172791045|496.89669203259734|
|[11.0845840864218...| 562.0820453929382| 540.760619131504|
|[11.1094607286825...| 392.2049334443264| 407.9663194352918|
|[11.1133298974043...| 514.239520718957|494.65183820833147|
|[11.1208708671237...| 521.1953105318003| 496.0751786358544|
|[11.1875389108786...| 451.57568515949305| 465.0633409254169|
|[11.2265456635106...| 446.41867337013565|483.71409586074094|
|[11.2359689542525...| 508.7357409506604| 492.2314406434691|
|[11.2365067587540...| 591.4377355684502| 578.0198261231659|
```

```
|[11.2682592305740...| 385.152337987975|414.48933559349734|
|[11.3654920255161...| 534.7057438060227| 540.9996022163903|
|[11.3780870877733...| 528.2238093680072| 488.6590998946182|
|[11.3792571824002...| 574.7472196620896|505.96047251814446|
|[11.4096446163656...| 486.0834255029927| 497.8782425069969|
|[11.4355338743003...| 528.9336185650203| 561.1244096545737|
|[11.5149490665748...| 549.1315732872171| 551.0491532145998|
|[11.5462757595103...| 448.34042501104767|463.61612120062443|
|[11.5487614397767...| 532.7174856761749| 557.9824483302145|
|[11.5503001108659...| 551.0230017027826| 522.9952149913614|
|[11.5681163420984...| 398.16346853365195| 413.0793931323361|
|[11.5847829995352...| 522.3374046069357| 492.9400166320065|
|[11.6089970708754...| 510.4013884525048| 458.0727535096704|
|[11.6209965075752...| 560.4437921717631| 547.1455720432217|
+-----+-----+-----+
only showing top 40 rows
```

```
[ ]:
```

## PERFORMANCE ANALYSIS

```
[ ]: trainingSummary = regressor.summary
print ("Root Mean Squared Error on training data: %f" % trainingSummary.
      ↪rootMeanSquaredError)
print("R Squared (R) on training data: %f" % trainingSummary.r2)
```

```
Root Mean Squared Error on training data: 27.635637
R Squared (R) on training data: 0.881861
```

```
[ ]: train_data.describe() . show ()
```

```
+-----+-----+
|summary|Yearly Amount Spent|
+-----+-----+
| count|          399|
|  mean| 499.71002370104907|
| stddev| 80.50393961293729|
|   min| 256.67058229005585|
|   max| 765.5184619388373|
+-----+-----+
```

```
[ ]: lr_predictions = regressor.transform(test_data)
lr_predictions.select ("prediction", "Yearly Amount Spent", "Independent_
      ↪features"). show(5)
from pyspark.ml.evaluation import RegressionEvaluator
```



```
lr_evaluator = RegressionEvaluator(predictionCol = "prediction",
    labelCol="Yearly Amount Spent", metricName = "r2")
r2_test = lr_evaluator.evaluate(lr_predictions)
print("R Squared (R2) on test data= %g" % r2_test)
```

```
+-----+-----+-----+
|      prediction|Yearly Amount Spent|Independent features|
+-----+-----+-----+
|434.43525962132514| 423.3083340974698|[9.84612490873623...|
| 443.6192807151284| 451.4574468676027|[9.98451439654646...|
|424.25253022739696| 392.99225591403086|[10.0473147350711...|
| 507.5686537210232| 521.2407802357949|[10.1631790600525...|
|430.72445813491765| 392.2852442462675|[10.2903507650564...|
+-----+-----+-----+
only showing top 5 rows
```

R Squared (R2) on test data= 0.875982

```
[ ]: dataset.show(5, False)
```

```
+-----+-----+-----+-----+
+-----+-----+-----+-----+
+-----+-----+-----+-----+
|Email                    |Address
|Avatar                  |Avg Session Length|Time on App        |Time on Website
|Length of Membership|Yearly Amount Spent|
+-----+-----+-----+-----+
+-----+-----+-----+-----+
|mstephenson@fernandez.com |835 Frank TunnelWrightmouth, MI 82180-9605
|Violet                  |34.49726772511229 |12.65565114916675 |39.57766801952616
|4.0826206329529615    |587.9510539684005 |
|hduke@hotmail.com      |4547 Archer CommonDiazchester, CA 06566-8576
|DarkGreen              |31.92627202636016
|11.109460728682564|37.268958868297744|2.66403418213262    |392.2049334443264 |
|pallen@yahoo.com      |24645 Valerie Unions Suite 582Cobbborough, DC
99414-7564|Bisque
|33.000914755642675|11.330278057777512|37.110597442120856|4.104543202376424
|487.54750486747207 |
|riverarebecca@gmail.com |1414 David ThroughwayPort Jason, OH 22070-1220
|SaddleBrown           |34.30555662975554 |13.717513665142507|36.72128267790313
|3.120178782748092    |581.8523440352177 |
|mstephens@davidson-herman.com|14023 Rodriguez PassagePort Jacobville, PR
37242-1057 |MediumAquaMarine|33.33067252364639
|12.795188551078114|37.53665330059473 |4.446308318351434    |599.4060920457634 |
+-----+-----+-----+-----+
+-----+-----+-----+-----+
```

--+-----+-----+  
only showing top 5 rows

RDD

```
[ ]: rddL = spark.sparkContext.textFile('/content/Ecommerce_Customers.csv')  
rddL.first()
```

```
[ ]: 'Email,Address,Avatar,Avg Session Length,Time on App,Time on Website,Length of  
Membership,Yearly Amount Spent'
```

```
[ ]: rddL_header = rddL.first ()
```

```
[ ]: rddL_remain = rddL.filter (lambda line: line!=rddL_header)  
print(rddL_remain.first())
```

```
mstephenson@fernandez.com,"835 Frank TunnelWrightmouth, MI 82180-9605",Violet,34  
.49726772511229,12.65565114916675,39.57766801952616,4.0826206329529615,587.95105  
39684005
```

```
[ ]: rddL_remain.map(lambda line: line.split(";")).count ()
```

```
[ ]: 500
```

```
[ ]: rddL2 = rddL.map(lambda line: (line.split(",")[-1],  
    line.split(",")[0]) )  
rddL2.countByKey()
```

```
[ ]: defaultdict(int,  
    {'Yearly Amount Spent': 1,  
    '587.9510539684005': 1,  
    '392.2049334443264': 1,  
    '487.54750486747207': 1,  
    '581.8523440352177': 1,  
    '599.4060920457634': 1,  
    '637.102447915074': 1,  
    '521.5721747578274': 1,  
    '549.9041461052942': 1,  
    '570.2004089636196': 1,  
    '427.1993848953282': 1,  
    '492.6060127179966': 1,  
    '522.3374046069357': 1,  
    '408.6403510726275': 1,  
    '573.4158673313865': 1,  
    '470.4527333009554': 1,  
    '461.7807421962299': 1,  
    '457.84769594494855': 1,
```

'407.70454754954415': 1,  
'452.3156754800354': 1,  
'605.061038804892': 1,  
'534.7057438060227': 1,  
'419.93877483917913': 1,  
'436.51560572936256': 1,  
'519.3409891307888': 1,  
'700.9170916173961': 1,  
'423.17999168059777': 1,  
'619.8956398616367': 1,  
'486.83893476506273': 1,  
'529.537665336851': 1,  
'554.7220838330761': 1,  
'497.5866713004408': 1,  
'447.6879065360587': 1,  
'588.7126055095755': 1,  
'491.07322367951963': 1,  
'507.4418323396168': 1,  
'521.8835731664783': 1,  
'347.77692663187264': 1,  
'490.73863214395465': 1,  
'478.1703340540876': 1,  
'537.8461952695957': 1,  
'532.7517875818364': 1,  
'501.87443028426947': 1,  
'591.1971781805905': 1,  
'547.2443434159983': 1,  
'448.22982918655': 1,  
'549.860590464497': 1,  
'593.9150029682891': 1,  
'563.6728733601083': 1,  
'479.73194908594513': 1,  
'416.35835357990084': 1,  
'725.5848140556806': 1,  
'442.667251738628': 1,  
'384.62657156940537': 1,  
'451.4574468676027': 1,  
'522.40414125956': 1,  
'483.67330801904563': 1,  
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 'youngbarbara@yahoo.com,"019 Elliott Tunnel Suite 190Nicholsbury, WV 60804-4440  
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 'william25@mcconnell.com,"9495 Mary Fall Apt. 777Glassport, ND 17957-5596",Teal  
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 'ijones@schaefer-carr.net,"657 Judith CrossroadHancockchester, VI 75658-5788",L  
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'heatherhall@yahoo.com,"8522 Regina Port Suite 782Port Kaitlin, TX 50501-7264",MediumSlateBlue,32.33598963740772,13.007819424388568,37.85177916943607,2.9963645262685388,486.83893476506273',

'tinasmith@martinez.info,"40000 Ann Port Suite 474Youngberg, MS 03651",LemonChiffon,33.110205057717764,11.982044994015613,35.293087754360506,3.923488745527437,529.537665336851',

'chasejennifer@hotmail.com,"9507 Robert Prairie Apt. 601East Crystalview, SC 56814",DarkOrchid,33.10543794246846,11.9650200029979,37.27781174207212,4.742577519573316,554.7220838330761',

'jenniferbarnett@gmail.com,"0772 Michael Isle Suite 617Meyerstown, WA 45449-6768",SeaGreen,33.24190043446127,12.305417813429447,36.16364817104465,3.0623681453116887,497.5866713004408',

'jared39@hotmail.com,"739 David Isle Suite 818Chandlertown, DC 34587",SteelBlue,33.46105629551836,10.869163814130363,35.62244242064545,3.471413452477678,447.6879065360587',

'briancarlson@page-fleming.com,USCGC GillFPD AA 26496,DarkMagenta,32.175501237949376,13.387492105579696,35.69417498569782,4.343062915388998,588.7126055095755',

'joshuaodom@gmail.com,"5277 Patel BrookEast Audrey, NJ 19075",DarkGoldenRod,32.72836000313375,13.1045072428758,38.87804050675985,2.8200972339734696,491.07322367951963',

'vickie90@lee-wilson.com,"9135 Rodriguez DamRamirezberg, MS 77223",DarkSeaGreen,32.82030994541536,11.634893252550464,35.368626325363024,4.1245852967146535,507.4418323396168',

'duane56@hotmail.com,"24373 Mcgee Drive Apt. 990New Mariahaven, NH 14470",Gainsboro,33.61603789276768,11.936386499892285,38.76864099802668,3.6492861577147018,521.8835731664783',

'enash@gmail.com,"997 Campbell Flat Suite 970East Amanda, PW 22048",HotPink,31.721652360509037,11.75502370305383,36.7657223578584,1.8473704233395083,347.77692663187264',

'sandraharrison@bailey-gordon.net,"7835 Rogers RoadsEast Amberhaven, MI 70835-2286",LightSeaGreen,32.8653271748764,11.984417523634924,37.0443614002997,3.4523885826307272,490.73863214395465',

'cunninghamwilliam@hotmail.com,"4589 Dan FordsBeasleyburgh, ME 96590-8272",HoneyDew,32.74936818112046,9.954975969174418,37.38831486719822,4.650491269094463,478.1703340540876',

'teresaallen@hill-leach.info,"1958 Robert Bridge Apt. 250Malloryland, ID 03393-5336",WhiteSmoke,32.567230480275114,12.489013215743663,36.371479814068536,4.22243622534277,537.8461952695957',

'rhonda96@little.org,"2977 Perez RowLake Jack, TN 45336-9436",GhostWhite,32.07054622092545,11.733106220383403,37.534291011121276,4.6712754609062515,532.7517875818364',

'lisacabrera@yahoo.com,"9801 Thomas Pike Suite 058Brandishire, AK 88122-1314",DarkSlateBlue,33.01954798572344,10.634561317920276,37.49669014561275,4.646119976606155,501.87443028426947',

'jasonrichardson@elliott.com,"18372 Matthew Fork Suite 705North Matthewmouth, KY 99737",Chocolate,33.79203907501622,12.507525374016035,37.14286198458455,4.214495086037866,591.1971781805905',

'hoovernicole@dorsey.net,"69403 Hernandez KnollsMarciashire, DE 36417-5667",HoneyDew,32.89398062181101,11.52987820576495,36.888086054199256,4.643258549800133,547.2443434159983',

'christopher20@gmail.com,USNV FullerFPO AE 32122-5711,Snow,32.04448612744043,13.414934735851688,36.11243501077792,2.2586863869468434,448.22982918655',

'brianwilson@yahoo.com,"448 Stewart DivideNew Ashleyfort, FM 84050",BurlyWood,34.55576799465749,12.170525424959395,39.13109673366661,3.6631054912838534,549.860590464497',

'gonzaleskatie@gmail.com,"70129 Darrell SpringThomasmouth, HI 39319-2739",Moccasin,34.56455770619167,13.146551432907062,37.335445894325716,3.8768751769237673,593.9150029682891',

'lsmith@chung.com,"412 Jackson RiverKleinburgh, KS 52039-7404",BlueViolet,32.726784597863976,12.988510147185293,36.46200325853961,4.113226122724209,563.6728733601083',

'dongarcia@hotmail.com,"546 Benjamin Lights Suite 421Romerofurt, NC 43746-4501",MediumBlue,33.117218732994786,11.864126358942508,36.58272776540628,3.2025311992107337,479.73194908594513',

'kimberly46@garcia-nelson.biz,"4066 Gonzalez Dam Apt. 277West Jessica, TN 36880",GreenYellow,31.661049822746076,11.398064190096813,36.59445670006827,3.1983992716849063,416.35835357990084',

'william82@gmail.com,"11143 Park SquaresSamanthatown, UT 97073",SandyBrown,33.25633546983111,13.85806246213124,37.78026468722867,5.97676812602,725.5848140556806',

'brenda82@maldonado-gonzalez.net,"645 Elizabeth PassWilliamview, MS 51544",MediumVioletRed,33.90022441401576,10.956790967791653,37.266878259420906,2.952668957921736,442.667251738628',

'josephgould@west.info,"861 Annette Stream Suite 771North Miguel, CA 33824-1610",DarkBlue,34.18777482695728,10.320116255059194,37.45340510152358,2.0948917061051766,384.62657156940537',

'wbrady@yahoo.com,"044 Riggs ExpresswayLake Stevenchester, AL 22283",SandyBrown,33.762069239131385,9.98451439654646,35.93344930095986,3.8554716845641805,451.4574468676027',

'smithtracey@mcgee.com,"PSC 4508, Box 7961APO AA 55271-2375",DarkOliveGreen,34.390163664343326,12.645195140843521,38.46832110587932,2.874596910303952,522.40414125956',

'amberchase@fowler.info,"1867 Gregory Isle Suite 022Port Tammy, LA 52305-9696",GreenYellow,33.92529660119954,11.588655423353044,35.25224202243303,3.3920504890738385,483.67330801904563',

'gregoryholmes@hotmail.com,"2891 Martin Plain Suite 197Melaniestad, NE 65650-8529",DarkSalmon,32.68822929602445,13.761532847115614,39.252930950406224,2.995761182613056,520.8987944502368',

'jeffreydawson@gmail.com,"9944 Trevor ExpresswayRobinsonstad, OR 34630-1840",DarkSeaGreen,34.3018702154015,10.56829468563276,36.17312563197192,3.3152247539154036,453.16950235469744',

'rjohns@gmail.com,"264 Derek Dam Apt. 680West Danielle, SD 91517-8611",DeepPink,32.843930222655175,11.832286222863626,36.81401056250368,3.4719191365417483,496.650708068581',



'john85@martin-morgan.com,USNV ReeseFPO AA 73568-0730,Olive,33.75499472831927,12.064156632199321,37.27122169250193,3.9705556280753487,547.3651405940458',

'vcoleman@yahoo.com,"7761 Hughes Curve Apt. 880Rodriguezberg, MN 96206-5317",SkyBlue,33.879784289702826,12.495591602384836,38.05260975257308,4.639320331857263,616.8515229667128',

'floresarthur@yahoo.com,"12612 Johnson Skyway Suite 764Jessicaville, CT 14968-6590",Magenta,33.07653560709715,9.607314687519166,36.49399254673739,5.0812100924911086,507.21256900067846',

'ryan36@gmail.com,"5379 Rhonda Prairie Apt. 696Brownland, WA 87027",DarkTurquoise,32.227299136367215,13.728627177429864,37.99702800956553,4.802630630523376,613.5993233689068',

'chris67@ryan.biz,"716 Bush Greens Apt. 098Trevorton, MA 17817-8000",Silver,32.789772618310714,11.670065919118976,37.4087484767376,3.414688422504897,483.15972078451705',

'katie25@gmail.com,"6861 Lopez Fork Apt. 114South Jamiechester, DE 63993",SpringGreen,32.77260992960089,13.276313008175375,36.60077705432864,3.462298847460372,540.2634004105403',

'kyang@diaz.org,"223 Love Trail Suite 831Port Jeffrey, IN 46849",OliveDrab,34.374258045247466,15.126994288792467,37.157624094065255,5.377593583586979,765.5184619388373',

'tadams@contreras.info,"049 Matthew TerraceLake Matthew, MS 20210",Aqua,33.0787172146689,12.695789749023144,35.358444307206696,4.0017863457980845,553.6015346844503',

'craigcastro@burgess.com,"65407 Warner Forges Suite 071New Lori, AZ 30132-2395",OrangeRed,32.80522040097184,11.835476087614285,36.375066106372905,3.4395905595500764,469.3108614953106',

'ellen24@anthony.com,"PSC 3408, Box 3353APO AE 05113-1257",LimeGreen,32.43075793005128,11.306232344673575,37.68040322813719,2.7795207192736093,408.6201878298378',

'davisrobert@hicks-smith.com,"95967 Pitts BurgsWest Sarah, MH 27817-5147",SkyBlue,32.179099972602344,11.187538910878676,40.005181638101895,3.5526497674265176,451.57568515949305',

'walkerlaura@peterson-yates.com,"89154 Jones Stream Suite 311East Katie, NC 72742-1516",LightGreen,33.15417578832186,11.887494133971662,36.265000697022046,2.6022871120328714,444.96655165329264',

'marc54@hotmail.com,Unit 6174 Box 1949DPO AP 27478,SandyBrown,34.33589583979252,12.2289347111239,36.1571911511149,4.694322274442824,595.8228366992038',

'gregoryrussell@yahoo.com,"55436 Devon PlainWest Kendraberg, HI 18826-3623",Teal,32.38625185558597,10.674653472691904,38.00658317947767,3.4015223445155094,418.1500810968496',

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'langmatthew@hotmail.com,"606 Perez DrivesMaryside, CO 94387-5877",DimGray,32.0

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'kimberlyfrederick@gmail.com,"71299 Jessica ShoalsEast Mark, IA 48085-1070",DeepSkyBlue,33.167136876950536,11.928842093866267,36.914633311440866,3.1649439952851135,475.759067788328',

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'stevenanderson@yahoo.com,"5401 Holt Corner Apt. 195Hannahstad, NC 86693-3595",LightGreen,34.655485679579876,10.338072695038539,36.15725594420065,4.3966519010970835,533.5149352552407',

'richard16@boyer-pratt.com,"4568 Jeffrey Lane Apt. 512South Jason, WV 78116-0966",LightSteelBlue,31.80930031667919,11.63466821794247,36.182539282355286,5.1133194748706225,536.7718993628412',

'hyoung@jones.info,"73469 Baker Forest Apt. 550Allenbury, TX 63791",Cornsilk,33.87777930012253,12.517666287393075,37.151920660971435,2.669941624279581,487.37930601702914',

'erik46@hotmail.com,"20711 Martin Harbors Apt. 582New Justinborough, AK 40834-2664",LemonChiffon,34.44787143648077,10.607723870859086,36.819095513184706,3.3664637433729325,473.7289665129948',

'rojasmichael@wagner-thomas.com,"7602 Scott Plaza Apt. 158Lake Amberland, VI 10516-3276",DarkKhaki,31.95630056052337,12.8288933950187,36.951616684246815,4.571213023779052,547.1259317471988',

'lance88@briggs.com,"16001 Wilkins Island Suite 852Jonathanfort, AL 88541-7817",FireBrick,32.605583641570504,12.068816079691766,36.1050004999139,3.917451119136939,505.11334353985785',

'anthony09@hotmail.com,"5118 Madden Views Apt. 738North Barryport, AS 28731-2270",LightSeaGreen,32.491446603122874,12.530357373542884,37.87521910003027,2.4761390505964114,449.0703194428044',

'audreyjohnson@rosales.com,USCGC NicholsonFPO AE 43987-0470,SlateGray,33.616018552595435,13.516284296962846,36.77312349371806,4.125584363255396,611.0000251040717',

'beth76@yahoo.com,"4522 Paul Heights Suite 851Adamsland, RI 08981",Crimson,33.47160052695171,11.662263431208274,36.05024078202619,3.9972553776226674,515.8288148548279',

'larrywest@davis.com,"21918 Gail GlensBarbershire, SD 45790-8387",MidnightBlue,33.710653059122684,13.664747875183544,37.72438615760942,1.3626740800013843,439.07476674164496',

'raylopez@hotmail.com,"3600 Amber Plains Suite 002North Jamesburgh, VA 07917",DarkGoldenRod,32.19772379742183,11.83023109487895,36.63385670229112,4.193324635532072,514.0889577465721',

'middletonrenee@gmail.com,"71757 David Freeway Apt. 851West Carriefurt, NC 27106-3364",DarkCyan,32.46121244511541,13.291143045352884,38.633625651583536,3.871003400176416,543.340166256701',

'grichardson@ryan.info,"79139 Boone CommonStewartstad, DE 63633-1812",SteelBlue,33.790387206952126,11.942340869536073,38.063413586838934,4.081802694781509,521.1429518103512',

'esmith@gmail.com,USS JohnsonFPO AE 35617-5384,OldLace,34.18382052058911,13.349912944366533,37.827394227862136,4.252006105620936,614.7153338263417',

'michael53@munoz.com,USNS MitchellFPO AP 92946,MediumBlue,32.288666909138946,12.020112091208748,39.07440021133697,3.911708668370663,507.39006178986654',

'jacqueline46@mcdonald-smith.biz,"3794 Michael Forest Apt. 750New Stephenberg, MD 61004-0181",Gray,33.826352009072124,12.084091730811036,35.89035795567322,3.021671821710012,495.2994425473087',

'briannasantana@gmail.com,"88978 Noble CrestNorth Rosemouth, FM 53484-6689",LightPink,32.49839307472945,13.410759184940549,35.990488954758504,3.1846186616208865,518.0645579840107',

'mark52@yahoo.com,"82227 Farmer Throughway Suite 266Leeborough, WV 35324",BlanchAlmond,31.88540629991176,11.28193107410364,37.385317552778375,2.877224878259828,390.1032729724755',

'acampbell@sanchez-velasquez.info,"5791 Jessica CoveMckinneyborough, OK 64460-7536",Wheat,32.425697279750864,11.448901535513794,37.580190429177314,2.5869679851624765,420.73767324463716',

'qgarcia@williams.com,"465 Kenneth Common Apt. 192North Tracy, WI 36024-8978",Aqua,33.43782956230187,12.595420346380534,36.26203180012439,2.9696402266327597,492.1050523891852',

'jenniferking@hess.net,"06939 Jones NeckMariaview, VT 87641",BlueViolet,31.389585480664397,10.994223919350974,38.074452419704535,3.4288599039280125,410.0696110599829',

'taylor91@hotmail.com,"3132 Willie HarborKaylafurt, FL 01107",CadetBlue,33.46869994900622,13.085505760060856,35.84582711383271,2.926940235492512,497.51368332936767',

'afry@ford.biz,"399 Jeremy Skyway Suite 377North Keithville, IL 55074",PaleTurquoise,32.291756100263015,12.190474287309025,36.15246208860067,3.781823039343296,494.55186108657256',

'amandadean@gmail.com,"66880 Mckinney HillsMatthewchester, MH 88386",DimGray,32

.063774620313694,10.719149740628396,37.71250863884946,3.004742535925674,378.3309069068038',

'brenda68@hotmail.com,"0377 Reed Via Apt. 169Alexandershire, MO 43498",Moccasin,33.15569970295208,12.931550271647987,38.16643555663392,3.854473855602962,570.451725912857',

'bakerdrew@gmail.com,"39637 Griffin Plain Suite 691New Deborahview, MP 73870-3773",Chartreuse,33.35687434475742,13.452128959435642,38.5030088492416,3.3188222789308934,549.0082269346927',

'connorlambert@yahoo.com,"931 Andrews HeightsSouth Shelley, NV 21850",Khaki,31.85307480174657,12.149375491578276,37.325334223819354,3.361814624383144,459.285123462352',

'tknapp@yahoo.com,"15810 Karl PlainDavidville, TX 64072",MediumSpringGreen,32.01230076824544,12.178331333996287,37.71598617762173,3.722561172893833,492.94505306595823',

'garcialisa@yahoo.com,"46079 Gonzalez LoafWilliamside, PA 72265",LemonChiffon,32.388451625505326,11.010482132400076,38.41504158153833,3.5435470501829984,424.7626355099111',

'josephallen@hotmail.com,"3144 Jamie RestMaxwellville, NC 93749-1190",PeachPuff,32.65318145878372,11.60253219348616,37.309688770879504,2.7894615163747076,422.4267758765091',

'hailey18@yahoo.com,"08079 Thompson VillageNorth Lukeborough, AL 16825",Lime,32.93133644189654,12.732211588456625,35.600820549110864,5.4859767341605234,642.1015787311585',

'whess@hotmail.com,"29282 Alexander StreetSouth Andrewmouth, MS 22041",Tomato,33.23560650069385,11.223368888365105,37.692300861282355,2.59418972057778,413.3717831104521',

'josesims@hunter.com,"8830 Debra Loaf Apt. 341Drakeville, ME 22340",SlateBlue,33.92579489547877,12.01102187657459,36.701052315547926,2.7534241687581194,479.23109291159307',

'dtaylor@webb.com,"18219 Jackson WellFosterton, MP 85302",Orange,33.05926409135838,11.725910097840956,35.9990993016087,5.004820577490747,593.0772413447513',

'briangonzales@gmail.com,"572 Michelle Motorway Apt. 889New Craig, ND 17250",Fuchsia,32.401731827354666,12.08930957243735,38.3099078951232,3.8733375687432523,506.5473070543517',

'jared99@yahoo.com,"PSC 0811, Box 7054APO AA 91691",GoldenRod,33.88994100692418,13.068638584182436,37.540520355122574,3.79872531905254,571.3074948754644',

'qchristian@martinez-allen.com,"26737 Brooks RoadsVincentstad, VA 93089",GreenYellow,34.569381218693444,12.85499036656409,35.00748225744693,3.2927976625756474,576.311177371677',

'ngarcia@donaldson.info,"662 Wells Stravenue Apt. 578South Kristaview, DC 49423-2452",ForestGreen,33.70160519868888,11.564022368065539,37.67321036564864,4.716104987209577,576.8025473995871',

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'thomasgeorge@gonzalez-grant.com,"93306 Donald GreensNew Christopherbury, SC 59 447",FloralWhite,31.066218161637593,11.735094549013706,36.59937399114725,3.95889 22643660966,448.93329320767435',

'solischristina@gmail.com,"43102 Russo View Suite 717Hollyport, SC 15344",Slate Blue,31.85125312860837,12.41896198100501,35.97765170714366,3.251741770306888,472 .9922466667984',

'jacksonboone@rubio.com,"973 Marc PortsBrownstad, IN 48786-6700",Sienna,32.6092 82635640405,10.537307537840883,35.73055240228659,3.914384667246393,463.923512990 3258',

'kaitlyn78@chang.com,"978 Bean SquareDeanburgh, OR 95149",LimeGreen,32.11511906 601424,11.919242397939177,39.29404346247573,1.4435150746515455,350.0582001638451 3',

'francisgeorge@thomas.org,"27563 Vincent LakeAllenchester, DC 22159",Teal,33.92 4624809512075,11.911415556879856,38.27470219571764,2.910037916541069,460.0612773 9124327',

'linda90@yoder.org,"979 Alison Motorway Apt. 676North Frank, HI 55870-2651",Whi teSmoke,33.477190403003306,12.488067002053029,36.51838358912681,3.34557097584224 34,505.77114032295646',

'david79@lopez-montes.com,"969 William ManorWest Sherry, MA 66282-2258",Purple, 32.116400120928155,12.380694979552985,37.23200330765404,3.0895277822700096,463.4 84995404266',

'micheleblanchard@lopez-greene.com,"555 Hunt Track Suite 307South Kristi, PA 73 709",SlateGray,32.255901204449785,10.480506832694497,37.33866962178549,4.5141224 41132637,479.73193764530447',

'pmercado@rodriguez.com,"811 Maria RunSanchezville, MI 04953",LightPink,32.6923 9221858063,12.296517680733736,36.951555210501326,1.8258846690261428,424.18549428 888633',

'james30@carter.biz,"3604 Richard Junctions Suite 448Brownburgh, CO 64856-8238" ,LimeGreen,32.384732659005124,10.86160419912899,36.584437621758106,3.99365651252 5085,465.8893127108669',

'parkerkayla@miles.com,"170 Andrew MewsNorth Susan, NM 85338-2426",DarkSlateBlu e,34.3387293850918,10.716355140061573,38.3072040068692,2.6521583048512407,426.77 52159856604',

'alicia85@lee.com,"14220 Carla Flat Suite 521Lake Matthew, DE 06183",DimGray,32 .88710464561531,12.387184173554845,37.4311590983261,6.401228837806772,684.163431 0159512',

'dominguezjacob@hotmail.com,"8594 Erica Manors Apt. 529Lake Miguel, MH 10652-92 66",CornflowerBlue,32.510217994444325,10.984835888186163,37.396497475332055,5.39 1275125020631,555.8925953881737',

'ebrown@osborne.com,"4291 Nichols Fork Apt. 562Thomaschester, SC 08938-8769",Da rkSlateGray,31.94539574834452,12.965761479512215,36.96638889642577,6.07665363844 0144,657.0199239376519',

'nathan86@hotmail.com,"748 Michael PlazaWest Billyside, UT 20799",MidnightBlue, 36.13966248879052,12.050267234380506,36.95964319393419,3.8648607392342784,595.80 38188761143',

'aaron11@luna.com,"672 Jesus Roads Apt. 443Thompsonland, WY 69228",LightSkyBlue ,32.44952156114242,13.45772494051235,37.23880567308968,2.941410754428091,503.978

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 'allison80@carson-hansen.com,"04311 Oconnor Park Apt. 415Kelleystad, ND 63064-8  
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 'mark94@yahoo.com,"586 Timothy Union Suite 592East Joseph, MO 81374",Salmon,32.  
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 'daniellecuevas@hotmail.com,"9287 Daniel Rest Apt. 608Allentown, SD 73050",Lave  
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'cody68@hotmail.com,"374 Dana JunctionsLangside, WI 36474",SpringGreen,34.48238 804881123,13.28303286832567,35.907298426852456,4.9687426737281415,666.1255917257 72',

'fischermonica@gmail.com,"9847 Michael Plaza Suite 837Lake Christophershire, NV 87324-8427",Navy,32.529768731474434,11.747731701242175,36.93988205032054,0.80151 57200042076,298.76200786180766',

'brenda25@gmail.com,"353 Jones Loaf Apt. 767South Michaelburgh, PR 16281-4840", OliveDrab,33.432231396262715,10.859608533152715,38.835670080853426,3.66922561131 5444,465.17662330529686',

'david58@yahoo.com,"6058 Thomas DivideMatthewland, PA 89442-8198",LightSalmon,3 3.30857161628053,11.691686125826351,37.48091197626706,1.7157771665531147,373.885 72369695015',

'clifford76@johnson.com,"8032 Hodge Circle Apt. 255Lake Jessicashire, OR 54914", RosyBrown,32.33263706834172,11.548761439776756,38.57651554990162,4.773503047345 896,532.7174856761749',

'jacquelinehughes@bennett-branch.info,"601 Ashley Loop Suite 162Port Benjaminview, DE 02456",DeepPink,34.71345123397026,11.72400223179126,36.81385766 052378,4.087837272921703,554.9007830202702',

'victoria53@hotmail.com,"16329 Sara Neck Apt. 463Bryanside, TX 62329",Pink,32.6 3587799818993,12.178573080885847,35.6742560274292,4.131755039569861,537.77316254 14566',

'cunninghamkyle@ellis-parker.org,"449 Williamson Lakes Apt. 118Travisville, AK 06848-0177",LightGreen,33.07570303157222,12.319845062066673,37.819155112276825,3 .4427992020016864,501.100245232053',

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'michaelferguson@torres-miles.net,"757 Amber Gateway Apt. 787New Stephaniechester, OR 61576-6056",Sienna,34.142863372870714,13.177774533773801,38 .856041708111945,3.2309738432875563,557.5292736134538',

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'jlawson@mccarthy.com,"0127 Morgan Fields Apt. 080Thompsonfurt, ME 01160-7043", LightGray,33.122399984316985,11.509047996817198,37.25305774145061,3.182329731786 8184,452.12262508578493',

'marshchristopher@zimmerman-villegas.com,"667 Stephanie Lake Apt. 658Marthashire, NC 11815-2307",DarkRed,33.088529366211525,11.85766344472502,36.0 869343253416,4.8063496187852826,577.2734549822936',

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'isaiahcampbell@yahoo.com,"55414 Ramirez Union Apt. 614West Crystal, CA 03845-2 631",Red,32.48426048276214,10.93325227854703,36.54550622682937,3.261324744787093 ,425.74509203105276',

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'nielsencarmen@harrell.net,"2491 Yates Crest Suite 316Connieville, FL 92080-0819",DeepPink,32.28312306113335,10.902556227019767,36.09424195284947,4.789201624179895,524.6379646141048',

'efreeman@moore.com,"223 Powell RidgesEast Richardtown, RI 90715-2178",White,32.200798643965314,12.276981712741966,38.23260622710401,3.3164647447029107,478.8853913201482',

'roblessarah@hotmail.com,"022 Taylor Mews Suite 692Hallberg, NJ 53614",MediumSeaGreen,34.71331650656199,12.038808239866547,37.63529940965426,4.632460945972205,612.3852298963608',

'christopherhaas@gmail.com,"56674 Melanie FlatsSchneiderberg, IN 66532",MediumPurple,32.71251232693568,11.724473856834607,37.15315160406014,3.3084430006746035,476.76672415476344',

'ethomas@yahoo.com,"1279 Douglas MountainsPort Christopherberg, RI 32811-8325",LightGreen,33.69489765096749,11.202669899735568,35.49396408005128,4.015986640445782,505.11963752820367',

'wevans@gmail.com,"222 Jason ParkDominguezshire, NC 98241",Tan,31.570200829320264,13.378063328893633,36.33780003116479,4.369366793790984,545.9454921414049',

'patrickorr@yahoo.com,"6009 Heather ParkHowardhaven, SD 51705-2993",LawnGreen,33.459476848964336,11.388612618641037,37.909138717559856,2.56663984381683,434.0216997527185',

'mary84@edwards.com,"19123 Craig Isle Apt. 719Millsmouth, SC 94194",LightSkyBlue,31.820998201672072,10.771074062599588,37.27863979370761,3.5190324339539223,424.67528101321335',

'longwilliam@gmail.com,"16068 Kelly ParksWrightside, NH 21447",BurlyWood,32.73322416398153,11.818571762284998,37.102031326859105,1.503854421225295,352.55010816300035',

'lisagutierrez@johnson-herring.net,"89300 Amber Centers Apt. 879Victoriaton, VT 98394",Peru,32.407148299996685,13.808798675105963,37.42676891745393,5.039955263662929,662.9610878058954',

'david81@hotmail.com,"1576 Lane ShoalRogerton, PR 63867-3426",Thistle,33.506092281309364,11.659832840871447,37.28139282998597,4.47871260846301,560.5601606242603',

'jacksonking@mccormick.com,"120 Micheal Fort Apt. 762East Patrickbury, WY 65946",DarkMagenta,30.83643267477343,13.100109538542807,35.907721429679654,3.361612984538193,467.5019004269896',

'jessica04@christian-riley.com,"338 Graham Loaf Suite 236East Toddton, FM 43566-4238",LemonChiffon,34.87849495417028,13.067895684999526,36.6782227440393,1.9207154781756468,504.87043239337237',

'simmons martin@hardy.com,"2302 Joshua ParkMillerbury, WA 30239-8144",MediumVioletRed,34.00721197222165,12.494322933269391,36.045459420486154,4.3307144618605635,590.56271964715',

'michellejohnson@sanders-rodriguez.com,"70562 Gonzalez StravenueElizabethland, WI 40700-9149",Teal,31.525752416968214,11.340035931978807,37.03951365322458,3.811248170807232,443.9656268098819',

'tylerhernandez@barton.info,"7613 Miguel Knoll Suite 762West Katherine, WV 19406",SlateGray,31.04722213948752,11.199660962300452,38.688709099424365,3.0887639575315755,392.4973991890214',

'connerjoseph@gmail.com,"981 David SquareNew Jacquelinetown, AK 66018-4092",Turquoise,34.59577669439264,11.332487778094174,35.459862797144744,4.541695256706066,568.7175759305222',

'jeffrey54@mcdonald-williams.com,"297 Francis ValleySouth Lindsey, NY 13669-5367",Gainsboro,34.96760988717724,13.91949439608817,37.95201318688309,5.066696864020984,712.3963268096637',

'hevans@kelly-nunez.org,Unit 4065 Box 2267DP0 AE 69180-7372,Orchid,32.29524762622046,11.031358340409188,38.252978273334655,3.1074686827074625,413.29599918102974',

'lewiskendra@yahoo.com,"988 Matthew PlazaLake Jacobshire, AL 37889",Yellow,33.324240521849696,11.084584086421874,36.77601657686874,4.7469897029351396,562.0820453929382',

'freemantina@cannon.org,"870 Dennis ThroughwayWilsonport, PW 12658",AntiqueWhite,32.903454333014224,10.542645423983108,35.533863500263074,3.091826869545788,412.012931298847',

'wagnerbrian@hotmail.com,"50593 Wells Roads Apt. 110South Amy, MI 06969-2026",AliceBlue,32.55949313011333,11.79779551488024,37.777365796776465,3.1956257763719886,468.66846559912733',

'melissa08@nelson.com,"15863 Harrington Glens Suite 012Marystad, LA 50652-8210",Tomato,31.76561882104241,12.442616548294636,38.131712025636475,3.8502796390964265,496.55408163560713',

'karina59@gmail.com,"9580 Clark Trail Suite 687Williamsside, FM 57367",PapayaWhip,34.08164619679617,12.104542428062684,36.059645979864996,3.974522480483529,548.5185292758069',

'baldwinbryan@estrada-silva.biz,"1470 Kathleen PassSouth Christopherberg, SD 22850",MediumSeaGreen,33.304431285296005,12.37849022280867,38.76429717446252,3.843848921495288,536.1308968550213',

'audreyguerrero@carey.com,"1995 Susan Locks Suite 760East Cheryl, AR 37103-5176",BlueViolet,34.33075044367848,13.722453676229962,35.773116391246816,2.9090084604850786,558.4272571753238',

'drew29@hotmail.com,"20888 Erin ViaGrahamville, NH 72913-6101",Tomato,32.07894757956938,12.725909323593955,36.54466409871873,1.1390935384245742,357.86371863839173',

'michael00@yahoo.com,"03065 Henry Courts Suite 443Derekstad, VT 88473",DarkSlateGray,33.605798998912356,13.685118899623589,34.89198326749108,2.6852848361090778,529.0566631985306',

'jgray@khan-allen.com,"1416 Rachel CrescentWest Laurieside, IL 81119-7229",Gold,32.74515048083576,10.012583366223023,38.354959870264494,3.1089114491812744,387.3570727364218',

'bushsusan@hotmail.com,"20618 David SquareGayland, HI 78719-9628",Moccasin,32.12236479579778,11.435533874300315,36.22355746230224,4.852842407156434,528.9336185650203',

'charris@gmail.com,"2781 Matthew Wells Apt. 569Potterview, KS 50763-8282",MediumSeaGreen,32.53082944110282,12.354607081759855,37.12234520816764,2.30755242118396,420.91615953269286',

'longphillip@yahoo.com,"13044 Woods HeightsAndreamouth, ND 52317-6007",LightGreen,31.736635686050285,10.748533655415796,35.738707471214525,4.83552866742221,496

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'alexandermichael@hotmail.com,"2086 Lisa ViewOrtegabury, MI 43544",WhiteSmoke,32.69323953887129,12.600750401563928,37.37011822360151,3.467014066009709,501.9282648732441',

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'karenosborne@yahoo.com,"81814 Pratt Squares Suite 460North Robert, GU 77741-1307",SlateBlue,32.68624509039022,12.638572122192118,36.097220934711,4.2977374819712075,571.4710341154247',

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'taylorkimberly@yahoo.com,"0030 Mathis Square Suite 154South Jadehaven, AR 33997-4450",Gainsboro,31.283447476058157,12.725677367222989,35.96566746423624,5.000243360514445,591.7810894256675',

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'andreperez@hotmail.com,"17463 George PortsEast Julianborough, WY 68291",DarkOliveGreen,32.95976431107423,11.546275759510358,36.947953692845566,3.2750706813095327,448.34042501104767',

'anntaylor@hotmail.com,"PSC 1634, Box 8167APO AA 49814",Teal,33.78015676329505,11.91763618310149,36.844733815044506,3.634996006306897,518.7864830920807',

'hickmanelizabeth@yahoo.com,"12641 Greer Track Apt. 183North Mitchell, IA 77991-6276",DeepPink,32.6729435250038,12.276056984463208,37.192793532227846,3.9824715131070567,523.6339351357243',

'halljohn@yahoo.com,"311 Savannah Ramp Suite 245Carlsonbury, LA 08453-6035",MediumTurquoise,32.72852076313786,10.131712461927217,34.84561239331277,3.2877018240

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'bhamilton@shaw.biz,"036 Mary Drive Apt. 581Port Brandytown, FL 66143",DarkOrchid,33.91401511732236,12.266503838947587,36.57503097579012,3.0234744460455456,494.68715581028533',  
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'arice@reynolds.info,"740 Marshall SquaresDavidbury, AL 94251-0846",Thistle,33.56647438959015,12.235659245108506,37.27757337619507,2.5320440615078934,466.4211988217437',

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'charlesgutierrez@hotmail.com,"363 Kathleen UnderpassAshleyside, PR 98964",Mist yRose,33.53186013061325,13.665769794267847,36.90022076162611,3.515688256202335,564.7909690079206',

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'mitchellscott@gmail.com,"3976 Tom Streets Suite 438Port Daviddtown, AL 55334-2369",DarkOrange,32.76245596030955,10.952353380458653,37.646291787430776,4.019470351595002,473.360495571661',

'laurajimenez@gmail.com,"06103 Erik Fields Suite 781Jonesmouth, GA 49931-3078",SlateBlue,33.47947160188164,12.60888879370027,37.229394516276614,4.205903889533483,559.1990479544187',

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'john85@rodriguez.info,"57120 Frank KeysJerryborough, DC 81028-0939",Tomato,31.128090049616628,13.278956228597714,37.38718052656558,4.626075291951958,557.2526867470547',

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'stephaniehill@hotmail.com,"8248 Parker Overpass Apt. 024Lake Pamela, WY 44322-1735",Wheat,32.27459383033916,12.954811454937932,37.1088163801084,3.689916615447

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'qmorse@yahoo.com,"0360 Pearson Dam Suite 263Lake Shawn, UT 65986-4190",MediumT  
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'thomas22@yahoo.com,"7346 Jennifer Green Suite 148Wagnertown, MT 65972",IndianR  
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'richard35@hale-duncan.net,"33940 Craig Throughway Apt. 334Martinview, IL 62015-0314",GhostWhite,31.44597248275779,12.846499067474367,37.86921693600857,3.4201495301648563,484.87696493512857',

'waltonkaren@gmail.com,"355 Villegas Isle Apt. 070West Jenniferview, NM 26775-4339",Green,35.74266980593494,10.889828283005027,35.56543623713973,6.115198945760052,669.9871405017029',

'contrerastiffany@gmail.com,"439 Todd Summit Apt. 478Mooreland, AR 31655",CadetBlue,34.012619460656374,12.914570094327916,36.04620351842453,3.4880299912225916,547.7099885778624',

'rogerstiffany@wilson-horne.com,"30700 Justin PortsPort David, PA 52171-5921",DarkOliveGreen,34.14039342796294,11.568526641744768,38.918748541019504,4.082855278762214,537.8252822957112',

'waltercharles@sanders.net,"291 Stephen Glens Apt. 532Jacquelineton, NJ 53606-5656",IndianRed,32.37798965892753,11.971750786570597,37.19936752783635,2.8296995751470893,408.2169017707518',

'john96@chan-anderson.biz,"04290 Barron SquareLaurensmouth, AS 79917-9544",Snow,33.17233109074306,13.078692439536418,37.32981862521235,5.405406467229509,663.0748176067602',

'bushsharon@barber.com,"0013 Andre FieldWhitebury, AZ 68447-6306",DarkSeaGreen,33.24732220295966,11.956426484854195,36.51734612004179,3.4517507098331026,506.37586675019753',

'nicolegay@jennings.com,"50718 Timothy LightGarciaport, SC 60266-6696",BlueViol et,33.598913339294036,13.252737094184226,37.30596141998359,2.9355772737404866,528.4193296952955',

'rchambers@hotmail.com,"53964 Weaver Brook Suite 861Stevensonshire, NY 18128",OliveDrab,33.08529799058909,13.093537281195056,38.31564796064117,4.75036007144446,632.1235881419657',

'gomezalicia@hotmail.com,"506 Allison Cove Apt. 766Weeksstad, AS 71308",MediumSpringGreen,32.27844334791965,12.527471744522867,36.68836654250485,3.5314023030588984,488.2702979651482',

'potterkenneth@strickland.com,"2559 Harris Pines Apt. 514Michaelshire, ME 21753-8834",MediumSlateBlue,33.441553044751224,11.235968954252515,37.05261630809583,3.904479379627935,508.7357409506604',

'charlesjackson@brady-fuller.net,"3802 Veronica CausewayEast Patrickfurt, DC 84522",GhostWhite,32.86530120924307,12.074830167957375,35.569170317446186,2.3990797897904117,411.1869635742789',

'jacquelinewest@pace-herrera.com,"592 Villanueva VillageWoodsstad, AK 20530",Purple,31.526197898239808,12.045331979699332,38.50588332918249,2.8477090264744978,409.0945261923378',

'stevenjohnson@yahoo.com,"PSC 4427, Box 6116APO AP 87584-5187",SandyBrown,33.00084964015205,11.230743306761044,36.99529016635977,3.7817035651048387,467.8009243667916',

'johnsonchelsea@gmail.com,"19270 Velasquez CovesBoylechester, AZ 51480",LightCyan,32.08838063044821,11.90784409977911,35.189122444377716,4.34977841863416,512.1658663881581',

'jenniferjenkins@jones.com,USNS JacobsFPO AE 71507-1312,LightSalmon,33.265444472845786,13.052210385161311,38.775665296116884,4.574287716419565,608.271816615166

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'hoganrichard@george.com,"4929 Michelle GroveLake Alexis, MT 92147-1660",Blanch edAlmond,33.749227770813306,11.13714030231066,38.40137368953426,4.595522708601322,556.1863688687886',

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'katherinegray@yahoo.com,"685 Sexton Ranch Suite 125Lake Robertshire, NE 04469-3024",Cyan,31.123974349911947,12.38651625649485,35.63211221551042,4.288486770885737,486.9470538397658',

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'jordandavid@gmail.com,"61502 Parker Vista Apt. 363Jonesshire, GU 33532",Violet,33.66661568345138,10.9857637851215,36.35250276938114,0.9364975973183264,304.1355915788555',

'sanchezamber@scott-patterson.com,"257 Hunt ManorsSouth Charlottefort, CT 15033",Fuchsia,32.259973265557015,14.132893457553365,37.0234792364057,3.7620704427115657,571.2160048349454',

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'oliviamarshall@sawyer-sellers.com,Unit 5934 Box 9748DPO AA 37361-3043,Brown,33.91884417783405,12.428736927868275,37.305361879286025,4.158214652664192,565.9943634015267',

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'martinkristi@sanchez-coleman.com,"PSC 1893, Box 7023APO AA 73445",Lime,34.083663301629485,8.668349517101323,35.90675636579306,2.2524459633808416,308.52774655803336',

'jefferycampbell@gmail.com,"381 Ashley Locks Suite 366North Migueltown, TX 09795-0494",GreenYellow,33.025020138575876,12.504219807675257,37.645838788014025,4.051382465375181,561.5165319790891',

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'lisadelgado@gmail.com,"57993 Jennifer Unions Suite 685Emilyville, OK 53366-2375",Olive,33.499506100675546,11.946590884981756,36.486325072393406,3.937862643180167,529.1945188649573',

'sharongraves@yahoo.com,"73098 Ronald PortCliffordborough, MO 37479-9244",Wheat,32.904853667353976,12.556107616938169,37.805509432449185,0.2699010899842742,314.4385182951061',

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'rskinner@johnson-jefferson.com,"24725 Neal LockCynthiaville, NY 51578",OliveDrab,32.67515450844823,12.594194066191113,37.683875373647005,2.5717778354776577,444.5821649786528',

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'rachelrodriguez@lara-waters.com,"35466 Tommy StreamPort Daniellemouth, KS 68863-6330",LightSlateGray,33.9431185791017,11.48419869378604,36.83936583281821,2.402453833414224,436.7205558562188',

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'hking@hotmail.com,"85181 Christian Courts Suite 758Larryfurt, MS 38722-6766",PeachPuff,33.06976829928679,11.764325958658198,36.875025808917755,3.5160510174718302,487.6462317438417',

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'kimberlyruiz@smith-gordon.com,"503 Adams Pines Apt. 638North Ashleyside, AZ 34687-6128",DarkRed,33.448125009346555,11.903756682535944,36.874543604679936,2.7827578284994163,462.65651893471335',

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'aaron22@gmail.com,"38678 Sean Drive Suite 293Karentown, IA 78306-2717",DarkGray,33.452295280190306,12.005916370756164,36.53409567089256,4.712233578509767,576.4776071703129',

'michelleshepherd@price.com,"6820 Erica Vista Apt. 418Brightside, IA 50639",Orchid,32.904692444916265,11.913745152838759,36.05864760322049,1.2281124234144234,357.85798360521926',

'zscott@wright.com,"9909 Hoffman Ranch Suite 195Scotthaven, SC 53575",PeachPuff,35.63085386109822,12.125401967944384,38.18776368086846,4.019051426800218,597.7398788791847',

'tracy79@wheeler.net,"513 Moore Crescent Apt. 416Amandaberg, GU 03655-2219",Magenta,32.2463499961189,11.305551430414742,37.133126759376324,1.7073897286757314,327.37795258965207',

'brian28@sanchez.org,"7446 Mary FerryLake Sherryfurt, GA 49066-0207",GhostWhite,34.69559119111866,11.608997070875464,37.684877275306064,3.1630919310737573,510.

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 'kellydeborah@chan.biz,"354 Sanchez Wall Suite 884Juliabury, VI 39735",DarkTurquoise,33.431097102487136,13.350631684459369,37.96597162275135,2.768851943263104,510.661792219672',  
 'lewisjessica@craig-evans.com,"4483 Jones Motorway Suite 872Lake Jamiefurt, UT 75292",Tan,33.23765998436727,13.566159613087606,36.4179847963968,3.746572973103466,573.8474377162278',  
 'katrina56@gmail.com,"172 Owen Divide Suite 497West Richard, CA 19320",PaleVioletRed,34.70252897286158,11.695736293481328,37.1902677104526,3.5765259152594644,529.0490041294304',  
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