Week 4: Mini Project

This notebook will guide you through smaller portions of your final project. For this notebook, we will be using the Abalone dataset from the UCI Machine Learning Repository (https://archive.ics.uci.edu/ml/datasets/Abalone) (originating from the Marine Research Laboratories – Taroona). This dataset should already be in your folder (under `abalone.csv`) or you can download it at the above link.

Abalone

A Brief History of Abalones

An abalone is a sea snail belonging to one of a range of 30 to 130 species (depending on which scientist you ask). It is commonly prized for its mother-of-pearl shell, pearls, and delicious flesh by a variety of cultures and has long been a valuable source of food in its native environments. Sadly, wild populations of abalone have been overfished and poached to the point where commercial farming supplies most of abalone flesh nowadays. It now sits on the list of current animals threatened by extinction.

Source: https://en.wikipedia.org/wiki/Abalone (https://en.wikipedia.org/wiki/Abalone)

Part 1: Familiarize Yourself With the Dataset

The purpose of this dataset is to predict the age of an abalone through physical characteristics, determined by cutting the shell through the cone, staining it, and counting the number of rings through a microscope -- a boring and time-consuming task. Good thing it's already been done for us!

Below is the dataset description from the UCI Machine Learning Repository.

Name	Data Type	Measure	Description
Sex	nominal		M, F, and I (infant)
Length	continuous	mm	Longest shell measurement
Diameter	continuous	mm	perpendicular to length
Height	continuous	mm	with meat in shell
Whole weight	continuous	grams	whole abalone
Shucked weight	continuous	grams	weight of meat
Viscera weight	continuous	grams	gut weight (after bleeding)
Shell weight	continuous	grams	after being dried
Rings	integer		+1.5 gives the age in years

Run the cells below to examine the dataset.

In [7]:

```python
# Load Abalone dataset
# Remember to change the file location if needed
import csv
f = open("./abalone.csv")
all_lines = csv.reader(f, delimiter = ',')

# We define a header ourselves since the dataset contains only the raw numb
ers.
dataset = []
header = ['Sex', 'Length', 'Diameter', 'Height', 'Whole Weight', 'Shucked W
eight', 'Viscera Weight',
          'Shell Weight', 'Rings']
for line in all_lines:
    d = dict(zip(header, line))
    d['Length'] = float(d['Length'])
    d['Diameter'] = float(d['Diameter'])
    d['Height'] = float(d['Height'])
    d['Whole Weight'] = float(d['Whole Weight'])
    d['Shucked Weight'] = float(d['Shucked Weight'])
    d['Viscera Weight'] = float(d['Viscera Weight'])
    d['Shell Weight'] = float(d['Shell Weight'])
    d['Rings'] = int(d['Rings'])
    dataset.append(d)
```

In [8]:

```python
# See first line of dataset
dataset[0]
```

Out[8]:

```
{'Sex': 'M',
 'Length': 0.455,
 'Diameter': 0.365,
 'Height': 0.095,
 'Whole Weight': 0.514,
 'Shucked Weight': 0.2245,
 'Viscera Weight': 0.101,
 'Shell Weight': 0.15,
 'Rings': 15}
```

Part 2: Simple Statistics

This dataset is already cleaned for us and relatively straightforward, without strings or time data. In your final project, you will have to take care of missing or tricky values yourself.

Fill in the following cells with the requested information about the dataset. The answers are given so you can check the output of your own code. For floating numbers, don't worry too much about the exact numbers as long as they are quite close -- different systems may have different rounding protocols.

Feel free to `import numpy` if you want more practice with it, or just use Python's native structures to play around with the numbers.

In [9]:

```python
# Q: What is the total number of entries in the dataset?
# A: 4177
len(dataset)
```

Out[9]:

4177

In [18]:

```python
# Q: What is the average length of an abalone?
# A: 0.5239920995930099 or 0.524
m = 0
for line in dataset:
    m += line['Length']
m /= len(dataset)
m
```

Out[18]:

0.5239920995930099

In [20]:

```python
# Q: What is the widest abalone in the dataset (diameter)?
# A: 0.65
diam = 0
for line in dataset:
    if line['Diameter'] > diam:
        diam=line['Diameter']
diam
```

Out[20]:

0.65

In [25]:

```python
# Q: What is the average number of rings of smaller abalones compared to th
at of larger abalones? That
#    is, do smaller abalones tend to be younger or older than larger abalon
es?
#    We will count small abalones as abalones with lengths less than or equ
al to the average length of
#    an abalone. The average length of an abalone is 0.524.
# A: Small Abalones have on average 8.315645514223196 rings.
#    Large Abalones have on average 11.192848020434228 rings.
nsmall=0
nlarge=0
ageSmall = 0
ageLarge = 0
for line in dataset:
    if line['Length'] < m:
        ageSmall += line['Rings']
        nsmall += 1
    else:
        ageLarge += line['Rings']
        nlarge += 1
ageSmall /= nsmall
ageLarge /= nlarge
# Change variable name if necessary
print('Small Abalones have on average', ageSmall, 'rings.')
print('Large Abalones have on average', ageLarge, 'rings.')
```

```
Small Abalones have on average 8.315645514223196 rings.
Large Abalones have on average 11.192848020434228 rings.
```

Part 3: Data Visualizations

In this course, we learned about [Matplotlib (https://matplotlib.org)](https://matplotlib.org), a "Python 2D plotting library which produces publication quality figures in a variety of hardcopy formats and interactive environments across platforms". There are a [variety of plots and figures (https://matplotlib.org/gallery/index.html)](https://matplotlib.org/gallery/index.html) we can make with Matplotlib, and in conjunction with NumPy, becomes a powerful and versatile tool in your skillset.

In lectures, we covered the basics of line plots, histograms, scatter plots, bar plots, and box plots. Let's try out a few below.

In [26]:

```python
import matplotlib.pyplot as plt
from matplotlib import colors
import numpy
from collections import defaultdict
```

Line Plots

Line plots show the change in data over time. The example Line Plot below plots the change in density as abalones age (i.e. the distribution of rings). **Note that a line plot is not necessarily the best way to show this data since it doesn't deal with a trend!** Use a histogram (next step) to better showcase this data.

In [27]:

```python
# Parse out Rings column from dataset
rings = [d['Rings'] for d in dataset]
rings.sort()

# Count number of abalones with each number of rings with defaultdict
abalone_rings = defaultdict(int)
for r in rings:
    abalone_rings[r] += 1
X = list(abalone_rings.keys())
Y = list(abalone_rings.values())

# Customize plot
plt.gca().set(xlabel='Rings', ylabel='Number of Abalones',
        title='Abalone Age Distribution')
plt.grid()

# Show the plot of Rings vs Number of Abalones
plt.plot(X, Y)
```

Out[27]:

```
[<matplotlib.lines.Line2D at 0x291be487390>]
```
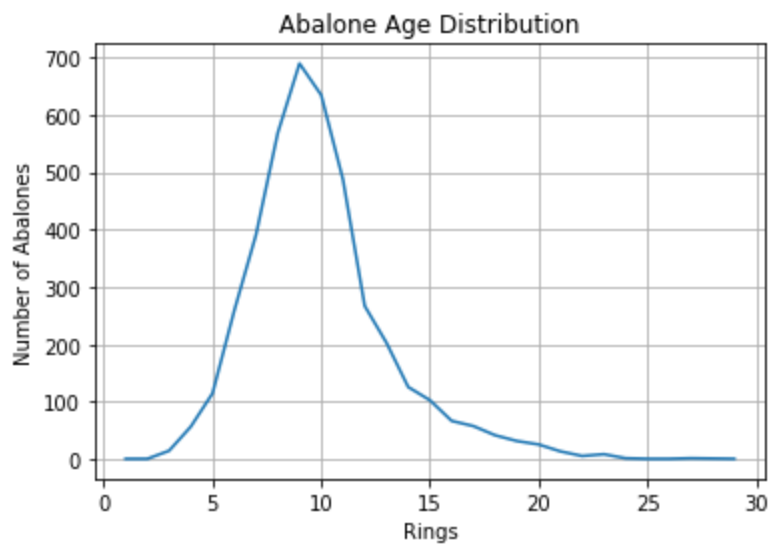
Histograms

Histograms show the distribution of numeric continuous variables with central tendency and skewness. **Using the line plot data from above, plot a histogram showing the distribution of abalone age.** Feel free to explore matplotlib (https://matplotlib.org/gallery/index.html) on your own to customize your histogram and the following visualizations.

In [30]:

```python
# Complete this cell with a histogram of abalone age distribution

# Flatten distribution list into frequency distribution
age_freq = []
for key in abalone_rings.keys():
    for i in range(0, abalone_rings.get(key)):
        age_freq.append(key)
print(age_freq[:10])

# Plot your histogram here
plt.hist(age_freq)
```

[1, 2, 3, 3, 3, 3, 3, 3, 3, 3]

Out[30]:

```
(array([  17.,  431., 1648., 1388.,  329.,  228.,  100.,    2
9.,    4.,
          3.]),
 array([ 1. ,  3.8,  6.6,  9.4, 12.2, 15. , 17.8, 20.6, 23.4,
26.2, 29. ]),
 <a list of 10 Patch objects>)
```
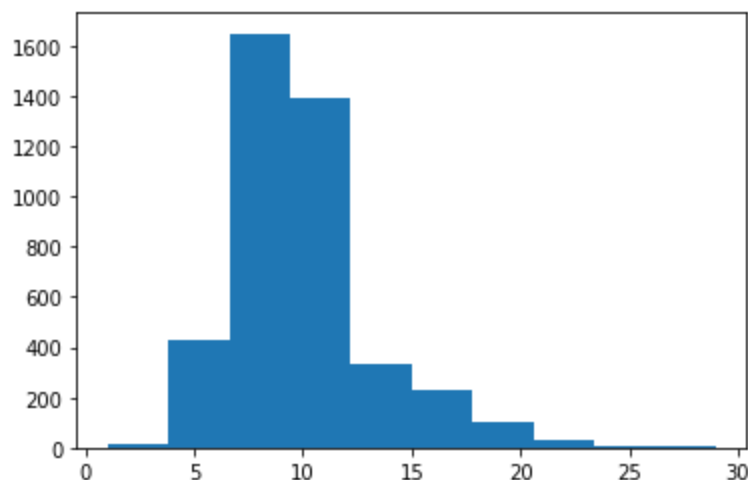
Scatter Plots

Scatter plots show the strength of a relationship between two variables (also known as correlations). From *Part 2: Simple Statistics*, we see that larger abalones tend to be larger, at least from a numbers perspective. **Let's see if this is actually true by creating a scatter plot showing the relationship between `Rings` and `Length`.**

On Your Own: Read up on `sciPy` and how you can calculate and graph the correlation as well

In [31]:

```
# Complete this cell with a scatter plot of age vs length
rings = [d['Rings'] for d in dataset]
length = [d['Length'] for d in dataset]
plt.scatter(rings,length)
```

Out[31]:

```
<matplotlib.collections.PathCollection at 0x291be751a20>
```
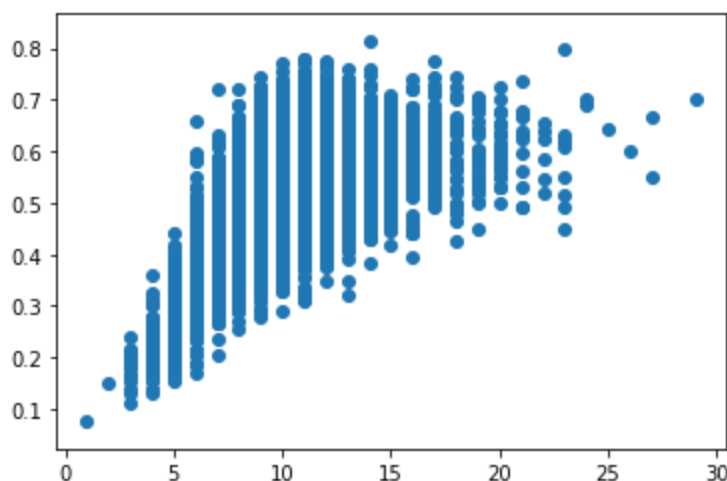

Bar Plots

Bar plots are great for comparing categorical variables. There are a few subtypes of bar plots, such as the grouped bar chart or stacked bar chart. Since we have the `Sex` field to play with, we can compare data across `M` and `F` abalones. Below is a simple stacked bar chart comparing the `Sex` category with the `Shucked Weight` data. **Create a bar chart of your choice of data.**

You may refer to the cell below to parse out fields by sex.

In [32]:

```python
# Example Stacked Bar Chart - Comparisons Between Sexes
Mweight = sum([d['Shucked Weight'] for d in dataset if d['Sex'] is 'M'])
Fweight = sum([d['Shucked Weight'] for d in dataset if d['Sex'] is 'F'])
index = [1]

p1 = plt.bar(index, Mweight, color='lightblue')
p2 = plt.bar(index, Fweight, bottom=Mweight, color='pink')
plt.gca().set(title='Abalone Shucked Weight by Sex', ylabel='Total Shucked
 Weight (g)');
plt.xticks([])

plt.legend((p1[0], p2[0]), ('Male', 'Female'))
plt.show()
```
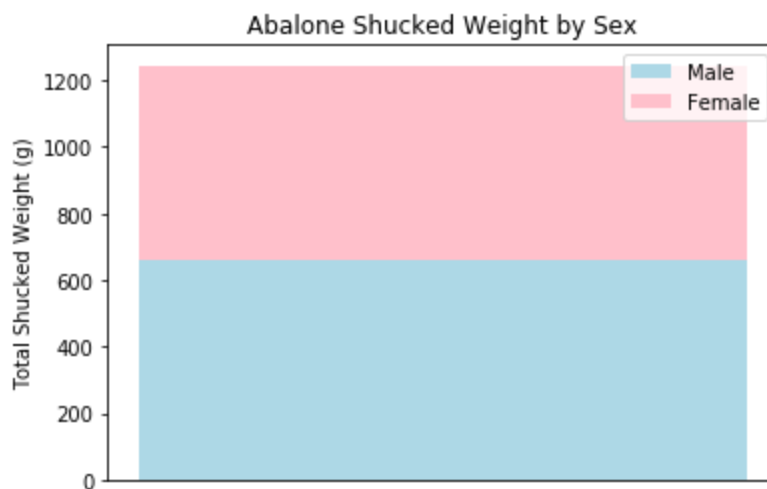
In [33]:

```python
# Complete this cell with your choice of data
Mweight = sum([d['Rings'] for d in dataset if d['Sex'] is 'M'])
Fweight = sum([d['Rings'] for d in dataset if d['Sex'] is 'F'])
index = [1]

p1 = plt.bar(index, Mweight, color='lightblue')
p2 = plt.bar(index, Fweight, bottom=Mweight, color='pink')
plt.gca().set(title='Abalone Rings by Sex', ylabel='Total Shucked Weight
 (g)');
plt.xticks([])

plt.legend((p1[0], p2[0]), ('Male', 'Female'))
plt.show()
```
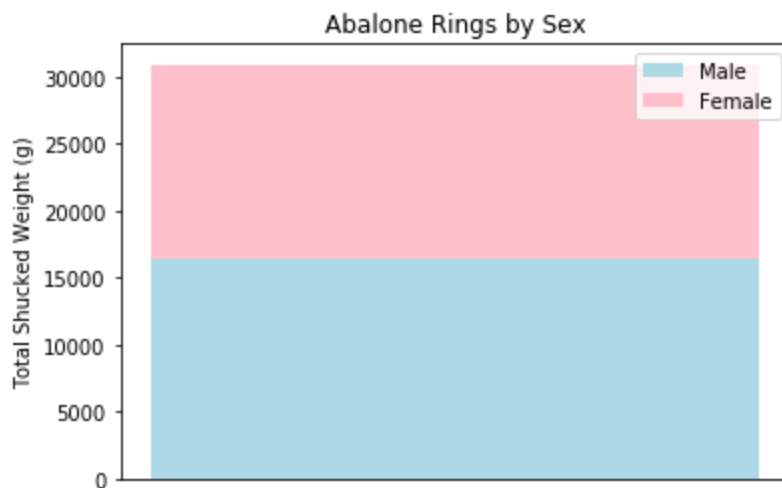

Box Plots

Box plots are useful for comparing distributions of data and are commonly found in research papers. The box portion of a box plot represents 50% of the data, and there are versions where you can mark outliers and other extremes. We have the distribution of rings already from the line plot example under the variable name `age_freq`, assuming you haven't modified it. **Find the distribution of another field of your choice and create one or more box plots with both of these fields.**

Hint: You can plot multiple box plots with the command `plt.boxplot([plot1, plot2, ..., plotn])` or use `subplots()` to draw multiple separate plots at the same time. See this matplotlib example (https://matplotlib.org/gallery/statistics/boxplot_demo.html#sphx-glr-gallery-statistics-boxplot-demo-py) for more.

In [39]:

```python
# Complete this cell with multiple box plots
Mrings=[]
Frings=[]
for d in dataset:
    if d['Sex'] is 'M':
        Mrings.append(d['Rings'])
    else:
        Frings.append(d['Rings'])

plt.boxplot([Mrings, Frings])
```

Out[39]:

```
{'whiskers': [<matplotlib.lines.Line2D at 0x291be8969e8>,
  <matplotlib.lines.Line2D at 0x291be896da0>,
  <matplotlib.lines.Line2D at 0x291be8a1f28>,
  <matplotlib.lines.Line2D at 0x291be8ad518>],
 'caps': [<matplotlib.lines.Line2D at 0x291be896e80>,
  <matplotlib.lines.Line2D at 0x291be8a1470>,
  <matplotlib.lines.Line2D at 0x291be8ad860>,
  <matplotlib.lines.Line2D at 0x291be8adba8>],
 'boxes': [<matplotlib.lines.Line2D at 0x291be896630>,
  <matplotlib.lines.Line2D at 0x291be8a1e48>],
 'medians': [<matplotlib.lines.Line2D at 0x291be8a17b8>,
  <matplotlib.lines.Line2D at 0x291be8adef0>],
 'fliers': [<matplotlib.lines.Line2D at 0x291be8a1b00>,
  <matplotlib.lines.Line2D at 0x291be8adfd0>],
 'means': []}
```
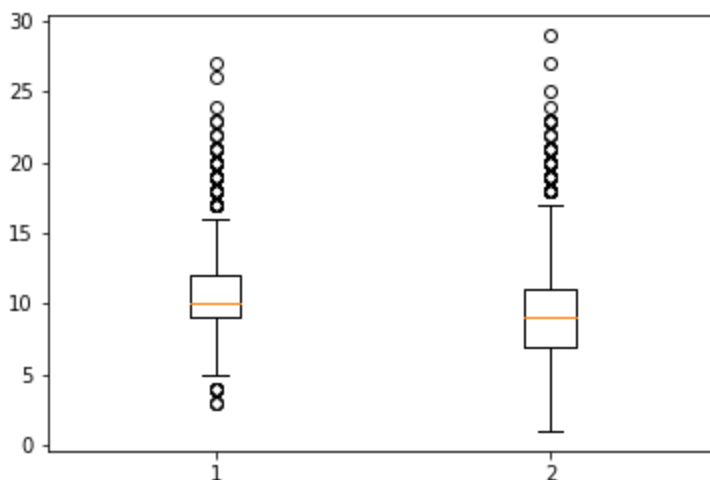
Free Response (optional)

Experiment and create visualizations of your own here.

In [ ]:

```
# Description of visualization
```

Part 4: Web Scraping (Optional)

BeautifulSoup Documentation: https://www.crummy.com/software/BeautifulSoup/bs4/doc/
(https://www.crummy.com/software/BeautifulSoup/bs4/doc/)

This part of the notebook is not graded, but still contains some valuable tips for web-scraping! You were introduced to a method of creating your own dataset by parsing a webpage in lecture videos and this week's notebook. Here is another way to parse a webpage with BeautifulSoup. We will be using a short story from Project Gutenberg (*Little Boy* (http://www.gutenberg.org/files/58743/58743-h/58743-h.htm) by Harry Neal, 1954) as an example.

On Your Own: Read this page on webscraping and try out a project!
https://automatetheboringstuff.com/chapter11/ (https://automatetheboringstuff.com/chapter11/)

Introduction to Beautiful Soup

Below are a few useful commands we will be using throughout the next section as we parse a webpage.

In [40]:

```
from urllib.request import urlopen
from bs4 import BeautifulSoup
```

In [41]:

```python
# Open and extract HTML from the webpage
f = urlopen("http://www.gutenberg.org/files/58743/58743-h/58743-h.htm")
html = str(f.read())

# First 100 characters of the HTML we grabbed
html[:100]
```

Out[41]:

```
'b\'<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//E
N"\\r\\n    "http://www.w3.org/TR/xhtml1/DTD/x'
```

In [42]:

```python
# Convert our HTML object to a BeautifulSoup object and make it readable
soup = BeautifulSoup(html, 'html.parser')
print(soup.prettify())
```

```
b'
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"\r\n
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
\r\n
<html lang="en" xml:lang="en" xmlns="http://www.w3.org/1999/xh
tml">
 \r\n
 <head>
  \r\n
  <meta content="text/html;charset=utf-8" http-equiv="Content-
Type"/>
  \r\n
  <meta content="text/css" http-equiv="Content-Style-Type"/>
  \r\n
  <title>
   \r\n      The Project Gutenberg eBook of Little Boy, by Har
ry Neal.\r\n
  </title>
  \r\n
  <link href="images/cover.jpg" rel="coverpage"/>
  \r\n\r\n
  <style type="text/css">
    \r\n\r\nbody {\r\n    margin-left: 10%;\r\n    margin-righ
t: 10%;\r\n}\r\n\r\n    h1,h2 {\r\n    text-align: center; /*
all headings centered */\r\n    clear: both;\r\n}\r\n\r\np {\r
\n    margin-top: .51em;\r\n    text-align: justify;\r\n    ma
rgin-bottom: .49em;\r\n}\r\n\r\nhr {\r\n    width: 33%;\r\n
margin-top: 2em;\r\n    margin-bottom: 2em;\r\n    margin-lef
t: 33.5%;\r\n    margin-right: 33.5%;\r\n    clear: both;\r\n}
\r\n\r\nhr.chap {width: 65%; margin-left: 17.5%; margin-right:
17.5%;}\r\nhr.tb {width: 45%; margin-left: 27.5%; margin-righ
t: 27.5%;}\r\n\r\n.center   {text-align: center;}\r\n\r\n.righ
t   {text-align: right;}\r\n\r\n.caption  {font-weight: bold;}
\r\n\r\n/* Images */\r\n.figcenter   {\r\n    margin: auto;\r
\n    text-align: center;\r\n}\r\n\r\ndiv.titlepage {\r\n  tex
t-align: center;\r\n  page-break-before: always;\r\n  page-bre
ak-after: always;\r\n}\r\n\r\ndiv.titlepage p {\r\n  text-alig
n: center;\r\n  text-indent: 0em;\r\n  font-weight: bold;\r\n
line-height: 1.5;\r\n  margin-top: 3em;\r\n}\r\n\r\n.ph1 { tex
t-align: center; text-indent: 0em; font-weight: bold; }\r\n.ph
1 { font-size: large; margin: .83em auto; }\r\n\r\n\r\n
  </style>
  \r\n
 </head>
 \r\n
 <body>
  \r\n\r\n\r\n
  <pre>\r\n\r\nThe Project Gutenberg EBook of Little Boy, by H
arry Neal\r\n\r\n\r\nThis eBook is for the use of anyone anywhere
in the United States and\r\nmost other parts of the world at n
```

o cost and with almost no restrictions\r\nwhatsoever. You may copy it, give it away or re-use it under the terms\r\nof the P roject Gutenberg License included with this eBook or online at \r\nwww.gutenberg.org. If you are not located in the United S tates, you\'ll\r\nhave to check the laws of the country where you are located before using\r\nthis ebook.\r\n\r\n\r\n\r\nTit le: Little Boy\r\n\r\nAuthor: Harry Neal\r\n\r\nRelease Date: January 21, 2019 [EBook #58743]\r\n\r\nLanguage: English\r\n\r \nCharacter set encoding: ASCII\r\n\r\n*** START OF THIS PROJE CT GUTENBERG EBOOK LITTLE BOY ***\r\n\r\n\r\n\r\n\r\nProduced by Greg Weeks, Mary Meehan and the Online\r\nDistributed Proof reading Team at http://www.pgdp.net\r\n\r\n\r\n\r\n\r\n\r \n</pre>

  \r\n\r\n\r\n
  <div class="figcenter">
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   \r\n
  </div>
  \r\n\r\n
  <hr class="chap"/>
  \r\n\r\n
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   \r\n\r\n
   <h1>
    LITTLE BOY
   </h1>
   \r\n\r\n
   <h2>
    BY HARRY NEAL
   </h2>
   \r\n\r\n
   <p class="ph1">
    <i>
     There are times when the animal in Mankind

     \r\nsavagely asserts itself. Even children become

     \r\nsnarling little beasts. Fortunately, however,

     \r\nin childhood laughter is not buried deep.
    </i>
   </p>
   \r\n\r\n
   <p>
    [Transcriber\'s Note: This etext was produced from

    \r\nWorlds of If Science Fiction, October 1954.


```
    \r\nExtensive research did not uncover any evidence that
    <br/>
    \r\nthe U.S. copyright on this publication was renewed.]
   </p>
   \r\n\r\n
  </div>
  \r\n\r\n
  <hr class="chap"/>
  \r\n\r\n
  <p>
   He dropped over the stone wall and flattened to the ground.
He looked\r\nwarily about him like a young wolf, head down, ey
es up. His name was\r\nSteven—but he\'d forgotten that. His fa
ce was a sunburned, bitter,\r\nfilthy eleven-year-old face—tig
ht lips, lean cheeks, sharp blue\r\neyes with startlingly clea
r whites. His clothes were rags—a pair of\r\ncorduroy trousers
without any knees; a man\'s white shirt, far too big\r\nfor hi
m, full of holes, stained, reeking with sweat; a pair of dirty
\r\nbrown sneakers.
  </p>
  \r\n\r\n
  <p>
   He lay, knife in hand, and waited to see if anyone had seen
him coming\r\nover the wall or heard his almost soundless land
ing on the weedgrown\r\ndirt.
  </p>
  \r\n\r\n
  <p>
   Above and behind him was the grey stone wall that ran along
Central\r\nPark West all the way from Columbus Circle to the e
dge of Harlem.\r\nHe had jumped over just north of 72nd Stree
t. Here the park was\r\nconsiderably below street level—the wa
ll was about three feet high on\r\nthe sidewalk side and about
nine feet high on the park side. From where\r\nhe lay at the f
oot of the wall only the jagged, leaning tops of the\r\nshatte
red apartment buildings across the street were visible. Like t
he\r\nteeth of a skull\'s smile they caught the late afternoon
sunlight that\r\ndrifted across the park.
  </p>
  \r\n\r\n
  <p>
   For five minutes Steven had knelt motionless on one of the
cement\r\nbenches on the other side of the wall, just the top
of his head and his\r\neyes protruding over the top. He had se
en no one moving in the park.\r\nEvery few seconds he had look
ed up and down the street behind him to\r\nmake sure that no o
ne was sneaking up on him that way. Once he had\r\nseen a man
dart out halfway across the street, then wheel and vanish\r\nb
ack into the rubble where one whole side of an apartment house
had\r\ncollapsed into 68th Street.
```

```
   </p>
   \r\n\r\n
   <p>
   Steven knew the reason for that. A dozen blocks down the st
reet, from\r\naround Columbus Circle, had come the distant hol
low racket of a pack of\r\ndogs.
   </p>
   \r\n\r\n
   <p>
   Then he had jumped over the wall—partly because the dogs mi
ght head\r\nthis way, partly because the best time to move was
when you couldn\'t\r\nsee anyone else. After all, you could ne
ver be
   <i>
    sure
   </i>
   that no one was\r\nseeing
   <i>
    you
   </i>
   . You just moved, and then you waited to see if anything\r
\nhappened. If someone came at you, you fought. Or ran, if the
other\r\nlooked too dangerous.
   </p>
   \r\n\r\n
   <p>
   No one came at him this time. Only a few days ago he\'d com
e into the\r\npark and two men had been hidden in the bushes a
few yards from the\r\nwall. They\'d been lying very still, and
had covered themselves with\r\nleaves, so he hadn\'t seen the
m; and they\'d been looking the other way,\r\nwaiting for some
one to come along one of the paths or through the\r\ntrees, so
they hadn\'t seen him looking over the wall.
   </p>
   \r\n\r\n
   <p>
   The instant he\'d landed, they were up and chasing him, yel
ling that if\r\nhe\'d drop his knife and any food he had they
\'d let him go. He dropped\r\nthe knife, because he had others
at home—and when they stopped to paw\r\nfor it in the leaves,
he got away.
   </p>
   \r\n\r\n
   <p>
   Now he got into a crouching position, very slowly. His nost
rils dilated\r\nas he sniffed the breeze. Sometimes you knew m
en were near by their\r\nsmell—the ones who didn\'t stand outs
ide when it rained and scrub the\r\nsmell off them.
   </p>
   \r\n\r\n
```

```
<p>
   He smelled nothing. He looked and listened some more, his b
lue eyes\r\nhard and bright. He saw nothing except trees, rock
s, bushes, all\r\ncrowded by thick weeds. He heard nothing exc
ept the movement of\r\ngreenery in the afternoon breeze, the f
ar off baying of the dog pack,\r\nthe flutter of birds, the sc
amper of a squirrel.
   </p>
   \r\n\r\n
   <p>
   He whirled at the scamper. When he saw that it was a squirr
el, he\r\nlicked his lips, almost tasting it. But it was too f
ar away to kill\r\nwith the knife, and he didn\'t want to risk
stoning it, because that\r\nmade noise. You stoned squirrels o
nly after you\'d scouted all around,\r\nand even then it was d
angerous—someone might hear you anyway and sneak\r\nup and kil
l you for the squirrel, or for anything else you had, or just
\r\nkill you—there were some men who did that. Not for guns or
knives or\r\nfood or anything else that Steven could see ... t
hey just killed, and\r\nhowled like dogs when they did it. He
\'d watched them. They were the men\r\nwith the funny looks in
their eyes—the ones who tried to get you to\r\ncome close to t
hem by pretending to offer you food or something.
   </p>
   \r\n\r\n
   <p>
   In a half-crouch Steven started moving deeper into the par
k, pausing\r\neach time he reached any cover to look around. H
e came to a long green\r\nslope and went down it soundlessly,
stepping on rocks whenever he\r\ncould. He crossed the weedgro
wn bridle path, darting from the shelter\r\nof a bush on one s
ide to press against the trunk of a tree on the other.
   </p>
   \r\n\r\n
   <p>
   He moved so silently that he surprised another squirrel on
the tree\r\ntrunk. In one furious motion Steven had his knife
out of his belt, and\r\nsliced it at the squirrel so fast the
blade went
   <i>
    whuh
   </i>
   in the air—but\r\nthe squirrel was faster. It scurried up o
ut of reach, and the knife\r\njust clipped off the end of its
tail. It went higher, and out onto a\r\nbranch, and chittered
at him. It was funny about squirrels—they didn\'t\r\nseem to f
eel anything in their tails. Once he\'d caught one that way,\r
\nand it had twisted and run off, leaving the snapped-off tail
in his\r\nhand.
   </p>
```

\r\n\r\n
<p>
　Dogs weren\'t that way—once he\'d fought a crippled stray f
rom a pack,\r\nand he\'d got it by the tail and swung it aroun
d and brained it on a\r\nlamppost.
</p>
\r\n\r\n
<p>
　Dogs ... squirrels....
</p>
\r\n\r\n
<hr class="tb"/>
\r\n\r\n
<p>
　Steven had some dim, almost dreamlike memory of dogs that a
cted\r\nfriendly, dogs that didn\'t roam the streets in packs
and pull you\r\ndown and tear you apart and eat you alive; and
he had a memory of the\r\nsquirrels in the park being so tame
that they\'d eat right out of your\r\nhand....
</p>
\r\n\r\n
<p>
　But that had been a long, long time ago—before men had star
ted hunting\r\nsquirrels, and sometimes dogs, for food, and do
gs had started hunting\r\nmen.
</p>
\r\n\r\n
<p>
　Steven turned south and paralleled the bridle path, going a
lways\r\nwherever the cover was thickest, moving as silently a
s the breeze.\r\nHe was going no place in particular—his purpo
se was simply to see\r\nsomeone before that someone saw him, t
o see if the other had anything\r\nworth taking, and, if so, t
ake it if possible. Also, he\'d try to get a\r\nsquirrel.
</p>
\r\n\r\n
<p>
　Far ahead of him, across the bridle path and the half-mile
or so of\r\ntree-clumped park that lay beyond, was Central Par
k South—a sawtoothed\r\nridge of grey-white rubble. And beyond
that lay the ruin of midtown\r\nManhattan. The bomb had explod
ed low over 34th Street and Seventh\r\nAvenue that night six y
ears ago, and everything for a mile in every\r\ndirection had
been leveled in ten seconds. The crater started at around\r\n2
6th and sloped down to where 34th had been and then up again t
o 40th,\r\nand it glowed at night. It wasn\'t safe to go down
around the crater,\r\nSteven knew. He\'d heard some men talkin
g about it—they\'d said that\r\nanyone who went there got sic
k; something would go wrong with their\r\nskin and their bloo
d, and they\'d start glowing too, and die.

```
</p>
\r\n\r\n
<p>
   Steven had understood only part of that. The men had seen h
im and\r\nchased him. He\'d gotten away, and since then had ne
ver ventured below\r\nCentral Park South.
</p>
\r\n\r\n
<p>
   It was a "war", they\'d said. He didn\'t know much about th
at either ...\r\nwho was winning, or had won, or even if it wa
s still being fought. He\r\nhad only the vaguest notion of wha
t a war was—it was some kind of\r\nfight, but he didn\'t think
it was over food. Someone had "bombed" the\r\ncity—once he had
heard a man call the city a "country"—and that was\r\nabout as
early as he could remember anything. In his memory was the\r\n
flash and roar of that night and, hours before that, cars with
loud\r\nvoices driving up and down the streets warning everybo
dy to get out of\r\nthe city because of the "war". But Steven
\'s father had been drunk that\r\nnight, lying on the couch in
the living room of their apartment on the\r\nupper west side,
and even the bomb hadn\'t waked him up. The cars with\r\nthe v
oices had waked Steven up; he\'d gone back to sleep after a wh
ile,\r\nand then the bomb had waked him up again. He\'d gone t
o the window and\r\nclimbed out onto the fire escape, and seen
the people running in the\r\nstreet, and listened to all the s
creaming and the steady rumble of\r\nstill-falling masonry, an
d watched the people on foot trample each\r\nother and people
in cars drive across the bodies and knock other people\r\ndown
and out of the way, and still other people jump on the cars an
d\r\npull out the drivers and try to drive away themselves unt
il someone\r\npulled
   <i>
    them
   </i>
   out.... Steven had watched, fascinated, because it was\r\nm
ore exciting than anything he\'d ever seen, like a movie. Then
a man\r\nhad stood under the fire escape, holding up his arms,
and shouted up\r\nat Steven to jump for God\'s sake, little bo
y, and that had frightened\r\nSteven and he went back inside.
His father had always told him never to\r\nplay with stranger
s.
</p>
\r\n\r\n
<p>
   Next afternoon Steven\'s father had gotten up and gone down
stairs to\r\nget a drink, and when he saw what had happened, h
e\'d come back making\r\nchoked noises in his throat and sayin
g over and over again, "Everybody\r\nworth a damn got out ...
now it\'s a jungle ... all the scum left, like\r\nme—and the o
```

nes they hurt, like you, Stevie...." He\'d put some cans of\r
\nfood in a bag and started to take Steven out of the city, bu
t a madman\r\nwith a shotgun had blown the side of his head of
f before they\'d gone\r\nfive blocks. Not to get the food or a
nything ... looting was going on\r\nall over, but there wasn
\'t any food problem yet ... the man was just\r\none of the on
es who killed for no reason at all. There\'d been a lot\r\nlik
e that the first few weeks after the bomb, but most of them ha
dn\'t\r\nlasted long—they wanted to die, it looked like, about
as much as they\r\nwanted to kill.
  </p>
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  <hr class="chap"/>
  \r\n\r\n
  <p>
   Steven had gotten away. He was five years old and small and
fast on his\r\nfeet, and the madman missed with the other barr
el.
  </p>
  \r\n\r\n
  <p>
   Steven had fled like an animal, and since then had lived li
ke one. He\'d\r\nstayed away from the men, remembering how his
father had looked with\r\nhalf a head—and because the few time
s men had seen him, they\'d chased\r\nhim; either they were af
raid he\'d steal from them, or they wanted his\r\nknife or bel
t or something. Once or twice men had shouted that they\r\nwou
ldn\'t hurt him, they only wanted to help him—but he didn\'t b
elieve\r\nthem. Not after seeing his father that way, and afte
r the times they\r\nhad tried to kill him.
  </p>
  \r\n\r\n
  <p>
   He watched the men, though, sneaking around their fires at
\r\nnight—sometimes because he was lonely and, later on, hopin
g to find\r\nscraps of food. He saw how they lived, and that w
as the way he lived\r\ntoo. He saw them raid grocery stores—he
raided the stores after they\r\nleft. He saw them carrying kni
ves and guns—he found a knife and\r\ncarried it; he hadn\'t ye
t found a gun. They ran from the dogs; he\r\nlearned to run fr
om them, after seeing them catch a man once. The men\r\nraided

other stores, taking clothes and lots of things whose use Stev
en\r\ndidn\'t understand. Steven took some clothes at first, b
ut he didn\'t\r\ncare much about what he wore—both his shirt a
nd his heavy winter coat\r\nhad come from dead men. He found t
oy stores, and had a lot of toys. The\r\nmen collected and hoa
rded wads of green paper, and sometimes fought\r\nand killed e
ach other over it. Steven vaguely remembered that it was\r\nca
lled "money", and that it was very important. He found it too,
here\r\nand there, in dead men\'s pockets, in boxes with slidi
ng drawers in\r\nstores—but he couldn\'t find any use for it,
so his hoard of it lay\r\nhidden in the hole in the floor unde
r the pile of blankets that was his\r\nbed.
  </p>
  \r\n\r\n
  <p>
   Eventually he saw the men begin to kill for food, when food
became\r\nscarce. When that happened—the food scarcity, and th
e killing—many\r\nof the men left the city, going across the b
ridges and through the\r\ntunnels under the rivers, heading fo
r the "country".
  </p>
  \r\n\r\n
  <p>
   He didn\'t follow them. The city was all he\'d ever known.
  </p>
  \r\n\r\n
  <p>
   He stayed. Along with the men who said they\'d rather stay
in the city\r\nwhere there was still plenty of food for those
who were willing to hunt\r\nhard and sometimes kill for it, an
d, in addition, beds to sleep in,\r\nrooms for protection from
the weather and dogs and other men, all the\r\nclothes you cou
ld wear, and lots of other stuff just lying around for\r\nthe
taking.
  </p>
  \r\n\r\n
  <p>
   He stayed, and so he learned to kill, when necessary, for h
is food.\r\nHe had six knives, and with them he\'d killed men
higher than he could\r\ncount. He was good at hiding—in trees,
in hallways, behind bushes,\r\nunder cars—and he was small eno
ugh to do a good job of trailing when\r\nhe saw somebody who l
ooked as though they were carrying food in their\r\npockets or
in the bags almost everyone carried. And he knew where to\r\ns
trike with the knife.
  </p>
  \r\n\r\n
  <p>
   His home was the rubble of an apartment building just north
of Columbus\r\nCircle, on Broadway. No one else lived there; o

nly he knew the way\r\nthrough the broken corridors and fallen walls and piles of stone to\r\nhis room on the seventh floor. Every day or so he went out into the\r\npark—to get food or anything at all he could get that he wanted. He\r\nwas still looking for a gun. Food was the main thing, though; he had\r\nlots of cans up in his room, but he\'d heard enough of the men\'s talk to\r\nknow that it was wise to use them only when you didn\'t have anything\r\nelse, and get what you could day by day.
  </p>
  \r\n\r\n
  <p>
   And, of course, there was water—when it didn\'t rain or snow for a\r\nwhile, he had to get water from the lakes in the park.
  </p>
  \r\n\r\n
  <p>
   That was hard sometimes. You could go two or three days without water,\r\neven if you went to one of the lakes and stayed hidden there all day,\r\nbecause it might be that long before a moment came when no one was near\r\nenough to kill you when you made your dash from the bushes and filled\r\nyour pail and dashed back. There were more skeletons around the lakes\r\nthan anyplace.
  </p>
  \r\n\r\n
  <hr class="tb"/>
  \r\n\r\n
  <p>
   The dogs were coming up Central Park West. Their racket bounced off the\r\nbroken buildings lining the street, and came down into the park, and\r\neven the squirrels and birds were quieter, as if not wanting to attract\r\nattention.
  </p>
  \r\n\r\n
  <p>
   Steven froze by the bole of a tree, ready to climb if the dogs came\r\nover the wall at him. He\'d done that once before. You climbed up and\r\nwaited while the dogs danced red-eyed beneath you, until they heard or\r\nsmelled someone else, and then they were off, bounding hungrily after\r\nthe new quarry. They\'d learned that men in trees just didn\'t come down.
  </p>
  \r\n\r\n
  <p>
   The dogs passed the point in the park where Steven waited. He knew from\r\nthe sound that they weren\'t after anybody—just prowling. The howls and\r\nsnarls and scratchy sounds of nails on concrete faded slowly.
  </p>

\r\n\r\n
<p>
  Steven didn\'t move until they were almost inaudible in the distance.
</p>
\r\n\r\n
<p>
  Then, when he did move, he took only one step—and froze again.
</p>
\r\n\r\n
<p>
  Someone was coming toward him.
</p>
\r\n\r\n
<p>
  Just a shadow of a motion, a whisper of sound, a breath—someone was\r\ncoming along the path on the other side of the bushes.
</p>
\r\n\r\n
<p>
  Steven\'s lips curled back to reveal decayed teeth. He brought out his\r\nknife from his belt and stood utterly still, waiting for the steps\r\nto go on so he could trail along behind his quarry, off to one side,\r\njudging the other\'s stature from glimpses through the bushes, and\r\nascertaining whether he was carrying anything worth killing him for.
</p>
\r\n\r\n
<p>
  But the footsteps didn\'t pass. They stopped on the other side of the\r\nbushes. Then leaves rustled as whoever it was bent to come through\r\nthe bushes. Steven hugged his tree trunk, and saw a short thin figure\r\ncoming toward him through the green leaves, a bent-over figure. He\r\nraised the knife, started to bring its point down in the short arc that\r\nwould end in the back of the other\'s neck...
</p>
\r\n\r\n
<p>
  He dropped the knife.
</p>
\r\n\r\n
<p>
  Wide-eyed, not breathing, he stared at her.
</p>
\r\n\r\n
<p>
  Knife in hand, its point aimed at his belly, she stared bac

k.
```
</p>
\r\n\r\n
<p>
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 She was dressed in a man\'s trousers, torn off at the ankles, and a\r\nyellow blouse that might have belonged to her mother, and new-looking\r\nshoes she must have found, or killed for, only a week or so ago. Her\r\nface was as sunburned and dirty as his.
```
</p>
\r\n\r\n
<p>
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 A squirrel chittered over their heads as they stared at each other.
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</p>
\r\n\r\n
<p>
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 Steven noted expertly that she seemed to be carrying no food and had\r\nno gun. No one with a gun would carry a drawn knife.
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</p>
\r\n\r\n
<p>
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 She still held the knife ready, though the point had drooped. She\r\nmoistened her lips.
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</p>
\r\n\r\n
<p>
```
 He wondered if she would attack. He obviously didn\'t have any food\r\neither, so maybe she wouldn\'t. But if she did—well, she was only a\r\nlittle larger than he was; he could probably kill her with her own\r\nknife, though he might even get his own knife from the ground before\r\nshe got to him.
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</p>
\r\n\r\n
<p>
```
 But it was a
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<i>
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 woman
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</i>
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 , he knew ... without knowing exactly what a woman\r\nwas, or how he knew. The hair was long—but then, some of the men\'s\r\nhair was long too. It was something different—something about the face\r\nand body. He hadn\'t seen many women, and certainly never one as little\r\nas this, but he knew that\'s what it was. A
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<i>
```
 woman
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</i>
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 .
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</p>
\r\n\r\n
<p>
   Once he\'d seen some men kill another man who\'d killed a w
oman for her\r\nfood. By their angry shouts he knew that killi
ng a woman was different\r\nsomehow.
</p>
\r\n\r\n
<p>
   And he remembered a woman. And a word: mother. A face and a
word, a\r\nvoice and a warmth and a not-sour body smell ... sh
e was dead. He\r\ndidn\'t remember who had killed her. Somehow
he thought she had been\r\nkilled
<i>
 before
</i>
everything changed,
<i>
 before
</i>
   the "bomb" fell; but he\r\ncouldn\'t remember very well, an
d didn\'t know how she\'d been killed or\r\neven why people ha
d killed each other in those days.... Not for food,\r\nhe thou
ght; he could remember having plenty to eat. Another word:\r\n
cancer. His father had said it about his mother. Maybe somebod
y had\r\nkilled her to get that, instead of food. Anyway, some
body had killed\r\nher, because she was dead, and people didn
\'t just
<i>
 die
</i>
 .
</p>
\r\n\r\n
<p>
 Seeing a
<i>
 woman
</i>
 , and such a little one ... it had startled him so much\r\n
he had dropped his knife.
</p>
\r\n\r\n
<p>
 But he could still kill her if he had to.
</p>
\r\n\r\n
<p>
 She stirred, her eyes wide on his. She moved just an inch o
r so.
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```
  </p>
  \r\n\r\n
  <p>
   Steven crouched, almost too fast to see, and his knife was
in his hand,\r\nready from this position to get in under her s
tab and cut her belly\r\nopen.
  </p>
  \r\n\r\n
  <p>
   She made a strangled sound and shook her head.
  </p>
  \r\n\r\n
  <p>
   Steven pulled his swing, without quite knowing why. He stru
ck her knife\r\nout of her hand with his blade, and it went sp
inning into the leaves.
  </p>
  \r\n\r\n
  <p>
   He took a step toward her, lips curled back.
  </p>
  \r\n\r\n
  <p>
   She retreated two steps, and her back was against a tree tr
unk.
  </p>
  \r\n\r\n
  <p>
   He came up to her and stood with his knife point pressing i
nto her\r\nbelly just above where the blouse entered the man
\'s pants.
  </p>
  \r\n\r\n
  <p>
   She whimpered and shook her head and whimpered again.
  </p>
  \r\n\r\n
  <p>
   He scowled at her. Looked her up and down. She was wearing
a tarnished\r\nring on her right hand, with a stone that spark
led. He liked it. He\r\ndecided to kill her. He pressed the kn
ifepoint harder, and twisted.
  </p>
  \r\n\r\n
  <p>
   She said, "Little boy—" and started to cry.
  </p>
  \r\n\r\n
  <p>
   Memories assailed Steven:
```

```
</p>
\r\n\r\n
<p>
 <i>
  Jump for God\'s sake, little boy....
 </i>
</p>
\r\n\r\n
<p>
 Distrust. Kill her.
</p>
\r\n\r\n
<p>
 <i>
  My little boy ... my son....
 </i>
</p>
\r\n\r\n
<p>
 His knifepoint wavered. He scowled.
</p>
\r\n\r\n
<p>
 <i>
  Don\'t run away, little boy—we won\'t hurt you....
 </i>
</p>
\r\n\r\n
<p>
 Kill.
</p>
\r\n\r\n
<p>
 Tears were rolling down her cheeks.
</p>
\r\n\r\n
<p>
 <i>
  My son, my baby ... I\'m crying because I have to go away
for a long\r\ntime....
 </i>
</p>
\r\n\r\n
<p>
 Steven stepped back. She was weaponless, and a
 <i>
  woman
 </i>
 —whatever that\r\nwas.
</p>
```

\r\n\r\n
<p>
 Leaves rustled. Steven and the girl froze motionless.
</p>
\r\n\r\n
<p>
 It was only a squirrel in the bushes.
</p>
\r\n\r\n
<p>
 He bent silently, looked around under the leafy green bushe
s that\r\nsurrounded them, almost at ground-level. If there ha
d been men nearby,\r\nhe could have seen their legs. He saw no
thing. He kept one eye on the\r\ngirl as he bent. She wasn\'t
crying, now that he\'d taken the knife away.\r\nShe was watchi
ng him and rubbing her belly where he\'d pressed it.
</p>
\r\n\r\n
<p>
 When he straightened, she took a step away from the tree, m
oving as\r\nsilently as he ever had. Suddenly she stooped to p
ick up her knife,\r\nmade a slashing motion at the ground with
it, looked up at him.
</p>
\r\n\r\n
<p>
 He was in mid-air. On her. She flattened beneath him with a
squeal. She\r\nwas stronger than he was, and experienced. She
brought her knife back\r\nover her shoulder, and if he hadn\'t
ducked his head it would have laid\r\nhis face open. When she
brought it down for another try, he clubbed the\r\nback of her
hand with the hilt of his knife, and she gasped and dropped\r
\nit.
</p>
\r\n\r\n
<p>
 Astride her, he raised his knife to kill her. She was point
ing with\r\nher left hand, frantically, at something that lay
on the ground\r\nbeside them, and saying, "No, no, little boy,
no, no—" Then she just\r\nwhimpered, knowing that his knife wa
s poised, and kept stabbing her\r\nfinger at the ground. Becau
se she was helpless, he paused, looked, and\r\nsaw a squirrel
lying there, head bleeding.
</p>
\r\n\r\n
<p>
 He understood. She hadn\'t been trying to kill him. She had
seen the\r\nsquirrel, and gotten it.
</p>
\r\n\r\n

```
<p>
 He decided to kill her anyway. For the squirrel.
</p>
\r\n\r\n
<p>
 "
 <i>
  No, little boy—
 </i>
 "
</p>
\r\n\r\n
<p>
 He hesitated.
</p>
\r\n\r\n
<p>
 "
 <i>
  Friends
 </i>
 , little boy...."
</p>
\r\n\r\n
<p>
 After a moment he rolled off her.
</p>
\r\n\r\n
<p>
  She sat up, cheeks tear-streaked. She pointed at the squirr
el, then at\r\nSteven, and shook her head violently.
</p>
\r\n\r\n
<p>
  Knife threatening her, he reached out to pick up the squirr
el.
</p>
\r\n\r\n
<p>
 <i>
  Mine
 </i>
 , the knife said.
</p>
\r\n\r\n
<p>
  At that point the squirrel, which had been only momentarily
stunned by\r\nher blow, shook itself and scrambled for the bus
hes. His hand missed\r\nit by inches. He lunged for it, flat o
n his belly, and caught its tail\r\nwith one hand.
```

```
</p>
\r\n\r\n
<p>
  As another squirrel\'s tail had done long ago, this one bro
ke off.
</p>
\r\n\r\n
<p>
  He lay there for a moment, snarling, the tail in his hand;
and when\r\nhe turned over, the girl had her knife in her hand
and her teeth were\r\nbared at him.
</p>
\r\n\r\n
<p>
  Blue eyes blazing, he got to his feet, expecting her to att
ack any\r\nsecond. He dropped the tail. He crouched to fight.
</p>
\r\n\r\n
<p>
  She didn\'t attack.
</p>
\r\n\r\n
<p>
  Nor, for some reason, did he.
</p>
\r\n\r\n
<p>
  The way her chapped lips were stretched back over her teeth
disturbed\r\nhim ... or rather it unsettled him, because it
  <i>
   didn\'t
  </i>
  disturb him. At\r\nleast not the way a snarl did. It didn
\'t put him on guard, every muscle\r\ntense; it didn\'t make h
im feel that he had to fight. She didn\'t look\r\nangry or eag
er to have anything he had or ready to kill ... he didn\'t\r\n
know the word for how she looked.
</p>
\r\n\r\n
<p>
  She weighed her knife in her hand. Then she struck it in he
r belt, and\r\nsaid again, "
  <i>
   Friends
  </i>
  , little boy."
</p>
\r\n\r\n
<p>
  He stared. At her strange snarl that wasn\'t a snarl. At th
```

e knife she\r\nhad put away. He had never seen anyone do that before.
</p>
\r\n\r\n
<p>
 Slowly he felt his own lips curl back into an expression he could\r\nhardly remember. He felt the way he felt sometimes late at night when,\r\nsafe and alone in his room, he would play a little with his toys. He\r\ndidn\'t feel like killing her any more. He felt like ... like
 <i>
  friends
 </i>
 .
</p>
\r\n\r\n
<p>
 He looked at the squirrel tail lying on the ground. He worried it with\r\na foot, then kicked it away. It wasn\'t good to eat—and he thought of\r\nhow the squirrel had looked scrambling off, and felt his lips stretch\r\ntighter.
</p>
\r\n\r\n
<p>
 He tried to think of the word. Finally it came.
</p>
\r\n\r\n
<p>
 "Funny squirrel," he said, through his tight lips.
</p>
\r\n\r\n
<p>
 He stuck his knife in his belt.
</p>
\r\n\r\n
<p>
 They stared at each other, feeling each other\'s pleasure at the\r\npeacemaking.
</p>
\r\n\r\n
<p>
 She bent, picked up a small stone and flipped it at him. He made no\r\nattempt to catch it, and it struck him on the hip. He half-crouched,\r\ninstantly wary, hand on knife. A thrown stone had only one meaning.
</p>
\r\n\r\n
<p>
 But she was still smiling, and she shook her head. "No, little boy,"\r\nshe said. "

```
   <i>
    Play.
   </i>
   " She tossed another stone, high in the air.
  </p>
  \r\n\r\n
  <p>
   He reached out and caught it as it descended.
  </p>
  \r\n\r\n
  <p>
   He started to toss it back to her, and remembered only at t
he last\r\nmoment not to hurl it at her head.
  </p>
  \r\n\r\n
  <p>
   He tossed it, and she missed it.
  </p>
  \r\n\r\n
  <p>
   He grinned at her.
  </p>
  \r\n\r\n
  <p>
   She tossed another one back at him, and he missed, and they
both\r\ngrinned.
  </p>
  \r\n\r\n
  <p>
   Then he grunted, remembering something from the dim past. H
e picked up\r\na small fallen branch from the ground.
  </p>
  \r\n\r\n
  <p>
   When he looked up, she was poised to run.
  </p>
  \r\n\r\n
  <p>
   This time he shook his head, waving the stick gently. "Pla
y," he said.
  </p>
  \r\n\r\n
  <p>
   She threw another stone, eyes warily on the stick. He swun
g, missed.
  </p>
  \r\n\r\n
  <p>
   He hit the next one, and the sharp crack, and the noise the
stone\r\nmade rattling off into the bushes, flattened him to t
```

he ground, eyes\r\nsearching for sign of men.
 </p>
 \r\n\r\n
 <p>
  She was beside him. He smelled her body and her breath.
 </p>
 \r\n\r\n
 <p>
  They saw no one.
 </p>
 \r\n\r\n
 <p>
  He looked at her lying beside him. She was grinning again.
 </p>
 \r\n\r\n
 <p>
  Then she laughed; and, without knowing what he was doing or why—he\r\ncould hardly remember ever doing it before—he laughed too.
 </p>
 \r\n\r\n
 <p>
  It felt good. Like the snarl that wasn\'t a snarl, only better. It\r\nseemed to come from way inside. He laughed again, sitting up. He\r\nlaughed a third time, tight hesitant sounds that came out of his throat\r\nand stretched his lips until they wouldn\'t stretch any more.
 </p>
 \r\n\r\n
 <p>
  Tears were on his cheeks, and he was laughing very tightly, very\r\nsteadily, and she was laughing the same way, and they lay that way for\r\na few minutes until they were trembling and their stomachs ached, and\r\nthe laughter was almost crying.
 </p>
 \r\n\r\n
 <p>
  He saw her face, so close by, and felt an impulse. He rolled over and\r\nstarted to scuffle with her. When she realized that he wasn\'t trying to\r\nkill her, that he was playing, she scuffled back, rubbing his face in\r\nthe dirt harder than he had hers, because she was stronger.
 </p>
 \r\n\r\n
 <p>
  He spat dirt and grass and grinned at her, and they fell apart.
 </p>
 \r\n\r\n
 <p>

```
 Footsteps.
</p>
\r\n\r\n
<hr class="tb"/>
\r\n\r\n
<p>
 His knife was out and ready, and so was hers.
</p>
\r\n\r\n
<p>
 Legs moved on the other side of the bushes, stopped.
</p>
\r\n\r\n
<p>
  Silently, almost stepping between the leaves on the ground,
Steven and\r\nthe girl crawled out the other side of the bushe
s and took up positions\r\nagainst treetrunks, just enough of
their heads protruding to see around.
</p>
\r\n\r\n
<p>
  A man came probing into the head-high bushes from the path
side ...\r\nstood there a moment looking around, only a vague
brown shape through\r\nthe leaves.
</p>
\r\n\r\n
<p>
 He grunted, went out to the path again, walked on.
</p>
\r\n\r\n
<p>
  Steven and the girl followed him by his sounds, trailing ab
out twenty\r\nfeet behind, until Steven got a good look at him
when he passed an open\r\nspace between the bushes.
</p>
\r\n\r\n
<p>
  He was a big man in brownish-green clothes—new-looking clot
hes, not\r\nfull of holes. He walked almost carelessly, as if
he didn\'t care who\r\nheard him.
</p>
\r\n\r\n
<p>
 And Steven saw the reason for that.
</p>
\r\n\r\n
<p>
  Men with guns always walked louder. This man wore a holster
ed gun at\r\nhis belt, and carried another one—a long gun some
thing like a rifle,\r\nonly bulkier.
```

```
  </p>
  \r\n\r\n
  <p>
   Steven\'s lips curled. He darted a look at the girl. Across
his mind\r\nflashed the vague idea of sharing whatever the man
had with her, but he\r\ndidn\'t know how to let her know.
  </p>
  \r\n\r\n
  <p>
   She was looking at the guns, eyes wide. Afraid. She shook h
er head.
  </p>
  \r\n\r\n
  <p>
   Steven snarled silently at her, put a hand on her chest, sh
oved gently.
  </p>
  \r\n\r\n
  <p>
   She stayed there as he moved on.
  </p>
  \r\n\r\n
  <p>
   Silently he drifted from tree to tree, bush to bush, gettin
g ahead of\r\nhis quarry. The big man\'s shoes clumped noisily
along. Steven had no\r\ntrouble telling where he was.
  </p>
  \r\n\r\n
  <p>
   At last Steven spotted a good tree, a thick-foliaged one ab
out forty\r\nfeet up the path, where the sun would be in the m
an\'s eyes.
  </p>
  \r\n\r\n
  <p>
   If the man kept following the path—
  </p>
  \r\n\r\n
  <p>
   He did.
  </p>
  \r\n\r\n
  <p>
   And when he passed below the tree, Steven was waiting on th
e low branch\r\nthat overhung the path—waiting with his face t
aut and his eyes staring\r\nand his knife ready. One stab at t
he base of the skull, and the guns\r\nwould be his.
  </p>
  \r\n\r\n
  <p>
```

```
  He jumped.
</p>
\r\n\r\n
<hr class="tb"/>
\r\n\r\n
<p>
  They brought them into the camp. By this time Steven and th
e girl had\r\nfound that their captors were far too strong and
too many to escape\r\nfrom, and quite adept at protecting them
selves from the foulest of\r\nblows. But still the two of them
struggled now and then, panting like\r\nanimals.
</p>
\r\n\r\n
<p>
  Everything at the camp, which was over on Long Island, near
Flushing\r\nBay, was neat and trim and olive-drab, and it was
almost evening now,\r\nand as the jeep rolled up the avenue be
tween the rows of tents Steven\r\nand the girl stopped struggl
ing to blink at the first artificial lights\r\nthey\'d seen in
a very long time.
</p>
\r\n\r\n
<p>
  In the lieutenant\'s tent, the big man Steven had tried to
kill said to\r\nthe man behind the desk, "Like a jaguar, sir.
Right out of the tree\r\nhe came. I had him spotted, of cours
e, but he did a peach of a job of\r\ntrailing me. If I
  <i>
   hadn\'t
  </i>
  been ready for him, I\'d be a dogtag."
</p>
\r\n\r\n
<p>
  The lieutenant looked at Steven and the girl, standing befo
re him, and\r\nthe four soldiers who stood behind them, one to
each strong dirty young\r\narm.
</p>
\r\n\r\n
<p>
  "The others got the girl, eh?" he said.
</p>
\r\n\r\n
<p>
  "Yessir. When we first heard \'em, I started making enough
noise to\r\ncover the rest of the boys." The sergeant grinned.
"I swear, he came at\r\nme as neat as any commando ever did."
</p>
\r\n\r\n
<p>
```

"God," said the lieutenant, and closed his eyes for a momen
t. "What\r\na thing. Let this war be the last one, Sipich. So
 <i>
  this
 </i>
 is what\r\nhappened to New York in six years. Maniacs. Murd
erers. Worst of all,\r\nwolf-children. And the rest of the cou
ntry...."
 </p>
 \r\n\r\n
 <p>
 "Well, we\'re back now, sir. We can start putting it all ba
ck together—"
 </p>
 \r\n\r\n
 <p>
 "God," said the lieutenant again. "Do you think the pieces
will fit?"\r\nHe looked at Steven. "What is your name, son?"
 </p>
 \r\n\r\n
 <p>
 Steven snarled.
 </p>
 \r\n\r\n
 <p>
 "Take them away," said the lieutenant wearily. "Feed them.
Delouse\r\nthem. Send them to the Georgia camp."
 </p>
 \r\n\r\n
 <p>
 "They\'ll be okay, sir. In a year or so they\'ll be smiling
all over the\r\nplace, taking an interest in things. Kids are
kids, sir."
 </p>
 \r\n\r\n
 <p>
 "
 <i>
  Are
 </i>
 they?
 <i>
  These
 </i>
 kids, Sipich? ... I don\'t know. I just don\'t\r\nknow."
 </p>
 \r\n\r\n
 <p>
 The sergeant gave an order, and the four soldiers urged Ste
ven and the\r\ngirl out of the tent. There was a bleat of pain

as one of the children\r\nplaced a kick.
  </p>
  \r\n\r\n
  <p>
   The sergeant started to follow his men out. At the tent fla
ps he\r\npaused. "Sir ... maybe you\'d like to know: we found
these two because\r\nthey were playing and laughing. We were s
couting the park, and heard\r\nthem laughing."
  </p>
  \r\n\r\n
  <p>
   "They were?" said the lieutenant, looking up from the forms
he was\r\nfilling out. "
   <i>
    Playing?
   </i>
   "
  </p>
  \r\n\r\n
  <p>
   "It\'s still there, sir. Deep down. It has to be."
  </p>
  \r\n\r\n
  <p>
   "I see," said the lieutenant slowly. "Yes, I suppose it is.
And now\r\nwe\'ve got to dig it up."
  </p>
  \r\n\r\n
  <p>
   "Well ... we buried it, sir."
  </p>
  \r\n\r\n\r\n\r\n\r\n\r\n\r\n\r\n
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u may choose to give you a second\r\nopportunity to receive th
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s the law of the state applicable to this agreement, the\r\nag
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n.\r\n\r\nMost people start at our Web site which has the main
PG search\r\nfacility: www.gutenberg.org\r\n\r\nThis Web site
includes information about Project Gutenberg-tm,\r\nincluding
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s.\r\n\r\n\r\n\r\n</pre>
  \r\n\r\n
 </body>
 \r\n
</html>
\r\n'
```

With a BeautifulSoup object, we can easily search through HTML and create lists and other structures.

In [43]:

```python
# Number of paragraph tags
len(soup.find_all('p'))
```

Out[43]:

165

In [44]:

```python
# Create list of all paragraphs
paragraph_list = soup.find_all('p')
paragraph_list[100]
```

Out[44]:

```
<p>Slowly he felt his own lips curl back into an expression he
could\r\nhardly remember. He felt the way he felt sometimes la
te at night when,\r\nsafe and alone in his room, he would play
a little with his toys. He\r\ndidn\'t feel like killing her an
y more. He felt like ... like <i>friends</i>.</p>
```

We can also extract all the text from a page and use it to create a bag of words or other measures.

In [45]:

```python
# Extract all text from page
text = soup.get_text()
text[:100]
```

Out[45]:

```
"b'\\r\\n\\r\\n  \\r\\n     \\r\\n     \\r\\n     \\r\\n        The
Project Gutenberg eBook of Little Boy, by Harry Ne"
```

In [46]:

```python
import string
from collections import import defaultdict

letters = defaultdict(int)
punctuation = set(string.punctuation)

for char in text:
    if char not in punctuation:
        letters[char] += 1

letters.items()
```

Out[46]:

```
dict_items([('b', 606), ('r', 3584), ('n', 3875), (' ', 8120),
('T', 160), ('h', 2200), ('e', 4941), ('P', 119), ('o', 2988),
('j', 116), ('c', 981), ('t', 3686), ('G', 119), ('u', 1049),
('g', 866), ('B', 61), ('k', 453), ('f', 802), ('L', 74),
('i', 2376), ('l', 1371), ('y', 759), ('H', 138), ('a', 2751),
('N', 74), ('d', 1741), ('m', 844), ('1', 68), ('0', 23),
('2', 16), ('x', 54), ('s', 1993), ('p', 660), ('5', 28),
('4', 19), ('9', 12), ('w', 849), ('3', 25), ('6', 10), ('7',
18), ('I', 135), ('v', 315), ('z', 12), ('8', 16), ('E', 130),
('U', 53), ('S', 181), ('Y', 40), ('A', 110), ('R', 71), ('D',
49), ('J', 7), ('C', 48), ('O', 71), ('F', 75), ('K', 11),
('W', 34), ('M', 33), ('—', 54), ('q', 42), ('V', 8), ('X',
2), ('Q', 1)])
```

Creating Our Own Dataset

Cooking

In previous lectures and notebooks, we wrote our own parser method to extract parts of the text. Here is a trivial example of how you can do the same with BeautifulSoup using a list of Top 10 Chefs by Gazette Review (https://gazettereview.com/2017/04/top-10-chefs/).

In [47]:

```python
# Open and extract HTML from the webpage
f = urlopen("https://gazettereview.com/2017/04/top-10-chefs/")
html = str(f.read())
soup = BeautifulSoup(html, 'html.parser')
print(soup.prettify())
```

```
b'
<!DOCTYPE doctype html >
\n
<!--[if IE 8]><html class="ie8" lang="en"> <![endif]-->
\n
<!--[if IE 9]><html class="ie9" lang="en"> <![endif]-->
\n
<!--[if gt IE 8]><!-->
<html lang="en-US" prefix="og: http://ogp.me/ns#">
 <!--<![endif]-->
 <head>
  <title>
   Top 10 Chefs In The World - The Best in 2018 - Gazette Revi
ew
  </title>
  <meta charset="utf-8"/>
  <link href="\'https://fonts.googleapis.com/css?family=Open+S
ans%3A300italic%2C400italic%2C600italic%2C400%2C600%2C700\'" i
d="\'google_font_open_sans-css\'" media="\'all\'" rel="\'style
sheet\'" type="\'text/css\'"/>
  <link href="\'https://fonts.googleapis.com/css?family=Robot
o%3A500%2C400italic%2C700%2C900%2C500italic%2C400%2C300\'" id
="\'google_font_roboto-css\'" media="\'all\'" rel="\'styleshee
t\'" type="\'text/css\'"/>
  <link data-optimized="\'2\'" href="\'https://gazettereview.c
om/min/ea9a2.css\'" rel="\'stylesheet\'"/>
  <meta content="width=device-width, initial-scale=1.0" name
="viewport"/>
  <link href="https://gazettereview.com/xmlrpc.php" rel="pingb
ack"/>
  <meta content="https://gazettereview.com/wp-content/uploads/
2017/04/Gordon-Ramsay.jpg" property="og:image">
   <meta content="Jessica Deml" name="author"/>
   <link href="https://gazettereview.com/wp-content/uploads/20
15/04/favicon-16x16.png" rel="icon" type="image/png"/>
   <meta content="These chefs spend their entire lifetimes ope
ning restaurants and building their brands and make millions o
f dollars from food." name="description">
    <meta content="chefs, cooks, chef, cooking, food, micheli
n, gordon ramsay. best chefs, richest chefs, celebrity chefs,
famous chefs, top 10, toplists" name="news_keywords"/>
    <meta content="https://gazettereview.com/2017/04/top-10-ch
efs/" name="original-source"/>
    <link href="https://gazettereview.com/2017/04/top-10-chef
s/" rel="canonical">
     <meta content="en_US" property="og:locale"/>
     <meta content="article" property="og:type"/>
     <meta content="Top 10 Chefs In The World - The Best in 20
18 - Gazette Review" property="og:title"/>
     <meta content="These chefs spend their entire lifetimes o
```

pening restaurants and building their brands and make millions
of dollars from food." property="og:description"/>
      <meta content="https://gazettereview.com/2017/04/top-10-c
hefs/" property="og:url"/>
      <meta content="Gazette Review" property="og:site_name"/>
      <meta content="chefs" property="article:tag"/>
      <meta content="cooking" property="article:tag"/>
      <meta content="Top 10" property="article:tag"/>
      <meta content="toplists" property="article:tag"/>
      <meta content="Entertainment" property="article:section"/
>
      <meta content="2017-04-22T06:43:32-05:00" property="artic
le:published_time"/>
      <meta content="2017-04-25T00:57:48-05:00" property="artic
le:modified_time"/>
      <meta content="2017-04-25T00:57:48-05:00" property="og:up
dated_time"/>
      <meta content="https://gazettereview.com/wp-content/uploa
ds/2017/04/Gordon-Ramsay.jpg" property="og:image"/>
      <meta content="https://gazettereview.com/wp-content/uploa
ds/2017/04/Gordon-Ramsay.jpg" property="og:image:secure_url"/>
      <meta content="1920" property="og:image:width"/>
      <meta content="1080" property="og:image:height"/>
      <script type="\'application/ld+json\'">
       {"@context":"http:\\/\\/schema.org","@type":"WebSite","@
id":"#website","url":"https:\\/\\/gazettereview.com\\/","nam
e":"Gazette Review","potentialAction":{"@type":"SearchActio
n","target":"https:\\/\\/gazettereview.com\\/?s={search_term_s
tring}","query-input":"required name=search_term_string"}}
      </script>
      <script type="\'application/ld+json\'">
       {"@context":"http:\\/\\/schema.org","@type":"Organizatio
n","url":"https:\\/\\/gazettereview.com\\/2017\\/04\\/top-10-c
hefs\\/","sameAs":[],"@id":"#organization","name":"Gazette Rev
iew","logo":"http:\\/\\/gazettereview.com\\/wp-content\\/uploa
ds\\/2016\\/06\\/gazettereview.jpg"}
      </script>
      <link href="\'//fonts.googleapis.com\'" rel="\'dns-prefet
ch\'"/>
      <link href="\'//s.w.org\'" rel="\'dns-prefetch\'"/>
      <link href="https://gazettereview.com/feed/" rel="alterna
te" title="Gazette Review » Feed" type="application/rss+xml"/>
      <link href="https://gazettereview.com/comments/feed/" rel
="alternate" title="Gazette Review » Comments Feed" type="appl
ication/rss+xml"/>
      <link href="https://gazettereview.com/2017/04/top-10-chef
s/feed/" rel="alternate" title="Gazette Review » Top 10 Chefs
In The World – The Best in 2018 Comments Feed" type="applicati
on/rss+xml"/>
      <script type="text/javascript">

```
        window._wpemojiSettings = {"baseUrl":"https:\\/\\/s.w.or
g\\/images\\/core\\/emoji\\/11\\/72x72\\/","ext":".png","svgUr
l":"https:\\/\\/s.w.org\\/images\\/core\\/emoji\\/11\\/svg
\\/","svgExt":".svg","source":{"concatemoji":"https:\\/\\/gaze
ttereview.com\\/wp-includes\\/js\\/wp-emoji-release.min.j
s"}};\n\t\t\t!function(a,b,c){function d(a,b){var c=String.fro
mCharCode;l.clearRect(0,0,k.width,k.height),l.fillText(c.apply
(this,a),0,0);var d=k.toDataURL();l.clearRect(0,0,k.width,k.he
ight),l.fillText(c.apply(this,b),0,0);var e=k.toDataURL();retu
rn d===e}function e(a){var b;if(!l||!l.fillText)return!1;switc
h(l.textBaseline="top",l.font="600 32px Arial",a){case"flag":r
eturn!(b=d([55356,56826,55356,56819],[55356,56826,8203,55356,5
6819]))&&(b=d([55356,57332,56128,56423,56128,56418,56128,5642
1,56128,56430,56128,56423,56128,56447],[55356,57332,8203,5612
8,56423,8203,56128,56418,8203,56128,56421,8203,56128,56430,820
3,56128,56423,8203,56128,56447]),!b);case"emoji":return b=d([5
5358,56760,9792,65039],[55358,56760,8203,9792,65039]),!b}retur
n!1}function f(a){var c=b.createElement("script");c.src=a,c.de
fer=c.type="text/javascript",b.getElementsByTagName("head")
[0].appendChild(c)}var g,h,i,j,k=b.createElement("canvas"),l=
k.getContext&&k.getContext("2d");for(j=Array("flag","emoji"),
c.supports={everything:!0,everythingExceptFlag:!0},i=0;i<j.len
gth;i++)c.supports[j[i]]=e(j[i]),c.supports.everything=c.suppo
rts.everything&&c.supports[j[i]],"flag"!==j[i]&&(c.supports.ev
erythingExceptFlag=c.supports.everythingExceptFlag&&c.supports
[j[i]]);c.supports.everythingExceptFlag=c.supports.everythingE
xceptFlag&&!c.supports.flag,c.DOMReady=!1,c.readyCallback=func
tion(){c.DOMReady=!0},c.supports.everything||(h=function(){c.r
eadyCallback()},b.addEventListener?(b.addEventListener("DOMCon
tentLoaded",h,!1),a.addEventListener("load",h,!1)):(a.attachEv
ent("onload",h),b.attachEvent("onreadystatechange",function()
{"complete"===b.readyState&&c.readyCallback()})),g=c.source||
{},g.concatemoji?f(g.concatemoji):g.wpemoji&&g.twemoji&&(f(g.t
wemoji),f(g.wpemoji)))}(window,document,window._wpemojiSetting
s);
    </script>
    <script>
     advanced_ads_ready=function(){var fns=[],listener,doc=ty
peof document==="object"&&document,hack=doc&&doc.documentEleme
nt.doScroll,domContentLoaded="DOMContentLoaded",loaded=doc&&(h
ack?/^loaded|^c/:/^loaded|^i|^c/).test(doc.readyState);if(!loa
ded&&doc){listener=function(){doc.removeEventListener(domConte
ntLoaded,listener);window.removeEventListener("load",listene
r);loaded=1;while(listener=fns.shift())listener()};doc.addEven
tListener(domContentLoaded,listener);window.addEventListener
("load",listener)}return function(fn){loaded?setTimeout(fn,0):
fns.push(fn)}}();
    </script>
    <style type="text/css">
     img.wp-smiley,\nimg.emoji {\n\tdisplay: inline !importan
```

```
t;\n\tborder: none !important;\n\tbox-shadow: none !importan
t;\n\theight: 1em !important;\n\twidth: 1em !important;\n\tmar
gin: 0 .07em !important;\n\tvertical-align: -0.1em !importan
t;\n\tbackground: none !important;\n\tpadding: 0 !importan
t;\n}
     </style>
     <script src="\'https://gazettereview.com/wp-includes/js/j
query/jquery.js\'" type="\'text/javascript\'">
     </script>
     <script data-optimized="\'1\'" src="\'https://gazetterevi
ew.com/min/609ef.js\'" type="\'text/javascript\'">
     </script>
     <script data-optimized="\'1\'" src="\'https://gazetterevi
ew.com/min/65274.js\'" type="\'text/javascript\'">
     </script>
     <script data-optimized="\'1\'" src="\'https://gazetterevi
ew.com/min/be038.js\'" type="\'text/javascript\'">
     </script>
     <script data-optimized="\'1\'" src="\'https://gazetterevi
ew.com/min/49c9c.js\'" type="\'text/javascript\'">
     </script>
     <script data-optimized="\'1\'" src="\'https://gazetterevi
ew.com/min/1d53e.js\'" type="\'text/javascript\'">
     </script>
     <script data-optimized="\'1\'" src="\'https://gazetterevi
ew.com/min/c8934.js\'" type="\'text/javascript\'">
     </script>
     <script type="\'text/javascript\'">
      /*  */\nvar advanced_ads_responsive = {"reload_on_resiz
e":"1"};\n/*  */
     </script>
     <script data-optimized="\'1\'" src="\'https://gazetterevi
ew.com/min/887c6.js\'" type="\'text/javascript\'">
     </script>
     <script data-optimized="\'1\'" src="\'https://gazetterevi
ew.com/min/7cb9f.js\'" type="\'text/javascript\'">
     </script>
     <link href="\'https://gazettereview.com/wp-json/\'" rel
="\'https://api.w.org/\'"/>
     <link href="https://gazettereview.com/xmlrpc.php?rsd" rel
="EditURI" title="RSD" type="application/rsd+xml"/>
     <link href="https://gazettereview.com/wp-includes/wlwmani
fest.xml" rel="wlwmanifest" type="application/wlwmanifest+xm
l"/>
     <meta content="WordPress 4.9.11" name="generator"/>
     <link href="\'https://gazettereview.com/?p=65275\'" rel
="\'shortlink\'"/>
     <link href="https://gazettereview.com/wp-json/oembed/1.0/
embed?url=https%3A%2F%2Fgazettereview.com%2F2017%2F04%2Ftop-10
-chefs%2F" rel="alternate" type="application/json+oembed"/>
```

```
     <link href="https://gazettereview.com/wp-json/oembed/1.0/
embed?url=https%3A%2F%2Fgazettereview.com%2F2017%2F04%2Ftop-10
-chefs%2F&amp;format=xml" rel="alternate" type="text/xml+oembe
d"/>
     <script type="text/javascript">
      var _statcounter = _statcounter || [];\n\t\t\t_statcount
er.push({"tags": {"author": "SarahW"}});
     </script>
     <script type="text/javascript">
      ;var advadsCfpQueue = [], advadsCfpExpHours = 3;\n\t\tva
r advadsCfpClickLimit = 3;\n\t\t;\n\t\tvar advadsCfpPath =
\'\';\n\t\tvar advadsCfpDomain = \'\';\n\t\tvar advadsCfpAd =
function( adID ){\n\t\t\tif ( \'undefined\' == typeof advadsPr
oCfp ) { advadsCfpQueue.push( adID ) } else { advadsProCfp.add
Element( adID ) }\n\t\t};
     </script>
     <!--[if lt IE 9]><script src="https://html5shim.googlecod
e.com/svn/trunk/html5.js"></script><![endif]-->
     <meta content="Powered by Visual Composer - drag and drop
page builder for WordPress." name="generator"/>
     \n
     <!--[if lte IE 9]><link rel="stylesheet" type="text/css"
href="https://gazettereview.com/wp-content/plugins/js_compose
r/assets/css/vc_lte_ie9.min.css" media="screen"><![endif]-->
     <!--[if IE  8]><link rel="stylesheet" type="text/css" hre
f="https://gazettereview.com/wp-content/plugins/js_composer/as
sets/css/vc-ie8.min.css" media="screen"><![endif]-->
     \n
     <script>
      var tdBlocksArray = []; //here we store all the items fo
r the current page\n\n\t    //td_block class - each ajax block
uses a object of this class for requests\n\t    function tdBlo
ck() {\n\t\t    this.id = \'\';\n\t\t    this.block_type = 1;
//block type id (1-234 etc)\n\t\t    this.atts = \'\';\n\t\t
this.td_column_number = \'\';\n\t\t    this.td_current_page =
1; //\n\t\t    this.post_count = 0; //from wp\n\t\t    this.fo
und_posts = 0; //from wp\n\t\t    this.max_num_pages = 0; //fr
om wp\n\t\t    this.td_filter_value = \'\'; //current live fil
ter value\n\t\t    this.is_ajax_running = false;\n\t\t    thi
s.td_user_action = \'\'; // load more or infinite loader (used
by the animation)\n\t\t    this.header_color = \'\';\n\t\t
this.ajax_pagination_infinite_stop = \'\'; //show load more at
page x\n\t    }\n\n\n        // td_js_generator - mini detecto
r\n        (function(){\n            var htmlTag = document.ge
tElementsByTagName("html")[0];\n\n            if ( navigator.u
serAgent.indexOf("MSIE 10.0") > -1 ) {\n                htmlTa
g.className += \' ie10\';\n            }\n\n            if (
!!navigator.userAgent.match(/Trident.*rv\\:11\\./) ) {\n
htmlTag.className += \' ie11\';\n            }\n\n
if ( /(iPad|iPhone|iPod)/g.test(navigator.userAgent) ) {\n
```

```
htmlTag.className += \' td-md-is-ios\';\n                }\n\n
var user_agent = navigator.userAgent.toLowerCase();\n
if ( user_agent.indexOf("android") > -1 ) {\n                h
tmlTag.className += \' td-md-is-android\';\n            }\n\n
if ( -1 !== navigator.userAgent.indexOf(\'Mac OS X\')  ) {\n
htmlTag.className += \' td-md-is-os-x\';\n            }\n\n
if ( /chrom(e|ium)/.test(navigator.userAgent.toLowerCase()) )
{\n              htmlTag.className += \' td-md-is-chrome\';\n
}\n\n              if ( -1 !== navigator.userAgent.indexOf(\'Fir
efox\') ) {\n                    htmlTag.className += \' td-md-is-
firefox\';\n              }\n\n          if ( -1 !== navigato
r.userAgent.indexOf(\'Safari\') && -1 === navigator.userAgent.
indexOf(\'Chrome\') ) {\n              htmlTag.className +=
\' td-md-is-safari\';\n            }\n\n        })();\n\n\n\n
\n        var tdLocalCache = {};\n\n        ( function () {\n
"use strict";\n\n            tdLocalCache = {\n
data: {},\n                remove: function (resource_id) {\n
delete tdLocalCache.data[resource_id];\n              },\n
exist: function (resource_id) {\n                return td
LocalCache.data.hasOwnProperty(resource_id) && tdLocalCache.da
ta[resource_id] !== null;\n              },\n
get: function (resource_id) {\n                return tdLo
calCache.data[resource_id];\n            },\n
set: function (resource_id, cachedData) {\n
tdLocalCache.remove(resource_id);\n                tdLocal
Cache.data[resource_id] = cachedData;\n            }\n
};\n        })();\n\n    \n    \nvar td_viewport_interval_list
=[{"limitBottom":767,"sidebarWidth":228},{"limitBottom":101
8,"sidebarWidth":300},{"limitBottom":1140,"sidebarWidth":32
4}];\nvar td_animation_stack_effect="type0";\nvar tds_animatio
n_stack=true;\nvar td_animation_stack_specific_selectors=".ent
ry-thumb, img";\nvar td_animation_stack_general_selectors=".td
-animation-stack img, .post img";\nvar td_ajax_url="https:\\/
\\/gazettereview.com\\/wp-admin\\/admin-ajax.php?td_theme_name
=Newspaper&v=7.4";\nvar td_get_template_directory_uri="http
s:\\/\\/gazettereview.com\\/wp-content\\/themes\\/Newspape
r";\nvar tds_snap_menu="";\nvar tds_logo_on_sticky="";\nvar td
s_header_style="";\nvar td_please_wait="Please wait...";\nvar
td_email_user_pass_incorrect="User or password incorrect!";\nv
ar td_email_user_incorrect="Email or username incorrect!";\nva
r td_email_incorrect="Email incorrect!";\nvar tds_more_article
s_on_post_enable="";\nvar tds_more_articles_on_post_time_to_wa
it="";\nvar tds_more_articles_on_post_pages_distance_from_top=
0;\nvar tds_theme_color_site_wide="#4db2ec";\nvar tds_smart_si
debar="";\nvar tdThemeName="Newspaper";\nvar td_magnific_popup
_translation_tPrev="Previous (Left arrow key)";\nvar td_magnif
ic_popup_translation_tNext="Next (Right arrow key)";\nvar td_m
agnific_popup_translation_tCounter="%curr% of %total%";\nvar t
d_magnific_popup_translation_ajax_tError="The content from %ur
l% could not be loaded.";\nvar td_magnific_popup_translation_i
```

```
mage_tError="The image #%curr% could not be loaded.";\nvar td_
ad_background_click_link="";\nvar td_ad_background_click_targe
t="";
    </script>
    <script async="" src="https://www.googletagmanager.com/gt
ag/js?id=UA-60151807-1">
    </script>
    <script>
     window.dataLayer = window.dataLayer || [];\n  function g
tag(){dataLayer.push(arguments);}\n  gtag(\'js\', new Date
());\n\n  gtag(\'config\', \'UA-60151807-1\');
    </script>
    <noscript>
     <style type="text/css">
      .wpb_animate_when_almost_visible { opacity: 1; }
     </style>
    </noscript>
    <meta name="\'ir-site-verification-token\'" value="\'-208
3755028\'"/>
    <meta content="76d9d0027d061b40ec8767bd8952c207" name="p:
domain_verify"/>
    <div id="amzn-assoc-ad-b8c4c6f6-9f13-4405-9c1e-7591feda73
38">
    </div>
    <script async="" src="//z-na.amazon-adsystem.com/widgets/
onejs?MarketPlace=US&amp;adInstanceId=b8c4c6f6-9f13-4405-9c1e-
7591feda7338">
    </script>
    <script type="text/javascript">
     amzn_assoc_ad_type = "link_enhancement_widget";\n     amz
n_assoc_tracking_id = "gretwt-20";\n     amzn_assoc_linkid = "b
642a5e791b065d2e1584aca55d8fde9";\n     amzn_assoc_placement =
"";\n     amzn_assoc_marketplace = "amazon";\n     amzn_assoc_re
gion = "US";
    </script>
    <script src="//ws-na.amazon-adsystem.com/widgets/q?Servic
eVersion=20070822&amp;Operation=GetScript&amp;ID=OneJS&amp;WS=
1&amp;MarketPlace=US">
    </script>
    <body class="post-template-default single single-post pos
tid-65275 single-format-standard top-10-chefs wpb-js-composer
js-comp-ver-4.12.1 vc_responsive td-animation-stack-type0 td-f
ull-layout" itemscope="itemscope" itemtype="https://schema.or
g/WebPage">
    <div class="td-scroll-up">
     <i class="td-icon-menu-up">
     </i>
    </div>
    <div class="td-menu-background">
    </div>
```

```
     <div id="td-mobile-nav">
      <div class="td-mobile-container">
       <div class="td-menu-socials-wrap">
        <div class="td-menu-socials">
        </div>
        <div class="td-mobile-close">
         \n
         <a href="#">
          <i class="td-icon-close-mobile">
          </i>
         </a>
        </div>
       </div>
       <div class="td-mobile-content">
        <div class="menu-td-header-container">
         <ul class="td-mobile-main-menu" id="menu-td-header">
          <li class="menu-item menu-item-type-post_type menu-
item-object-page menu-item-home menu-item-first menu-item-12"
id="menu-item-12">
             <a href="https://gazettereview.com/">
              Home
             </a>
            </li>
            <li class="menu-item menu-item-type-taxonomy menu-i
tem-object-category menu-item-85" id="menu-item-85">
             <a href="https://gazettereview.com/category/us/">
              US
             </a>
            </li>
            <li class="menu-item menu-item-type-taxonomy menu-i
tem-object-category menu-item-86" id="menu-item-86">
             <a href="https://gazettereview.com/category/worl
d/">
              World
             </a>
            </li>
            <li class="menu-item menu-item-type-taxonomy menu-i
tem-object-category menu-item-78" id="menu-item-78">
             <a href="https://gazettereview.com/category/busine
ss/">
              Business
             </a>
            </li>
            <li class="menu-item menu-item-type-taxonomy menu-i
tem-object-category current-post-ancestor current-menu-parent
current-post-parent menu-item-79" id="menu-item-79">
             <a href="https://gazettereview.com/category/entert
ainment/">
              Entertainment
             </a>
```

```
              </li>
              <li class="menu-item menu-item-type-taxonomy menu-i
tem-object-category menu-item-81" id="menu-item-81">
               <a href="https://gazettereview.com/category/healt
h/">
                Health
               </a>
              </li>
              <li class="menu-item menu-item-type-taxonomy menu-i
tem-object-category menu-item-82" id="menu-item-82">
               <a href="https://gazettereview.com/category/scienc
e/">
                Science
               </a>
              </li>
              <li class="menu-item menu-item-type-taxonomy menu-i
tem-object-category menu-item-83" id="menu-item-83">
               <a href="https://gazettereview.com/category/sport
s/">
                Sports
               </a>
              </li>
              <li class="menu-item menu-item-type-taxonomy menu-i
tem-object-category menu-item-84" id="menu-item-84">
               <a href="https://gazettereview.com/category/techno
logy/">
                Technology
               </a>
              </li>
            </ul>
           </div>
          </div>
         </div>
        <div class="td-search-background">
        </div>
        <div class="td-search-wrap-mob">
         <div aria-labelledby="td-header-search-button" class="t
d-drop-down-search">
          <form action="https://gazettereview.com/" class="td-se
arch-form" method="get">
           <div class="td-search-close">
            \n
            <a href="#">
             <i class="td-icon-close-mobile">
             </i>
            </a>
           </div>
           <div class="td-search-input" role="search">
            \n
```

```
            <span>
             Search
            </span>
            \n
            <input autocomplete="off" id="td-header-search-mob"
    name="s" type="text" value=""/>
           </div>
         </form>
         <div id="td-aj-search-mob">
         </div>
        </div>
       </div>
       <div id="td-outer-wrap">
        <div class="td-header-wrap td-header-style-1">
         <div class="td-header-top-menu-full">
          <div class="td-container td-header-row td-header-top-
    menu">
           <div class="top-bar-style-1">
            <div class="td-header-sp-top-menu">
             <div class="td_data_time">
              <div>
               Saturday, September 28, 2019
              </div>
             </div>
             <div class="menu-top-container">
              <ul class="top-header-menu" id="menu-td_demo_to
    p">
               <li class="menu-item menu-item-type-custom menu-
    item-object-custom menu-item-home menu-item-first td-menu-item
    td-normal-menu menu-item-714" id="menu-item-714">
                <a href="https://gazettereview.com">
                 Home
                </a>
               </li>
               <li class="menu-item menu-item-type-custom menu-
    item-object-custom td-menu-item td-normal-menu menu-item-710"
    id="menu-item-710">
                <a href="https://gazettereview.com/about">
                 About
                </a>
               </li>
               <li class="menu-item menu-item-type-custom menu-
    item-object-custom td-menu-item td-normal-menu menu-item-711"
    id="menu-item-711">
                <a href="https://gazettereview.com/our-team">
                 Our Team
                </a>
               </li>
               <li class="menu-item menu-item-type-custom menu-
    item-object-custom td-menu-item td-normal-menu menu-item-712"
```

```
id="menu-item-712">
                <a href="https://gazettereview.com/about">
                 Careers
                </a>
               </li>
               <li class="menu-item menu-item-type-post_type me
nu-item-object-page td-menu-item td-normal-menu menu-item-709"
id="menu-item-709">
                <a href="https://gazettereview.com/contact/">
                 Contact
                </a>
               </li>
              </ul>
             </div>
            </div>
           </div>
           <div class="white-popup-block mfp-hide mfp-with-ani
m" id="login-form">
            <div class="td-login-wrap">
             \n
             <a class="td-back-button" href="#">
              <i class="td-icon-modal-back">
              </i>
             </a>
             <div class="td-login-form-div td-display-block" id
="td-login-div">
              <div class="td-login-panel-title">
               Sign in
              </div>
              <div class="td-login-panel-descr">
               Welcome! Log into your account
              </div>
              <div class="td_display_err">
              </div>
              <div class="td-login-inputs">
               <input class="td-login-input" id="login_email" n
ame="login_email" required="" type="text" value=""/>
               <label>
                your username
               </label>
              </div>
              <div class="td-login-inputs">
               <input class="td-login-input" id="login_pass" na
me="login_pass" required="" type="password" value=""/>
               <label>
                your password
               </label>
              </div>
              \n
              <input class="wpb_button btn td-login-button" id
```

```
="login_button" name="login_button" type="button" value="Logi
n"/>
                <div class="td-login-info-text">
                 <a href="#" id="forgot-pass-link">
                  Forgot your password? Get help
                 </a>
                </div>
               </div>
               <div class="td-login-form-div td-display-none" id
="td-forgot-pass-div">
                <div class="td-login-panel-title">
                 Password recovery
                </div>
                <div class="td-login-panel-descr">
                 Recover your password
                </div>
                <div class="td_display_err">
                </div>
                <div class="td-login-inputs">
                 <input class="td-login-input" id="forgot_email"
name="forgot_email" required="" type="text" value=""/>
                 <label>
                  your email
                 </label>
                </div>
                \n
                <input class="wpb_button btn td-login-button" id
="forgot_button" name="forgot_button" type="button" value="Sen
d My Password"/>
                <div class="td-login-info-text">
                 A password will be e-mailed to you.
                </div>
               </div>
              </div>
             </div>
            </div>
           <div class="td-banner-wrap-full td-logo-wrap-full">
            <div class="td-container td-header-row td-header-head
er">
             <div class="td-header-sp-logo">
              \n
              <a class="td-main-logo" href="https://gazettbrevie
w.com/">
               \n
               <img alt="" src="https://gazettereview.com/wp-cont
ent/uploads/2015/04/gazette-v2.png"/>
               \n
               <span class="td-visual-hidden">
                Gazette Review
```

```
                    </span>
                     \n
                   </a>
                 </div>
                 <div class="td-header-sp-recs">
                  <div class="td-header-rec-wrap">
                  </div>
                 </div>
                </div>
               </div>
              <div class="td-header-menu-wrap-full">
               <div class="td-header-menu-wrap td-header-gradient">
                <div class="td-container td-header-row td-header-mai
n-menu">
                 <div id="td-header-menu" role="navigation">
                  <div id="td-top-mobile-toggle">
                   <a href="#">
                    <i class="td-icon-font td-icon-mobile">
                    </i>
                   </a>
                  </div>
                  <div class="td-main-menu-logo td-logo-in-header">
                   \n
                   <a class="td-mobile-logo td-sticky-disable" href
="https://gazettereview.com/">
                    \n
                    <img alt="" class="td-retina-data" data-retina
="https://gazettereview.com/wp-content/uploads/2016/10/gazette
mobile-retina.png" src="https://gazettereview.com/wp-content/u
ploads/2016/10/gazette-mobile.png"/>
                    \n
                   </a>
                   \n
                   <a class="td-header-logo td-sticky-disable" href
="https://gazettereview.com/">
                    \n
                    <img alt="" src="https://gazettereview.com/wp-co
ntent/uploads/2015/04/gazette-v2.png"/>
                    \n
                   </a>
                  </div>
                  <div class="menu-td-header-container">
                   <ul class="sf-menu" id="menu-td-header-1">
                    <li class="menu-item menu-item-type-post_type me
nu-item-object-page menu-item-home menu-item-first td-menu-ite
m td-normal-menu menu-item-12">
                      <a href="https://gazettereview.com/">
                       Home
                      </a>
                     </li>
```

```
                 <li class="menu-item menu-item-type-taxonomy men
u-item-object-category td-menu-item td-normal-menu menu-item-8
5">
                    <a href="https://gazettereview.com/category/u
s/">
                     US
                  </a>
                </li>
                <li class="menu-item menu-item-type-taxonomy men
u-item-object-category td-menu-item td-normal-menu menu-item-8
6">
                    <a href="https://gazettereview.com/category/wor
ld/">
                     World
                  </a>
                </li>
                <li class="menu-item menu-item-type-taxonomy men
u-item-object-category td-menu-item td-normal-menu menu-item-7
8">
                    <a href="https://gazettereview.com/category/bus
iness/">
                     Business
                  </a>
                </li>
                <li class="menu-item menu-item-type-taxonomy men
u-item-object-category current-post-ancestor current-menu-pare
nt current-post-parent td-menu-item td-normal-menu menu-item-7
9">
                    <a href="https://gazettereview.com/category/ent
ertainment/">
                     Entertainment
                  </a>
                </li>
                <li class="menu-item menu-item-type-taxonomy men
u-item-object-category td-menu-item td-normal-menu menu-item-8
1">
                    <a href="https://gazettereview.com/category/hea
lth/">
                     Health
                  </a>
                </li>
                <li class="menu-item menu-item-type-taxonomy men
u-item-object-category td-menu-item td-normal-menu menu-item-8
2">
                    <a href="https://gazettereview.com/category/sci
ence/">
                     Science
                  </a>
                </li>
                <li class="menu-item menu-item-type-taxonomy men
```

```
u-item-object-category td-menu-item td-normal-menu menu-item-8
3">
                 <a href="https://gazettereview.com/category/spo
rts/">
                  Sports
                 </a>
                </li>
                <li class="menu-item menu-item-type-taxonomy men
u-item-object-category td-menu-item td-normal-menu menu-item-8
4">
                 <a href="https://gazettereview.com/category/tec
hnology/">
                  Technology
                 </a>
                </li>
               </ul>
              </div>
             </div>
             <div class="td-search-wrapper">
              <div id="td-top-search">
               <div class="header-search-wrap">
                <div class="dropdown header-search">
                 \n
                 <a class="dropdown-toggle" data-toggle="dropdow
n" href="#" id="td-header-search-button" role="button">
                  <i class="td-icon-search">
                  </i>
                 </a>
                 \n
                 <a class="dropdown-toggle" data-toggle="dropdow
n" href="#" id="td-header-search-button-mob" role="button">
                  <i class="td-icon-search">
                  </i>
                 </a>
                </div>
               </div>
              </div>
             </div>
             <div class="header-search-wrap">
              <div class="dropdown header-search">
               <div aria-labelledby="td-header-search-button" cl
ass="td-drop-down-search">
                <form action="https://gazettereview.com/" class
="td-search-form" method="get">
                 <div class="td-head-form-search-wrap" role="sea
rch">
                  \n
                  <input autocomplete="off" id="td-header-searc
h" name="s" type="text" value="">
                   <input class="wpb_button wpb_btn-inverse btn"
```

```
       id="td-header-search-top" type="submit" value="Search"/>
                  </input>
                </div>
              </form>
              <div id="td-aj-search">
              </div>
            </div>
          </div>
        </div>
      </div>
    </div>
    <div class="td-main-content-wrap">
     <div class="td-container td-post-template-default">
      <div class="td-crumb-container">
      </div>
      <div class="td-pb-row">
       <div class="td-pb-span8 td-main-content" role="mai
n">
         <div class="td-ss-main-content">
          <article class="post-65275 post type-post status-p
ublish format-standard has-post-thumbnail hentry category-ente
rtainment tag-chefs tag-cooking tag-top-10 tag-toplists" id="p
ost-65275" itemscope="" itemtype="https://schema.org/Article">
            <div class="td-post-header">
             <ul class="td-category">
              <li class="entry-category">
               <a href="https://gazettereview.com/category/en
tertainment/">
                 Entertainment
               </a>
              </li>
             </ul>
             <header class="td-post-title">
              <h1 class="entry-title">
               Top 10 Chefs In The World – The Best in 2018
              </h1>
              <div class="td-module-meta-info">
               <div class="td-post-author-name">
                <div class="td-author-by">
                 By
                </div>
                Jessica Deml
                <div class="td-author-line">
                 -
                </div>
               </div>
               <time datetime="2017-04-25T00:57:48+00:00">
                April 25th, 2017
```

```
            </time>
           </div>
          </header>
         </div>
         <div class="td-post-sharing td-post-sharing-top">
          <div class="td-default-sharing">
           \n
           <a class="td-social-sharing-buttons td-social-f
acebook" href="http://www.facebook.com/sharer.php?u=https%3A%2
F%2Fgazettereview.com%2F2017%2F04%2Ftop-10-chefs%2F" onclick
="window.open(this.href, \'mywin\',\'left=50,top=50,width=600,
height=350,toolbar=0\'); return false;">
            <i class="td-icon-facebook">
            </i>
            <div class="td-social-but-text">
             Share on Facebook
            </div>
           </a>
           \n
           <a class="td-social-sharing-buttons td-social-t
witter" href="https://twitter.com/intent/tweet?text=Top+10+Che
fs+In+The+World+%E2%80%93+The+Best+in+2018&amp;url=https%3A%2
F%2Fgazettereview.com%2F2017%2F04%2Ftop-10-chefs%2F&amp;via=ga
zettereview">
            <i class="td-icon-twitter">
            </i>
            <div class="td-social-but-text">
             Tweet on Twitter
            </div>
           </a>
           \n
           <a class="td-social-sharing-buttons td-social-g
oogle" href="http://plus.google.com/share?url=https://gazetter
eview.com/2017/04/top-10-chefs/" onclick="window.open(this.hre
f, \'mywin\',\'left=50,top=50,width=600,height=350,toolbar=0
\'); return false;">
            <i class="td-icon-googleplus">
            </i>
           </a>
           \n
           <a class="td-social-sharing-buttons td-social-p
interest" href="http://pinterest.com/pin/create/button/?url=ht
tps://gazettereview.com/2017/04/top-10-chefs/&amp;media=http
s://gazettereview.com/wp-content/uploads/2017/04/Gordon-Ramsa
y.jpg&amp;description=These chefs spend their entire lifetimes
opening restaurants and building their brands and make million
s of dollars from food." onclick="window.open(this.href, \'myw
in\',\'left=50,top=50,width=600,height=350,toolbar=0\'); retur
n false;">
            <i class="td-icon-pinterest">
```

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            </i>
            </a>
            \n
            <a class="td-social-sharing-buttons td-social-w
hatsapp" href="whatsapp://send?text=Top+10+Chefs+In+The+World
+%E2%80%93+The+Best+in+2018%20-%20https%3A%2F%2Fgazettereview.
com%2F2017%2F04%2Ftop-10-chefs%2F">
                <i class="td-icon-whatsapp">
                </i>
                </a>
            </div>
          </div>
          <div class="td-post-content">
           <div class="td-post-featured-image">
            <a data-caption="" href="https://gazettereview.
com/wp-content/uploads/2017/04/Gordon-Ramsay.jpg">
              <img alt="" class="entry-thumb td-modal-image"
height="392" sizes="(max-width: 696px) 100vw, 696px" src="http
s://gazettereview.com/wp-content/uploads/2017/04/Gordon-Ramsay
-696x392.jpg" srcset="https://gazettereview.com/wp-content/upl
oads/2017/04/Gordon-Ramsay-696x392.jpg 696w, https://gazettere
view.com/wp-content/uploads/2017/04/Gordon-Ramsay-300x169.jpg
300w, https://gazettereview.com/wp-content/uploads/2017/04/Gor
don-Ramsay-768x432.jpg 768w, https://gazettereview.com/wp-cont
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          <p>
            For many people, food is more than just a biolo
gical need but a completely different experience. Some chefs a
re so passionate about food they dedicate their lives to creat
```

ing new sensory experiences. These chefs spend their entire li
fetimes opening restaurants and building their brands. As a re
sult, these chefs have become international icons and are resp
ected by even those with a casual interest in food.
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                <h2>
                 10. Anthony Bourdain
                </h2>
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rdain-280x420.jpg 280w, https://gazettereview.com/wp-content/u
ploads/2017/04/Anthony-Bourdain.jpg 320w" width="200"/>
                 <br/>
                 \nIt\xe2\x80\x99s hard to believe that the worl
d renowned chef, writer, and television personality Anthony Bo
urdain\xe2\x80\x99s career started out with him washing dishes
as a college dropout. He is now one of the most popular travel
and food personalities. Although he is no longer officially a
chef, his career spanned several decades. He was a chef at eli
te restaurants in New York such as the Supper Club, Sullivan\x
e2\x80\x99s, and One Fifth Avenue.
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                </div>
                <p>
                 Bourdain has written several successful novels
about his culinary adventures. His shows are well known by his
comedic and often profane commentary. He is also famous for th
e travel and food series No Reservations. Bourdain also has a
blue belt in Brazilian Jiu Jitsu.
                </p>
                <h2>
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                 9. Paul Bocuse
                 </h2>
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azettereview.com/wp-content/uploads/2017/04/Paul-Bocuse.jpg 46
8w" width="300"/>
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                 \nFrench chef Paul BOcuse is a legend in France
and all over the world. Now 91, he has served as mentor to man
y other world renowned chefs. He is famous for being one of th
e pioneers of
                 <em>
                  nouvelle cuisine
                 </em>
                 , a form of cooking that focuses on high qualit
y ingredients instead of richness like the traditional cuisine
classique. His most famous restaurant is l\xe2\x80\x99Auberge
du Pont de Collonges, which has received a three star Michelin
rating.
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one;"/>
                 <p>
                  Bocuse has created the Institute Paul Bocuse Wo
rldwide Alliance to teach students from all over the world. It
unites 13 universities throughout the world and sends its best
students to a course taught by Bocuse himself.
                 </p>
                 <h2>
                  8. Alain Ducasse
                 </h2>
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asse-1068x641.jpg 1068w, https://gazettereview.com/wp-content/
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                 \nAlain Ducasse is a an idol in the world of Fr
ench cuisine. He is the first chef to have three restaurants w
ith three Michelin stars each. He began his career as a chef f
or the Hotel De Paris in Monte Carlo, Monaco. Revenue from Duc
asse\xe2\x80\x99s restaurants exceeds 15 million per year.
                </p>
                <p>
                 Ducasse has opened many successful and innovati
ve restaurants in his lifetime. He has earned 21 total Micheli
n stars. He has also been featured on the famous TV show Maste
rchef.
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                 7. Emeril Lagasse
                </h2>
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se-150x150.jpg 150w, https://gazettereview.com/wp-content/uplo
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          <br/>
          \nAlthough many elite chefs are only known by n
ame to the public, Emeril Lagasse\xe2\x80\x99s loud and larger
than life persona has made him an international icon. Catchphr
ases such as \xe2\x80\x9cBam!\xe2\x80\x9d and \xe2\x80\x9ckick
it up a notch\xe2\x80\x9d made him a hit with audiences from t
he beginning.
          </p>
          <p>
          His cooking style is a fusion of Creole and Caj
un which he calls \xe2\x80\x9cNew New Orleans\xe2\x80\x9d. His
television appearances, restaurants, and endorsements earn ove
r $150 million in revenue per year.
          </p>
          <h2>
          6. Vikas Khanna
          </h2>
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iew.com/wp-content/uploads/2017/04/Vikas-Khanna-1.jpg 371w" wi
dth="243"/>
          <br/>
          \nMost famous Chefs are American or French, but
Vikas Khanna is one of the first Indian Chefs to receive inter
national acclaim. Since 2011, his main restaurant Junoon in Ne
w York City has received a Michelin star. Khanna has also coll
aborated with many other famous chefs.
          </p>
          <p>
          Vikas Khanna is known for creating the most exp
ensive cookbook in the world. The book was created over a span
of 12 years and details the rich history of Indian cuisine. Th
e book costs $13,000, and only 12 have ever been made. Khanna
has personally gifted it to famous people including Queen Eliz
abeth.
          </p>
          <h2>
          5. Marco Pierre White
          </h2>
          <p>
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00w, https://gazettereview.com/wp-content/uploads/2017/04/Marc
o-Pierre-White.jpg 620w" width="300"/>
              <br/>
              \nBritish star chef Marco Pierre White permanen
tly changed the way the world looked at food. By the age of 3
3, he had won three Michelin stars, making him the youngest ch
ef to do so. He blends classical British, French, and Italian
cooking together to create his unique style.
              </p>
              <p>
              Marco Pierre White has been featured on popular
shows like Masterchef and Hell\xe2\x80\x99s Kitchen. White ret
urned his stars later in his career, citing negative impacts o
n his personal life. He is nonetheless highly respected.
              </p>
              <h2>
               4. Heston Blumenthal
              </h2>
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7/04/Heston-Blumental.jpg 780w" width="300"/>
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              \nMost chefs primarily focus on their food bein
g beautiful and delicious. Blumenthal is one of the first chef
s to take a scientific approach to cooking. He also creates fo
od that interacts with all of the senses. His unique approach
to cooking has earned his restaurant, the Fat Duck, three Mich
elin stars.
              </p>
              <p>
              The British chef\xe2\x80\x99s advocation for a
scientific understanding of food has earned him a spot as fell
ow in the Royal Society of Chemistry. Blumenthal has also pion
eered many unique recipes. He is known for pairing food with m
olecular similarities together, even if such pairings seem biz
arre.
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</p>
<h2>
 3. Wolfgang Puck
</h2>
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                \nAfter moving to the USA at age 24, Austrian c
elebrity chef and culinary innovator Wolfgang Puck was inspire
d. He created his own unique style of cooking that blended Ita
lian and American cooking styles together with Californian ing
redients. His first restaurant, Spago, received a large amount
of critical acclaim.
</p>
<p>
 Wolfgang Puck has released multiple cookbooks a
nd appeared on many popular cooking shows. He has even acted i
n famous TV shows. In 2017, he was given a star on the Hollywo
od Walk of Fame.
</p>
<h2>
 2. Jamie Oliver
</h2>
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s://gazettereview.com/wp-content/uploads/2017/04/Jamie-Oliver-
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                \nBritish star Jamie Oliver is an icon in Brita
in and beyond. Unlike most chefs, his style of cooking is prim
arily British. His personality and skill have earned him numer
ous endorsements and millions of dollars. He is primarily know
n for his cooking shows and advocation of healthy eating.
</p>
```

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<p>
          In 2002, Oliver released the five part series J
amie\xe2\x80\x99s Kitchen. He is also the creator of The Naked
Chef. Jamie Oliver has also pushed for healthy eating in schoo
ls. Oliver was the face of British supermarket chain Sainsbury
\xe2\x80\x99s until 2005. He has been featured in hundreds of
commercials.
          </p>
          <h2>
           1. Gordon Ramsay
          </h2>
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           <br/>
           \nWith a staggering net worth of over 60 millio
n dollars and an unparalleled international reach, Gordon rams
ay is by far the most successful chef in the world. His restau
rants have received a total of 16 Michelin Stars. Ramsay is kn
own for his fiery hot attitude and zero tolerance approach to
incompetence in the kitchen.
          </p>
          <p>
           Despite his seemingly angry persona, Gordon Ram
say keeps his cool outside of the kitchen. He has actually ret
ained 85% of his staff since the beginning of his career. He h
as also been married since 1996 and has five kids. Ramsay is t
he first chef to appoint female head chefs (Clare Smith and An
gela Hartnett) to a restaurant with three Michelin stars.
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er)throw"undefined"}catch(exception){referer=document.locatio
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                      </span>
                      <a href="https://gazettereview.com/2017/04/to
p-10-dangerous-roads-world/">
                       Top 10 Most Dangerous Roads in The World
                      </a>
                     </div>
                    </div>
                   </div>
                   <div class="author-box-wrap">
                    <a href="https://gazettereview.com/author/sarah
w/">
                     <img alt="" class="avatar avatar-96 wp-user-av
atar wp-user-avatar-96 photo avatar-default" height="96" src
="https://gazettereview.com/wp-content/uploads/2018/02/gazette
-author-150x150.jpg" width="96"/>
                    </a>
                    <div class="desc">
                     <div class="td-author-name vcard author">
                      <span class="fn">
                       Jessica Deml
                      </span>
                     </div>
                     <div class="td-author-description">
                     </div>
                     <div class="td-author-social">
                     </div>
                     <div class="clearfix">
                     </div>
                    </div>
                   </div>
                   \t
                   <span itemprop="author" itemscope="" itemtype="h
ttps://schema.org/Person" style="display: none;">
                    <meta content="Jessica Deml" itemprop="name"/>
                   </span>
                   <meta content="2017-04-22T06:43:32+00:00" itempr
op="datePublished"/>
                   <meta content="2017-04-25T00:57:48+00:00" itempr
op="dateModified"/>
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top-10-chefs/" itemprop="mainEntityOfPage" itemscope="" itemty
pe="https://schema.org/WebPage">
                    <span itemprop="publisher" itemscope="" itemtyp
e="https://schema.org/Organization" style="display: none;">
                     <span itemprop="logo" itemscope="" itemtype="h
ttps://schema.org/ImageObject" style="display: none;">
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ontent/uploads/2015/04/gazette-v2.png" itemprop="url"/>
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e"/>
                </span>
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 Best in 2018" itemprop="headline "/>
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ttps://schema.org/ImageObject" style="display: none;">
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ntent/uploads/2017/04/Gordon-Ramsay.jpg" itemprop="url"/>
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                 <meta content="1080" itemprop="height"/>
                </span>
               </meta>
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               <h4 class="td-comments-title block-title">
                <span>
                 6 COMMENTS
                </span>
               </h4>
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              <ol class="comment-list">
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vatar wp-user-avatar-50 photo avatar-default" height="50" src
="https://gazettereview.com/wp-content/uploads/2018/02/gazette
-author-150x150.jpg" width="50">
                   <cite>
                    Darren Wheeler
                   </cite>
                   <a class="comment-link" href="#comment-733
0">
                    \n
                    <time pubdate="1493136480">
                     Apr 25, 2017 at 11:08 am
                    </time>
                    \n
                   </a>
                  </img>
                 </footer>
                 <div class="comment-content">
                  <p>
```

```
                       Gordon only has 4 children. Megan, Jack, Hol
ly and Matilda. Tana had a miscarriage with their 5th.
                     </p>
                   </div>
                   <div class="comment-meta" id="comment-7330">
                    \n
                    <a "65275"="" "7330",="" "comment-7330",=""
 "respond",="" )\'="" addcomment.moveform(="" aria-label="\'Re
ply" class="\'comment-reply-link\'" darren="" href="\'https://
gazettereview.com/2017/04/top-10-chefs/?replytocom=7330#respon
d\'" onclick="\'return" rel="\'nofollow\'" to="" wheeler\'="">
                     Reply
                    </a>
                   </div>
                 </article>
                 <ul class="children">
                  <li class="comment" id="comment-9227">
                   <article>
                    <footer>
                     \n
                     <img alt="" class="avatar avatar-50 wp-user
-avatar wp-user-avatar-50 photo avatar-default" height="50" sr
c="https://gazettereview.com/wp-content/uploads/2018/02/gazett
e-author-150x150.jpg" width="50">
                      <cite>
                       Mohamed Boukachabia
                      </cite>
                      <a class="comment-link" href="#comment-922
7">
                       \n
                       <time pubdate="1502158200">
                        Aug 7, 2017 at 9:10 pm
                       </time>
                       \n
                      </a>
                     </img>
                    </footer>
                    <div class="comment-content">
                     <p>
                      like Gordon kids is the main issue about t
his list
                     </p>
                    </div>
                    <div class="comment-meta" id="comment-9227">
                     \n
                     <a "65275"="" "9227",="" "comment-9227",=""
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ly" boukachabia\'="" class="\'comment-reply-link\'" href="\'ht
tps://gazettereview.com/2017/04/top-10-chefs/?replytocom=9227#
respond\'" mohamed="" onclick="\'return" rel="\'nofollow\'" to
```

```
="">
                          Reply
                        </a>
                      </div>
                    </article>
                  </li>
                </ul>
              </li>
              <li class="comment" id="comment-8698">
               <article>
                <footer>
                 \n
                 <img alt="" class="avatar avatar-50 wp-user-a
vatar wp-user-avatar-50 photo avatar-default" height="50" src
="https://gazettereview.com/wp-content/uploads/2018/02/gazette
-author-150x150.jpg" width="50">
                   <cite>
                    Juan Berrio
                   </cite>
                   <a class="comment-link" href="#comment-869
8">
                    \n
                    <time pubdate="1500546060">
                     Jul 20, 2017 at 5:21 am
                    </time>
                    \n
                   </a>
                  </img>
                </footer>
                <div class="comment-content">
                 <p>
                   This is literally one of the worst list I ha
ve ever seen in my entire life, how could you forget for the l
ove of god spanish chefs like Ferran Adri\xc3\xa1 or Arzak, do
your research before making this lists
                 </p>
                </div>
                <div class="comment-meta" id="comment-8698">
                 \n
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 "respond",="" )\'="" addcomment.moveform(="" aria-label="\'Re
ply" berrio\'="" class="\'comment-reply-link\'" href="\'http
s://gazettereview.com/2017/04/top-10-chefs/?replytocom=8698#re
spond\'" juan="" onclick="\'return" rel="\'nofollow\'" to="">
                   Reply
                  </a>
                 </div>
                </article>
              </li>
              <li class="comment" id="comment-8869">
```

```
<article>
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  \n
  <img alt="" class="avatar avatar-50 wp-user-a
vatar wp-user-avatar-50 photo avatar-default" height="50" src
="https://gazettereview.com/wp-content/uploads/2018/02/gazette
-author-150x150.jpg" width="50">
   <cite>
    Quentin
   </cite>
   <a class="comment-link" href="#comment-886
9">
    \n
    <time pubdate="1500858000">
     Jul 23, 2017 at 8:00 pm
    </time>
    \n
   </a>
  </img>
 </footer>
 <div class="comment-content">
  <p>
   This was such a poor list with no proper res
earch done beforehand. On what grounds are they even ranked ?
  </p>
 </div>
 <div class="comment-meta" id="comment-8869">
  \n
  <a "65275"="" "8869",="" "comment-8869",=""
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ply" class="\'comment-reply-link\'" href="\'https://gazetterev
iew.com/2017/04/top-10-chefs/?replytocom=8869#respond\'" oncli
ck="\'return" quentin\'="" rel="\'nofollow\'" to="">
    Reply
   </a>
  </div>
 </article>
</li>
<li class="comment" id="comment-9102">
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  <footer>
   \n
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vatar wp-user-avatar-50 photo avatar-default" height="50" src
="https://gazettereview.com/wp-content/uploads/2018/02/gazette
-author-150x150.jpg" width="50">
    <cite>
     Matt Stokes
    </cite>
    <a class="comment-link" href="#comment-910
```

```
2">
                              \n
                              <time pubdate="1501629480">
                               Aug 1, 2017 at 6:18 pm
                              </time>
                               \n
                             </a>
                           </img>
                          </footer>
                          <div class="comment-content">
                           <p>
                            marco pierre white trained ramsey are you st
inking kidding me?
                           </p>
                          </div>
                          <div class="comment-meta" id="comment-9102">
                           \n
                           <a "65275"="" "9102",="" "comment-9102",=""
 "respond",="" )\'="" addcomment.moveform(="" aria-label="\'Re
ply" class="\'comment-reply-link\'" href="\'https://gazetterev
iew.com/2017/04/top-10-chefs/?replytocom=9102#respond\'" matt
="" onclick="\'return" rel="\'nofollow\'" stokes\'="" to="">
                            Reply
                           </a>
                          </div>
                         </article>
                        </li>
                        <li class="comment" id="comment-9112">
                         <article>
                          <footer>
                           \n
                           <img alt="" class="avatar avatar-50 wp-user-a
vatar wp-user-avatar-50 photo avatar-default" height="50" src
="https://gazetteview.com/wp-content/uploads/2018/02/gazette
-author-150x150.jpg" width="50">
                            <cite>
                             just say the truth
                            </cite>
                            <a class="comment-link" href="#comment-911
2">
                             \n
                             <time pubdate="1501671180">
                              Aug 2, 2017 at 5:53 am
                             </time>
                              \n
                            </a>
                           </img>
                          </footer>
                          <div class="comment-content">
                           <p>
```

```
                            If the list is "who make more money " then y
es but best ? Don't think so
                    </p>
                    </div>
                    <div class="comment-meta" id="comment-9112">
                     \n
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ply" class="\'comment-reply-link\'" href="\'https://gazetterev
iew.com/2017/04/top-10-chefs/?replytocom=9112#respond\'" just
="" onclick="\'return" rel="\'nofollow\'" say="" the="" to=""
 truth\'="">
                      Reply
                     </a>
                    </div>
                   </article>
                  </li>
                 </ol>
                 <div class="comment-pagination">
                 </div>
                 <div class="comment-respond" id="respond">
                  <h3 class="comment-reply-title" id="reply-titl
e">
                   LEAVE A REPLY
                   <small>
                    <a href="/2017/04/top-10-chefs/#respond" id="c
ancel-comment-reply-link" rel="nofollow" style="display:non
e;">
                     Cancel reply
                    </a>
                   </small>
                  </h3>
                  <form action="https://gazettereview.com/wp-comme
nts-post.php" class="comment-form" id="commentform" method="po
st" novalidate="">
                   <div class="clearfix">
                   </div>
                   <p class="comment-form-input-wrap td-form-comme
nt">
                    <textarea aria-required="true" autocomplete="n
ope" cols="45" id="b8c30cea33" name="289cbc443d" placeholder
="Comment:" rows="8"></textarea>
                    <textarea aria-hidden="true" autocomplete="nop
e" id="comment" name="comment" style="clip:rect(1px, 1px, 1px,
1px);position:absolute !important;white-space:nowrap;height:1p
x;width:1px;overflow:hidden;" tabindex="-1"></textarea>
                    <script type="text/javascript">
                     document.getElementById("comment").setAttribu
te( "id", "aa8c6ccf47e08c016d3e5c72ba628933" );document.getEle
mentById("b8c30cea33").setAttribute( "id", "comment" );
```

```
                    </script>
                  </p>
                  <p class="comment-form-input-wrap td-form-autho
r">
                   \n
                   <span class="comment-req-wrap">
                    \n
                    <input class="" id="author" name="author" pla
ceholder="Name:" size="30" type="text" value=""/>
                   </span>
                  </p>
                  <p class="comment-form-input-wrap td-form-emai
l">
                   \n
                   <span class="comment-req-wrap">
                    <input class="" id="email" name="email" place
holder="Email:" size="30" type="text" value=""/>
                   </span>
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                  <p class="form-submit">
                   <input class="submit" id="submit" name="submi
t" type="submit" value="Post Comment">
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nt_post_ID\'" type="\'hidden\'" value="\'65275\'"/>
                    \n
                    <input id="\'comment_parent\'" name="\'commen
t_parent\'" type="\'hidden\'" value="\'0\'"/>
                   </input>
                  </p>
                  <p style="display: none;">
                   <input id="akismet_comment_nonce" name="akisme
t_comment_nonce" type="hidden" value="52cdd1606f"/>
                  </p>
                  <p style="display: none;">
                   <input id="ak_js" name="ak_js" type="hidden" v
alue="16"/>
                  </p>
                 </form>
                </div>
               </div>
              </div>
             </div>
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ementary">
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                <div class="textwidget">
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n.com/pagead/js/adsbygoogle.js">
                 </script>
```

```
                    \n
                    <ins \ndata-ad-client="ca-pub-8025516081141479"
  \ndata-ad-slot="3343562542" \nstyle="display:inline-block;wid
th:300px;height:600px" class="adsbygoogle">
                    </ins>
                    <script>
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({});
                    </script>
                   </div>
                  </aside>
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-uid="td_uid_2_5d8fb2d48373a">
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();\nblock_td_uid_2_5d8fb2d48373a.id = "td_uid_2_5d8fb2d48373
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                      <span>
                       Most Read
                      </span>
                     </h4>
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8373a">
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tion-stack">
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```

```
                    <div class="td-module-thumb">
                     <a href="https://gazettereview.com/2019/09/h
appened-evolution-studios-whats-team-now/" rel="bookmark" titl
e="What Happened To Evolution Studios – What's the Team Doing
 Now">
                      <img alt="" class="entry-thumb" height="16
0" sizes="(max-width: 324px) 100vw, 324px" src="https://gazett
ereview.com/wp-content/uploads/2019/09/evolution-1-324x160.jp
g" srcset="https://gazettereview.com/wp-content/uploads/2019/0
9/evolution-1-324x160.jpg 324w, https://gazettereview.com/wp-c
ontent/uploads/2019/09/evolution-1-533x261.jpg 533w" title="Wh
at Happened To Evolution Studios – What's the Team Doing Now"
 width="324"/>
                     </a>
                    </div>
                   </div>
                   <h3 class="entry-title td-module-title">
                    <a href="https://gazettereview.com/2019/09/ha
ppened-evolution-studios-whats-team-now/" rel="bookmark" title
="What Happened To Evolution Studios – What's the Team Doing N
ow">
                     What Happened To Evolution Studios – What's
 the Team Doing Now
                    </a>
                   </h3>
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                    \n
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te" datetime="2019-09-22T21:41:11+00:00">
                      Sep 22, 2019
                     </time>
                    </span>
                   </div>
                   <div class="td-excerpt">
                    \nEvolution Studios entered the gaming scene
 in 1999 and it had some big titles throughout its time. The c
ompany began with a racing demo...
                   </div>
                  </div>
                 </div>
                </div>
               </div>
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et td_uid_3_5d8fb2d48e4da_rand td-pb-border-top" data-td-block
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er .entry-title a,\n              .td_uid_3_5d8fb2d48e4da_rand
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```
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y:hover,\n                .td_uid_3_5d8fb2d48e4da_rand .td-opacity
-read .td-read-more a:hover,\n                .td_uid_3_5d8fb2d48e
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b2b;\n                }\n\n                .td_uid_3_5d8fb2d48e4da_ran
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.td-trending-now-title,\n                .td_uid_3_5d8fb2d48e4da_r
and .block-title a,\n                .td_uid_3_5d8fb2d48e4da_rand
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d-weather-information:before,\n                .td_uid_3_5d8fb2d48
e4da_rand .td-weather-week:before,\n                .td_uid_3_5d8f
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.td_uid_3_5d8fb2d48e4da_rand .td-post-category:hover {\n
background-color: #2b2b2b;\n                }\n\n                .td_u
id_3_5d8fb2d48e4da_rand .block-title {\n                border
-color: #2b2b2b;\n                }\n\n                \n                .
td_uid_3_5d8fb2d48e4da_rand .block-title span,\n                .t
d_uid_3_5d8fb2d48e4da_rand .td-trending-now-title,\n
.td_uid_3_5d8fb2d48e4da_rand .block-title a {\n
color: #;\n                }
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s":"1,9,10,11,14,15,18","custom_title":"EDITOR PICKS","custom_
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_posts = "2";\nblock_td_uid_3_5d8fb2d48e4da.header_color = "#2
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```

```
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            </script>
            <div class="td-block-title-wrap">
             <h4 class="block-title">
              <span>
               EDITOR PICKS
              </span>
             </h4>
            </div>
            <div class="td_block_inner" id="td_uid_3_5d8fb2d4
8e4da">
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tion-stack">
               <div class="td-module-thumb">
                <a href="https://gazettereview.com/2019/09/nf
l-week-3-results-news/" rel="bookmark" title="NFL Week 3: Resu
lts, News &amp; More">
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 sizes="(max-width: 100px) 100vw, 100px" src="https://gazetter
eview.com/wp-content/uploads/2019/09/5d83ef1d2e22af3a8164e703-
750-375-100x70.jpg" srcset="https://gazettereview.com/wp-conte
nt/uploads/2019/09/5d83ef1d2e22af3a8164e703-750-375-100x70.jpg
100w, https://gazettereview.com/wp-content/uploads/2019/09/5d8
3ef1d2e22af3a8164e703-750-375-218x150.jpg 218w, https://gazett
ereview.com/wp-content/uploads/2019/09/5d83ef1d2e22af3a8164e70
3-750-375-534x375.jpg 534w" title="NFL Week 3: Results, News &
amp; More" width="100"/>
                </a>
               </div>
               <div class="item-details">
                <h3 class="entry-title td-module-title">
                 <a href="https://gazettereview.com/2019/09/n
fl-week-3-results-news/" rel="bookmark" title="NFL Week 3: Res
ults, News &amp; More">
                  NFL Week 3: Results, News &amp; More
                 </a>
                </h3>
                <div class="td-module-meta-info">
                 \n
                 <span class="td-post-date">
                  <time class="entry-date updated td-module-d
ate" datetime="2019-09-22T20:53:20+00:00">
                   Sep 22, 2019
                  </time>
                 </span>
                </div>
               </div>
              </div>
```

```
                </div>
                <div class="td-block-span12">
                 <div class="td_module_6 td_module_wrap td-anima
tion-stack">
                   <div class="td-module-thumb">
                    <a href="https://gazettereview.com/2019/09/20
30-world-cup-ecuador-interested-joint-bid/" rel="bookmark" tit
le="2030 World Cup: Ecuador Interested In Joint Bid">
                     <img alt="" class="entry-thumb" height="70"
 sizes="(max-width: 100px) 100vw, 100px" src="https://gazetter
eview.com/wp-content/uploads/2019/09/ThinkstockPhotos-48176641
4-1600x1068-100x70.jpg" srcset="https://gazettereview.com/wp-c
ontent/uploads/2019/09/ThinkstockPhotos-481766414-1600x1068-10
0x70.jpg 100w, https://gazettereview.com/wp-content/uploads/20
19/09/ThinkstockPhotos-481766414-1600x1068-218x150.jpg 218w" t
itle="2030 World Cup: Ecuador Interested In Joint Bid" width
="100"/>
                    </a>
                   </div>
                   <div class="item-details">
                    <h3 class="entry-title td-module-title">
                     <a href="https://gazettereview.com/2019/09/2
030-world-cup-ecuador-interested-joint-bid/" rel="bookmark" ti
tle="2030 World Cup: Ecuador Interested In Joint Bid">
                      2030 World Cup: Ecuador Interested In Joint
Bid
                    </a>
                    </h3>
                    <div class="td-module-meta-info">
                     \n
                     <span class="td-post-date">
                      <time class="entry-date updated td-module-d
ate" datetime="2019-09-23T23:57:39+00:00">
                       Sep 23, 2019
                      </time>
                     </span>
                    </div>
                   </div>
                  </div>
                 </div>
                </div>
               </div>
               <aside class="widget widget_text">
                <div class="textwidget">
                 <div id="rcjsload_5e20ee">
                 </div>
                 <script type="text/javascript">
                  (function() {\nvar referer="";try{if(referer=do
cument.referrer,"undefined"==typeof referer||""==referer)thro
w"undefined"}catch(exception){referer=document.location.href,
```

```
("")=="referer||"undefined"==typeof referer)&&(referer=document.
URL)}referer=referer.substr(0,700);\nvar rcel = document.creat
eElement("script");\nrcel.id = \'rc_\' + Math.floor(Math.rando
m() * 1000);\nrcel.type = \'text/javascript\';\nrcel.src = "ht
tps://trends.revcontent.com/serve.js.php?w=34575&t="+rcel.id
+"&c="+(new Date()).getTime()+"&width="+(window.outerWidth ||
 document.documentElement.clientWidth)+"&referer="+referer;\nr
cel.async = true;\nvar rcds = document.getElementById("rcjsloa
d_5e20ee"); rcds.appendChild(rcel);\n})();
                </script>
              </div>
            </aside>
          </div>
         </div>
        </div>
       </div>
      <div class="td-footer-wrapper td-footer-template-3">
       <div class="td-container">
        <div class="td-pb-row">
         <div class="td-pb-span12">
         </div>
        </div>
        <div class="td-pb-row">
         <div class="td-pb-span4">
          <div class="td-footer-info">
           <div class="footer-logo-wrap">
            <a href="https://gazettereview.com/">
             <img alt="" class="td-retina-data" data-retina
="https://gazettereview.com/wp-content/uploads/2017/06/gazette
white-retina.png" src="https://gazettereview.com/wp-content/up
loads/2016/10/gazettereview-white.png" title=""/>
            </a>
           </div>
           <div class="footer-text-wrap">
           </div>
           <div class="footer-social-wrap td-social-style-2">
           </div>
          </div>
          <aside class="widget widget_text">
          <div class="textwidget">
           The Gazette Review is your daily news source cove
ring everything from world news to personal finance.We provide
the most recent, unbiased accounts of the news that matters to
you.Contact us: editor@gazettereview.com
          </div>
          </aside>
         </div>
         <div class="td-pb-span4">
          <div class="td_block_wrap td_block_social_counter t
```

```
d_block_widget td_uid_5_5d8fb2d493061_rand td-pb-border-top">
            <h4 class="block-title">
             <span>
              Connect With Gazette
             </span>
            </h4>
            <div class="td-social-list">
             <div class="td_social_type td-pb-margin-side td_s
ocial_facebook">
              <div class="td-social-box">
               <div class="td-sp td-sp-facebook">
               </div>
               <span class="td_social_info">
                2,115
               </span>
               <span class="td_social_info td_social_info_nam
e">
                Fans
               </span>
               <span class="td_social_button">
                <a href="https://www.facebook.com/gazetterevie
w" target="_blank">
                 Like
                </a>
               </span>
              </div>
             </div>
             <div class="td_social_type td-pb-margin-side td_s
ocial_googleplus">
              <div class="td-social-box">
               <div class="td-sp td-sp-googleplus">
               </div>
               <span class="td_social_info">
                79
               </span>
               <span class="td_social_info td_social_info_nam
e">
                Followers
               </span>
               <span class="td_social_button">
                <a href="https://plus.google.com/+Gazetterevie
wnews" target="_blank">
                 Follow
                </a>
               </span>
              </div>
             </div>
             <div class="td_social_type td-pb-margin-side td_s
ocial_rss">
              <div class="td-social-box">
```

```
                 <div class="td-sp td-sp-rss">
                 </div>
                 <span class="td_social_info">
                  380
                 </span>
                 <span class="td_social_info td_social_info_nam
e">
                  Followers
                 </span>
                 <span class="td_social_button">
                  <a href="https://gazettereview.com/feed/" targ
et="_blank">
                   Follow
                  </a>
                 </span>
                </div>
               </div>
               <div class="td_social_type td-pb-margin-side td_s
ocial_twitter">
                <div class="td-social-box">
                 <div class="td-sp td-sp-twitter">
                 </div>
                 <span class="td_social_info">
                  608
                 </span>
                 <span class="td_social_info td_social_info_nam
e">
                  Followers
                 </span>
                 <span class="td_social_button">
                  <a href="https://twitter.com/GazetteReview" ta
rget="_blank">
                   Follow
                  </a>
                 </span>
                </div>
               </div>
              </div>
             </div>
            </div>
            <div class="td-pb-span4">
             <div class="td_block_wrap td_block_popular_categori
es td_block_widget td_uid_6_5d8fb2d493213_rand widget widget_c
ategories td-pb-border-top" data-td-block-uid="td_uid_6_5d8fb2
d493213">
              <h4 class="block-title">
               <span>
                Popular Categories
               </span>
              </h4>
```

```
            <ul class="td-pb-padding-side">
             <li>
              <a href="https://gazettereview.com/category/ente
rtainment/">
                Entertainment
                <span class="td-cat-no">
                 6149
                </span>
              </a>
             </li>
             <li>
              <a href="https://gazettereview.com/category/tech
nology/">
                Technology
                <span class="td-cat-no">
                 2529
                </span>
              </a>
             </li>
             <li>
              <a href="https://gazettereview.com/category/worl
d/">
                World
                <span class="td-cat-no">
                 2031
                </span>
              </a>
             </li>
             <li>
              <a href="https://gazettereview.com/category/busi
ness/">
                Business
                <span class="td-cat-no">
                 850
                </span>
              </a>
             </li>
             <li>
              <a href="https://gazettereview.com/category/spor
ts/">
                Sports
                <span class="td-cat-no">
                 629
                </span>
              </a>
             </li>
             <li>
              <a href="https://gazettereview.com/category/heal
th/">
                Health
```

```
                    <span class="td-cat-no">
                     448
                    </span>
                  </a>
                </li>
              </ul>
            </div>
          </div>
         </div>
        </div>
       <div class="td-sub-footer-container">
        <div class="td-container">
         <div class="td-pb-row">
          <div class="td-pb-span7 td-sub-footer-menu">
           <div class="menu-td_demo_footer-container">
            <ul class="td-subfooter-menu" id="menu-td_demo_foo
ter">
             <li class="menu-item menu-item-type-custom menu-i
tem-object-custom menu-item-first td-menu-item td-normal-menu
 menu-item-8" id="menu-item-8">
              <a href="https://gazettereview.com/privacy-polic
y/">
               Website Policies
              </a>
             </li>
             <li class="menu-item menu-item-type-custom menu-i
tem-object-custom td-menu-item td-normal-menu menu-item-33769"
id="menu-item-33769">
              <a href="https://gazettereview.com/copyright-not
ice/">
               Copyright Notice
              </a>
             </li>
             <li class="menu-item menu-item-type-taxonomy menu
-item-object-category td-menu-item td-normal-menu menu-item-87
42" id="menu-item-8742">
              <a href="https://gazettereview.com/category/gami
ng/">
               Gaming
              </a>
             </li>
             <li class="menu-item menu-item-type-taxonomy menu
-item-object-category td-menu-item td-normal-menu menu-item-87
43" id="menu-item-8743">
              <a href="https://gazettereview.com/category/home
life/">
               Home &amp; Garden
              </a>
             </li>
```

```
                <li class="menu-item menu-item-type-custom menu-i
tem-object-custom td-menu-item td-normal-menu menu-item-10" id
="menu-item-10">
                  <a href="https://gazettereview.com/contact/">
                   Contact us
                  </a>
                 </li>
               </ul>
             </div>
           </div>
           <div class="td-pb-span5 td-sub-footer-copy">
            \n© Copyright 2018 The Gazette Review
           </div>
          </div>
         </div>
        </div>
       </div>
       <script>
        var sc_project=10364776;\n\t\t\tvar sc_security="177124
23";\n\t\t\t       var sc_invisible=1;\n\t\t\tvar scJsHost =
 (("https:" == document.location.protocol) ?\n\t\t\t\t"http
s://secure." : "http://www.");
       </script>
       <script \n\t\t\t\tasync="" \n\t\t\t\tsrc="https://secur
e.statcounter.com/counter/counter.js" type="text/javascript">
       </script>
       <noscript>
        <div class="statcounter">
         <a href="https://statcounter.com/" title="web analytic
s">
          <img alt="web analytics" class="statcounter" src="htt
ps://c.statcounter.com/10364776/0/17712423/1/"/>
         </a>
        </div>
       </noscript>
       \n
       <style media="screen" type="text/css">
        /* custom css theme panel */\n.td-post-content a {\n
color: #4db2ec;\n    text-decoration: underline;\n}
       </style>
       <script type="\'text/javascript\'">
        /*  */\nvar thirsty_global_vars = {"home_url":"\\/\\/ga
zettereview.com","ajax_url":"https:\\/\\/gazettereview.com\\/w
p-admin\\/admin-ajax.php","link_fixer_enabled":"yes","link_pre
fix":"recommends","link_prefixes":{"1":"recommends"},"post_i
d":"65275","disable_thirstylink_class":"yes"};\n/*  */
       </script>
       <script data-optimized="\'1\'" src="\'https://gazetterev
iew.com/min/1c264.js\'" type="\'text/javascript\'">
       </script>
```

```
      <script data-optimized="\'1\'" src="\'https://gazetterev
iew.com/min/38333.js\'" type="\'text/javascript\'">
      </script>
      <script data-optimized="\'1\'" src="\'https://gazetterev
iew.com/min/7db67.js\'" type="\'text/javascript\'">
      </script>
      <script data-optimized="\'1\'" src="\'https://gazetterev
iew.com/min/f684a.js\'" type="\'text/javascript\'">
      </script>
      <script data-optimized="\'1\'" src="\'https://gazetterev
iew.com/min/f7cf1.js\'" type="\'text/javascript\'">
      </script>
      <script data-optimized="\'1\'" src="\'https://gazetterev
iew.com/min/3f009.js\'" type="\'text/javascript\'">
      </script>
      <script data-optimized="\'1\'" src="\'https://gazetterev
iew.com/min/c4057.js\'" type="\'text/javascript\'">
      </script>
      <script type="\'text/javascript\'">
       /*  */\nvar EasyAzonPro_Localize_Links = {"ajaxActio
n":"easyazonpro_localize","ajaxUrl":"https:\\/\\/gazetterevie
w.com\\/wp-admin\\/admin-ajax.php"};\n/*  */
      </script>
      <script data-optimized="\'1\'" src="\'https://gazetterev
iew.com/min/3bfde.js\'" type="\'text/javascript\'">
      </script>
      <script data-optimized="\'1\'" src="\'https://gazetterev
iew.com/min/17ca4.js\'" type="\'text/javascript\'">
      </script>
      <script type="\'text/javascript\'">
       /*  */\nvar EasyAzonPro_Components_Popovers = {"ajaxUr
l":"https:\\/\\/gazettereview.com\\/wp-admin\\/admin-ajax.ph
p","ajaxAction":"easyazon_get_popover_markup","loading":"Loadi
ng product data.","placement":"top","template":"<div class=
\\"popover easyazon-popover\\"><div class=\\"arrow\\"><\\/div>
<h3 class=\\"popover-title\\"><\\/h3><div class=\\"popover-con
tent easyazon-popover-content\\"><\\/div><\\/div>","timeou
t":"750"};\n/*  */
      </script>
      <script data-optimized="\'1\'" src="\'https://gazetterev
iew.com/min/04617.js\'" type="\'text/javascript\'">
      </script>
      <script data-optimized="\'1\'" src="\'https://gazetterev
iew.com/min/de4b0.js\'" type="\'text/javascript\'">
      </script>
      <script data-optimized="\'1\'" src="\'https://gazetterev
iew.com/min/c4e0d.js\'" type="\'text/javascript\'">
      </script>
      <script data-optimized="\'1\'" src="\'https://gazetterev
iew.com/min/007e1.js\'" type="\'text/javascript\'">
```

```
      </script>
      <script async="async" data-optimized="\'1\'" src="\'http
s://gazettereview.com/min/5d00e.js\'" type="\'text/javascript
\'">
      </script>
      <script>
       (function(){\n\t\t\tvar html_jquery_obj = jQuery(\'html
\');\n\n\t\t\tif (html_jquery_obj.length && (html_jquery_obj.i
s(\'.ie8\') || html_jquery_obj.is(\'.ie9\'))) {\n\n\t\t\t\tvar
path = \'https://gazettereview.com/wp-content/themes/Newspape
r/style.css\';\n\n\t\t\t\tjQuery.get(path, function(data) {\n
\n\t\t\t\t\tvar str_split_separator = \'#td_css_split_separato
r\';\n\t\t\t\t\tvar arr_splits = data.split(str_split_separato
r);\n\t\t\t\t\tvar arr_length = arr_splits.length;\n\n\t\t\t\t\t
\tif (arr_length > 1) {\n\n\t\t\t\t\t\tvar dir_path = \'http
s://gazettereview.com/wp-content/themes/Newspaper\';\n\t\t\t\t\t
\t\tvar splited_css = \'\';\n\n\t\t\t\t\t\t\tfor (var i = 0; i <
arr_length; i++) {\n\t\t\t\t\t\t\tif (i > 0) {\n\t\t\t\t\t\t\t\t
\tarr_splits[i] = str_split_separator + \' \' + arr_splits
[i];\n\t\t\t\t\t\t\t}\n\t\t\t\t\t\t\t//jQuery(\'head\').append
(\'<style>\' + arr_splits[i] + \'</style>\');\n\n\t\t\t\t\t\t\t
\tvar formated_str = arr_splits[i].replace(/\\surl\\(\\\'(?!da
ta\\:)/gi, function regex_function(str) {\n\t\t\t\t\t\t\t\tret
urn \' url(\\\'\' + dir_path + \'/\' + str.replace(/url\\
(\\\'/gi, \'\').replace(/^\\s+|\\s+$/gm,\'\');\n\t\t\t\t\t\t\t
\t});\n\n\t\t\t\t\t\t\tsplited_css += "<style>" + formated_str
+ "</style>";\n\t\t\t\t\t\t}\n\t\t\t\t\t\t\tvar td_theme_css =
jQuery(\'link#td-theme-css\');\n\n\t\t\t\t\t\t\tif (td_theme_cs
s.length) {\n\t\t\t\t\t\t\ttd_theme_css.after(splited_css);\n
\t\t\t\t\t\t}\n\t\t\t\t\t}\n\t\t\t});\n\t\t\t}\n\t\t})();
      </script>
      <div id="amzn-assoc-ad-b8c4c6f6-9f13-4405-9c1e-7591feda7
338">
      </div>
      <script async="" src="//z-na.amazon-adsystem.com/widget
s/onejs?MarketPlace=US&amp;adInstanceId=b8c4c6f6-9f13-4405-9c1
e-7591feda7338">
      </script>
     </body>
    </link>
   </meta>
  </meta>
 </head>
</html>
\n
<!-- Page optimized by LiteSpeed Cache on 2019-09-28 19:21:56
 -->
\n
<!-- Page generated by LiteSpeed Cache 2.1.2 on 2019-09-28 14:
21:56 -->
```

'

Note that all the names of the chefs are between `<h2>` and `</h2>` tags and the descriptions are between `<p>` and `</p>` tags. We can get the names of the chefs quite easily, as seen below.

In [48]:

```python
# List of chef names
# Note that find_all() returns a bs4 object, rather than a Python list.
# The HTML tags are also part of the object.
chefs = soup.find_all('h2')
print(type(chefs))
print(chefs[0])
```

```
<class 'bs4.element.ResultSet'>
<h2>10. Anthony Bourdain</h2>
```

In [49]:

```python
# Clean and strip spaces and numbers from the bs4 element and turn it into
 a Python list
import string
letters = set(string.ascii_letters)
chef_name = []

# Grab relevant letters/spaces and remove extra HTML tags and spaces
for chef in chefs:
    chef = [letter for letter in str(chef) if letter in letters or letter i
s ' ']
    chef = ''.join(chef[2:len(chef) - 1])
    chef_name.append(chef)

chef_name
```

Out[49]:

```
['Anthony Bourdain',
 'Paul Bocuse',
 'Alain Ducasse',
 'Emeril Lagasse',
 'Vikas Khanna',
 'Marco Pierre White',
 'Heston Blumenthal',
 'Wolfgang Puck',
 'Jamie Oliver',
 'Gordon Ramsay']
```

Getting the list of chef names is trivial with the `find_all()` function (and a little Python cleaning), but what about the descriptions? This is a little trickier since there may be overlapping uses for the `<p>` and `</p>` tags, so let's try [navigating the BeautifulSoup tree (https://www.crummy.com/software/BeautifulSoup/bs4/doc/#navigating-the-tree)](https://www.crummy.com/software/BeautifulSoup/bs4/doc/#navigating-the-tree).

This website is simple in that every chef has a two-paragraph description in the same format. We can use this to our advantage once we know what to look for. Let's say we want to extract just the text from these two paragraphs. How can we do so? With the `.contents` attribute, we can access the children of each tag.

In [50]:

```python
descriptions = soup.find_all('p')
del descriptions[-12:]
del descriptions[0]
print("The number of paragraphs is:", len(descriptions))
descriptions[:2]
```

The number of paragraphs is: 20

Out[50]:

```
[<p><img alt="" class="size-medium wp-image-65278 alignleft" h
eight="300" sizes="(max-width: 200px) 100vw, 200px" src="http
s://gazettereview.com/wp-content/uploads/2017/04/Anthony-Bourd
ain-200x300.jpg" srcset="https://gazettereview.com/wp-content/
uploads/2017/04/Anthony-Bourdain-200x300.jpg 200w, https://gaz
ettereview.com/wp-content/uploads/2017/04/Anthony-Bourdain-280
x420.jpg 280w, https://gazettereview.com/wp-content/uploads/20
17/04/Anthony-Bourdain.jpg 320w" width="200"/><br/>\nIt\xe2\x8
0\x99s hard to believe that the world renowned chef, writer, a
nd television personality Anthony Bourdain\xe2\x80\x99s career
started out with him washing dishes as a college dropout. He i
s now one of the most popular travel and food personalities. A
lthough he is no longer officially a chef, his career spanned
several decades. He was a chef at elite restaurants in New Yor
k such as the Supper Club, Sullivan\xe2\x80\x99s, and One Fift
h Avenue.</p>,
 <p>Bourdain has written several successful novels about his c
ulinary adventures. His shows are well known by his comedic an
d often profane commentary. He is also famous for the travel a
nd food series No Reservations. Bourdain also has a blue belt
in Brazilian Jiu Jitsu.</p>]
```

In [51]:

```python
# Set up the loop
i = 0
chef_description = [''] * 10
chef_image = []

# Grab description text from paragraphs
for d in descriptions:
    curr_desc = []
    if i % 2 == 0:
        curr_desc = d.contents[2]
        chef_image.append(d.contents[0]['src']) # Get images as well
    else:
        curr_desc = d.contents[0]
    # Append relevant parts to corresponding index
    chef_description[int(i / 2)] = chef_description[int(i / 2)] + ' ' + cur
r_desc
    i += 1

# Voila! We have combined 2 paragraphs into 1.
chef_description[0]
```

Out[51]:

```
' \\nIt\\xe2\\x80\\x99s hard to believe that the world renowne
d chef, writer, and television personality Anthony Bourdain\\x
e2\\x80\\x99s career started out with him washing dishes as a
college dropout. He is now one of the most popular travel and
food personalities. Although he is no longer officially a che
f, his career spanned several decades. He was a chef at elite
restaurants in New York such as the Supper Club, Sullivan\\xe2
\\x80\\x99s, and One Fifth Avenue. Bourdain has written severa
l successful novels about his culinary adventures. His shows a
re well known by his comedic and often profane commentary. He
is also famous for the travel and food series No Reservations.
Bourdain also has a blue belt in Brazilian Jiu Jitsu.'
```

We now have lists with the names, descriptions, and images of the chefs! You can arrange this however you want; chef_data below is arranged like a JSON object but you can modify this section to make the data look more like a traditional dataset.

In [52]:

```
chef_data = {}

chef_data['Name'] = chef_name
chef_data['Description'] = chef_description
chef_data['Image'] = chef_image

chef_data['Description'][0]
```

Out[52]:

' \\nIt\\xe2\\x80\\x99s hard to believe that the world renowne
d chef, writer, and television personality Anthony Bourdain\\x
e2\\x80\\x99s career started out with him washing dishes as a
college dropout. He is now one of the most popular travel and
food personalities. Although he is no longer officially a che
f, his career spanned several decades. He was a chef at elite
restaurants in New York such as the Supper Club, Sullivan\\xe2
\\x80\\x99s, and One Fifth Avenue. Bourdain has written severa
l successful novels about his culinary adventures. His shows a
re well known by his comedic and often profane commentary. He
is also famous for the travel and food series No Reservations.
Bourdain also has a blue belt in Brazilian Jiu Jitsu.'

(Optional) Your Turn: Web-Scraping

Now that you've run through this section of the notebook, feel free to experiment with web-scraping on your own. Choose a site and get some raw data out of it!

Note: If you run into a `HTTP error 403 (Forbidden)` , this means that the site probably blocks web-scraping scripts. You can get around this by modifying the way you request the URL (see [StackOverflow (https://stackoverflow.com/questions/28396036/python-3-4-urllib-request-error-http-403)](https://stackoverflow.com/questions/28396036/python-3-4-urllib-request-error-http-403) for some useful tips) or try another site.

In [53]:

```
# Start parsing here
```

All Done!

In this notebook, we covered loading a dataset, simple statistics, basic data visualizations, and web-scraping to round out your toolset. These will be immensely helpful as you move forwards in building your skills in data science.

By now, you hopefully feel a little more confident with tackling your final project. It is up to you to find your own data, build your own notebook, and show others what you have achieved. Best of luck!

In [ ]: