

00 : 00 : 00 : 00

Why learn to work with Excel with Python? Excel is one of the most popular and widely-used data tools; it's hard to find an organization that doesn't work with it in some way. From analysts, to sales VPs, to CEOs, various professionals use Excel for both quick stats and serious data crunching.

With Excel being so pervasive, data professionals must be familiar with it. Working with data in Python or R offers serious advantages over Excel's UI, so finding a way to work with Excel using code is critical. Thankfully, there's a great tool already out there for using Excel with Python called pandas.

Pandas has excellent methods for reading all kinds of data from Excel files. You can also export your results from pandas back to Excel, if that's preferred by your intended audience. Pandas is great for other routine data analysis tasks, such as:

- quick Exploratory Data Analysis (EDA)
- drawing attractive plots
- feeding data into machine learning tools like scikit-learn
- building machine learning models on your data
- taking cleaned and processed data to any number of data tools

Pandas is better at automating data processing tasks than Excel, including processing Excel files.

In this tutorial, we are going to show you how to work with Excel files in pandas. We will cover the following concepts.

- setting up your computer with the necessary software
- reading in data from Excel files into pandas
- data exploration in pandas
- visualizing data in pandas using the matplotlib visualization library
- manipulating and reshaping data in pandas
- moving data from pandas into Excel

Note that this tutorial does not provide a deep dive into pandas. To explore pandas more, check out our course.

00:00:00:00 DAYS HOURS MINS SECS

- OpenPyXL read/write Excel 2010 xlsx/xlsm files
- pandas data import, clean-up, exploration, and analysis
- xlrd read Excel data
- xlwt write to Excel
- XlsxWriter write to Excel (xlsx) files

There are multiple ways to get set up with all the modules. We cover three of the most common scenarios below.

- If you have Python installed via Anaconda package manager, you can install the required modules using the command conda install. For example, to install pandas, you would execute the command conda install pandas.
- If you already have a regular, non-Anaconda Python installed on the computer, you can install the required modules using pip. Open your command line program and execute command pip install <module name> to install a module. You should replace <module name> with the actual name of the module you are trying to install. For example, to install pandas, you would execute command pip install pandas.
- If you don't have Python already installed, you should get it through the Anaconda package manager. Anaconda provides installers for Windows, Mac, and Linux Computers.
   If you choose the full installer, you will get all the modules you need, along with Python and pandas within a single package. This is the easiest and fastest way to get started.

#### The Data Set

In this tutorial, we will use a multi-sheet Excel file we created from Kaggle's IMDB Scores data. You can download the file here.

	A	В	C	D	E	F	G	H	I	-
1	Title	Year	Genres	Language	Country	Content R	Duration	Aspect Ra	Budget	( Î
2	127 Hours	2010	Adventure Biography Drama Thri	English	USA	R	94	1.85	18000000	Ξ
3	3 Backyards	2010	Drama	English	USA	R	88		300000	
4	3	2010	Comedy Drama Romance	German	Germany	Unrated	119	2.35		
5	8: The Mormon Proposition	2010	Documentary	English	USA	R	80	1.78	2500000	
6	A Turtle's Tale: Sammy's Adventures	2010	Adventure Animation Family	English	France	PG	88	2.35		
7	Alice in Wonderland	2010	Adventure Family Fantasy	English	USA	PG	108	1.85	200000000	
8	Alice in Wonderland	2010	Adventure Family Fantasy	English	USA	PG	108	1.85	200000000	
9	All Good Things	2010	Crime Drama Mystery Romance	English	USA	R	101	1.85		
10	Alpha and Omega	2010	Adventure Animation Comedy Fa	English	USA	PG	90	1.85	20000000	
11	Amigo	2010	Drama War	English	USA	R	124		1700000	
12	Anderson's Cross	2010	Comedy Drama Romance	English	USA	R	98		300000	
13	Animals United		Animation Comedy Family	German	Germany	PG	93	2 39		-
4	1900s 2000s 2010s ··· -	H		-   -					<b>→</b> [	



00 : 00 : 00 : 00

#### Read data from the Excel file

We need to first import the data from the Excel file into pandas. To do that, we start by importing the pandas module.

```
import pandas as pd
```

We then use the pandas' read\_excel method to read in data from the Excel file. The easiest way to call this method is to pass the file name. If no sheet name is specified then it will read the first sheet in the index (as shown below).

```
excel_file = 'movies.xls'
movies = pd.read_excel(excel_file)
```

Here, the read\_excel method read the data from the Excel file into a pandas DataFrame object. Pandas defaults to storing data in DataFrames. We then stored this DataFrame into a variable called movies.

Pandas has a built-in DataFrame.head() method that we can use to easily display the first few rows of our DataFrame. If no argument is passed, it will display first five rows. If a number is passed, it will display the equal number of rows from the top.

```
movies.head()
```



00:00:00:00

	the Ages							
1	Over the Hill to the Poorhouse	1920	Crime Drama	NaN	USA	NaN	110	1.33
2	The Big Parade	1925	Drama Romance War	NaN	USA	Not Rated	151	1.33
3	Metropolis	1927	Drama Sci-Fi	German	Germany	Not Rated	145	1.33
4	Pandora's Box	1929	Crime Drama Romance	German	Germany	Not Rated	110	1.33

5 rows × 25 columns

Excel files quite often have multiple sheets and the ability to read a specific sheet or all of them is very important. To make this easy, the pandas read\_excel method takes an argument called sheetname that tells pandas which sheet to read in the data from. For this, you can either use the sheet name or the sheet number. Sheet numbers start with zero. If the sheetname argument is not given, it defaults to zero and pandas will import the first sheet.

By default, pandas will automatically assign a numeric index or row label starting with zero. You may want to leave the default index as such if your data doesn't have a column with unique values that can serve as a better index. In case there is a column that you feel would serve as a better index, you can override the default behavior by setting index\_col property to a column. It takes a numeric value for setting a single column as index or a list of numeric values for creating a multi-index.

In the below code, we are choosing the first column, 'Title', as index (index=0) by passing zero to the index\_col argument.

movies\_sheet1 = pd.read\_excel(excel\_file, sheetname=0, index\_col=0)
movies\_sheet1.head()



00 : 00 : 00 : 00

Throughout the Ages							
Over the Hill to the Poorhouse	1920	Crime Drama	NaN	USA	NaN	110	1.33
The Big Parade	1925	Drama Romance War	NaN	USA	Not Rated	151	1.33
Metropolis	1927	Drama Sci-Fi	German	Germany	Not Rated	145	1.33
Pandora's Box	1929	Crime Drama Romance	German	Germany	Not Rated	110	1.33

5 rows × 24 columns

As you noticed above, our Excel data file has three sheets. We already read the first sheet in a DataFrame above. Now, using the same syntax, we will read in rest of the two sheets too.

movies\_sheet2 = pd.read\_excel(excel\_file, sheetname=1, index\_col=0)
movies\_sheet2.head()



00:00:00:00

28 Days	2000	Comedy Drama	English	USA	PG-13	103.0	1.37
3 Strikes	2000	Comedy	English	USA	R	82.0	1.85
Aberdeen	2000	Drama	English	UK	NaN	106.0	1.85
All the Pretty Horses	2000	Drama Romance Western	English	USA	PG-13	220.0	2.35

5 rows × 24 columns

movies\_sheet3 = pd.read\_excel(excel\_file, sheetname=2, index\_col=0)
movies\_sheet3.head()



00:00:00:00

3 Backyards	2010.0	Drama	English	USA	R	88.
3	2010.0	Comedy Drama Romance	German	Germany	Unrated	119
8: The Mormon Proposition		Documentary	English	USA	R	80.
A Turtle's Tale: Sammy's Adventures	2010.0	Adventure Animation Family	English	France	PG	88.

5 rows × 24 columns

Since all the three sheets have similar data but for different recordsmovies, we will create a single DataFrame from all the three DataFrames we created above. We will use the pandas concat method for this and pass in the names of the three DataFrames we just created and assign the results to a new DataFrame object, movies. By keeping the DataFrame name same as before, we are over-writing the previously created DataFrame.

```
movies = pd.concat([movies_sheet1, movies_sheet2, movies_sheet3])
```

We can check if this concatenation by checking the number of rows in the combined DataFrame by calling the method shape on it that will give us the number of rows and columns.

movies.shape

(5042, 24)



00:00:00:00

```
for sheet in xlsx.sheet_names:
    movies_sheets.append(xlsx.parse(sheet))
movies = pd.concat(movies_sheets)
```

If you are reading an Excel file with a lot of sheets and are creating a lot of DataFrames, ExcelFile is more convenient and efficient in comparison to read\_excel. With ExcelFile, you only need to pass the Excel file once, and then you can use it to get the DataFrames. When using read\_excel, you pass the Excel file every time and hence the file is loaded again for every sheet. This can be a huge performance drag if the Excel file has many sheets with a large number of rows.

#### **Exploring the data**

Now that we have read in the movies data set from our Excel file, we can start exploring it using pandas. A pandas DataFrame stores the data in a tabular format, just like the way Excel displays the data in a sheet. Pandas has a lot of built-in methods to explore the DataFrame we created from the Excel file we just read in.

We already introduced the method head in the previous section that displays few rows from the top from the DataFrame. Let's look at few more methods that come in handy while exploring the data set.

We can use the shape method to find out the number of rows and columns for the DataFrame.

movies.shape
(5042, 25)

This tells us our Excel file has 5042 records and 25 columns or observations. This can be useful in reporting the number of records and columns and comparing that with the source data set.



00 : 00 : 00 : 00

DAYS HOURS MINS SECS

	Title	Year	Genres	Language	Country	Co R
1599	War & Peace	NaN	Drama History Romance War	English	UK	TV.
1600	Wings	NaN	Comedy Drama	English	USA	Na
1601	Wolf Creek	NaN	Drama Horror Thriller	English	Australia	Na
1602	Wuthering Heights	NaN	Drama Romance	English	UK	Na
1603	Yu-Gi-Oh! Duel Monsters	NaN	Action Adventure Animation Family Fantasy	Japanese	Japan	Na

5 rows × 25 columns

In Excel, you're able to sort a sheet based on the values in one or more columns. In pandas, you can do the same thing with the sort\_values method. For example, let's sort our movies DataFrame based on the Gross Earnings column.

```
sorted_by_gross = movies.sort_values(['Gross Earnings'], ascending=False)
```

Since we have the data sorted by values in a column, we can do few interesting things with it. For example, we can display the top 10 movies by Gross Earnings.

```
sorted_by_gross["Gross Earnings"].head(10)
```



00:00:00:00

226 460935665.0 1183 458991599.0 618 448130642.0

Name: Gross Earnings, dtype: float64

We can also create a plot for the top 10 movies by Gross Earnings. Pandas makes it easy to visualize your data with plots and charts through matplotlib, a popular data visualization library. With a couple lines of code, you can start plotting. Moreover, matplotlib plots work well inside Jupyter Notebooks since you can displace the plots right under the code.

First, we import the matplotlib module and set matplotlib to display the plots right in the Jupyter Notebook.



00 : 00 : 00 : 00

pit.snow()

<img decoding="async" src="https://www.dataquest.io/wp-content/uploads/2019/01/pythonThis data visualization suggests that most of the IMDB Scores fall between six and eig
Getting statistical information about the data</pre>

Pandas has some very handy methods to look at the statistical data about our data set. movies.describe()

Year

Duration

Aspect Ratio

Budget

Gross Earnings

Facebook Likes - Director

Facebook Likes - Actor 1

Facebook Likes - Actor 2

Facebook Likes - Actor 3

Facebook Likes - cast Total

Facebook likes - Movie

Facenumber in posters

User Votes

Reviews by Users

Reviews by Crtiics

IMDB Score

count

4935,000000

5028.000000

4714.000000

4.551000e+03

4.159000e+03

4938.000000

5035.000000

5029.000000



00 : 00 : 00 : 00

#### mean

2002.470517

107.201074

2.220403

3.975262e+07

4.846841e+07

686.621709

6561.323932

1652.080533

645.009761

9700.959143

7527.457160

1.371446

8.368475e+04

272,770808

140.194272

6.442007

#### std

12,474599

25.197441

1.385113

2.061149e+08

6.845299e+07

2813.602405

15021.977635

4042.774685

1665.041728

18165.101925

19322.070537

2.013683

1.384940e+05

377.982886

121.601675

1.125189



00:00:00:00



0.000000

0.000000

0.000000

0.000000

0.000000

0.000000

5.000000e+00

1.000000

1.000000

1.600000

#### 25%

1999.000000

93.000000

1.850000

6.000000e+06

5.340988e+06

7.000000

614.500000

281.000000

133.000000

1411.250000 0.000000

0.000000

8.599250e+03

65.000000

50.000000

5.800000

#### 50%

2005.000000

103.000000

2.350000

2.000000e+07

2.551750e+07



00 : 00 : 00 : 00

156.000000

110.000000

6.600000

75%

2011.000000

118.000000

2.350000

4.500000e+07

6.230944e+07

194.750000

11000.000000

918.000000

636.000000

13758.750000

3000.000000

2.000000

9.634700e+04

326.000000

195.000000

7.200000

max

2016.000000

511.000000

16.000000

1.221550e+10

7.605058e+08

23000.000000

640000.000000

137000.000000

23000.000000

656730.000000

349000.000000

43.000000

1.689764e+06



00 : 00 : 00 : 00 DAYS | HOURS | MINS | SECS

the count or number of values mean standard deviation minimum, maximum 25%, 50%, and 75% quantile

Please note that this information will be calculated only for the numeric values. We can also use the corresponding method to access this information one at a time. For movies["Gross Earnings"].mean()

#### 48468407.526809327

0

5

Just like mean, there are methods available for each of the statistical information we Reading files with no header and skipping records

Earlier in this tutorial, we saw some ways to read a particular kind of Excel file that For example, look at the top few rows of this Excel file.<img decoding="async" src="ht" This file obviously has no header and first four rows are not actual records and hence movies\_skip\_rows = pd.read\_excel("movies-no-header-skip-rows.xls", header=None, skipromovies\_skip\_rows.head(5)



0

Metropolis

1927

Drama|Sci-Fi

German

Germany

Not Rated

145

1,33

6000000.0

26435.0

136

23

18.0 203

12000

1

111841

413

260.0

8.3

1

Pandora's Box

1929

Crime | Drama | Romance

German

Germany

Not Rated

110

1.33

NaN

9950.0

426

20



00 : 00 : 00 : 00

DAYS | HOURS | MINS | SECS

2

The Broadway Melody

1929

Musical|Romance

English

USA

Passed

100

1.37

379000.0

2808000.0

. . .

77 28

4.0

109

167

8

4546

71

36.0 6.3

3

Hell's Angels

1930

Drama|War

English

USA

Passed

96

1.20

3950000.0

NaN

. . .



00 : 00 : 00 : 00 DAYS | HOURS | MINS | SECS

35.0 7.8

4

A Farewell to Arms

1932

Drama|Romance|War

English

USA

Unrated

79

1.37

800000.0

NaN

. . .

998

164

99.0

1284

213

1

3519 46

42.0

6.6

5 rows × 25 columns

We skipped four rows from the sheet and used none of the rows as the header. Also, not The column names in the previous DataFrame are numeric and were allotted as default by movies\_skip\_rows.columns = ['Title', 'Year', 'Genres', 'Language', 'Country', 'Content movies\_skip\_rows.head()



00 : 00 : 00 : 00

# Budget Gross Earnings ... Facebook Likes - Actor 1 Facebook Likes - Actor 2 Facebook Likes - Actor 3 Facebook Likes - Cast Total Facebook likes - Movie Facenumber in posters User Votes Reviews by Users Reviews by Crtiics

# 0 Metropolis

ric ci opozz

IMDB Score

1927

Drama|Sci-Fi

German

Germany

Not Rated

145

1.33

6000000.0

26435.0

. . .

136

23

18.0

203

12000

1

111841

413

260.0



00 : 00 : 00 : 00

#### Germany

Not Rated

110

1.33

NaN

9950.0

. . .

426

20

3.0

455 926

1

7431

84

71.0

8.0

#### 2

The Broadway Melody

1929

Musical Romance

English

USA

Passed

100

1.37

379000.0

2808000.0

. . .

77

28

4.0

109

167

8

4546



00 : 00 : 00 : 00

#### Drama|War

English

USA

Passed

96

1.20

3950000.0

NaN

...

431 12

4.0

457

279

1

3753

53

35.0

7.8

#### 4

A Farewell to Arms

1932

Drama|Romance|War

English

USA

Unrated

79

1.37

#### 800000.0

NaN

. . .

998

164

99.0

1284

213



00 : 00 : 00 : 00

#### 5 rows × 25 columns

Now that we have seen how to read a subset of rows from the Excel file, we can learn how Reading a subset of columns

Although read\_excel defaults to reading and importing all columns, you can choose to in movies\_subset\_columns = pd.read\_excel(excel\_file, parse\_cols=6)

movies\_subset\_columns.head()

Title Year

Genres Language

Country

Content Rating

Duration

0

Intolerance: Love's Struggle Throughout the Ages

1916

Drama|History|War

NaN

USA

Not Rated

123

#### 1

Over the Hill to the Poorhouse

1920

Crime | Drama

NaN

USA

NaN



00 : 00 : 00 : 00

USA

Not Rated

151

3

Metropolis

1927

Drama|Sci-Fi

German

Germany

Not Rated

145

4

Pandora's Box

1929

Crime | Drama | Romance

German

Germany

Not Rated

110

Alternatively, you can pass in a list of numbers, which will let you import columns at Applying formulas on the columns

One of the much-used features of Excel is to apply formulas to create new columns from movies["Net Earnings"] = movies["Gross Earnings"] - movies["Budget"]

Above, we used pandas to create a new column called Net Earnings, and populated it wit Let's use the sort\_values method to sort the data by the new column we created and vis sorted\_movies = movies[['Net Earnings']].sort\_values(['Net Earnings'], ascending=[Fals plt.show()

<img decoding="async" src="https://www.dataquest.io/wp-content/uploads/2019/01/pythonPivot Table in pandas</pre>

Advanced Excel users also often use pivot tables. A pivot table summarizes the data of We need to first identify the column or columns that will serve as the index, and the



00 : 00 : 00 : 00

DAYS | HOURS | MINS | SECS

0 1916.0 NaN 1 1920.0 3000000.0 2 1925.0 NaN 3 1927.0 26435.0

1929.0 9950.0

We now call pivot\_table on this subset of data. The method pivot\_table takes a parametearnings\_by\_year = movies\_subset.pivot\_table(index=['Year'])
earnings\_by\_year.head()

00:00:00:00

1916.0

NaN

1920.0

3000000.0

1925.0

NaN

1927.0

26435.0

1929.0

1408975.0

This gave us a pivot table with grouping on Year and summarization on the sum of Gross We can use this pivot table to create some data visualizations. We can call the plot mearnings\_by\_year.plot()
plt.show()
<img decoding="async" src="https://www.dataquest.io/wp-content/uploads/2019/01/python-We saw how to pivot with a single column as the index. Things will get more interesting movies\_subset = movies[['Country', 'Language', 'Gross Earnings']]
movies\_subset.head()

Country
Language
Gross Earnings

00 : 00 : 00 : 00

1

USA

NaN

3000000.0

2

USA

NaN

NaN

3

Germany

German

26435.0

4

Germany

German

9950.0

We will use columns Country and Language as the index for the pivot table. We will use earnings\_by\_co\_lang = movies\_subset.pivot\_table(index=['Country', 'Language'])
earnings\_by\_co\_lang.head()

Gross Earnings

Country Language



00:00:00:00

Argentina Spanish

7.230936e+06

Aruba English

1.007614e+07

Australia Aboriginal

6.165429e+06

Dzongkha

5.052950e+05

Let's visualize this pivot table with a bar plot. Since there are still few hundred re earnings\_by\_co\_lang.head(20).plot(kind='bar', figsize=(20,8))
plt.show()
<img decoding="async" src="https://www.dataquest.io/wp-content/uploads/2019/01/python-Exporting the results to Excel

If you're going to be working with colleagues who use Excel, saving Excel files out of movies.to\_excel('output.xlsx')

By default, the index is also saved to the output file. However, sometimes the index domovies.head()

Title

Year

Genres



00 : 00 : 00 : 00

DAYS HOURS MINS SECS

Facebook Likes - Actor 2
Facebook Likes - Actor 3
Facebook Likes - cast Total
Facebook likes - Movie
Facenumber in posters
User Votes
Reviews by Users
Reviews by Crtiics
IMDB Score
Net Earnings

#### 0

Intolerance: Love's Struggle Throughout the Ages

#### 1916.0

Drama|History|War

NaN

USA

Not Rated

123.0

1.33

385907.0

NaN

. . .

22.0

9.0 481

691

69.

1.0 10718

10/10

88.0

69.0

8.0

NaN



00 : 00 : 00 : 00

# 1.33 100000.0 30000000.0 ... 2.0 0.0 4 0 1.0 5 1.0 1.0 4.8 2900000.0

1925.0

NaN USA Not Rated 151.0 1.33 245000.0

12.0 6.0 108 226 0.0 4849 45.0 48.0 8.3

Drama|Romance|War



00 : 00 : 00 : 00

Not Rated

145.0

1.33

6000000.0

26435.0

. . .

23.0

18.0

203

12000 1.0

111841

413.0

260.0

8.3

-5973565.0

4

Pandora's Box

1929.0

Crime | Drama | Romance

German

Germany

Not Rated

110.0

1.33

NaN

9950.0

. . .

20.0

3.0

455

926

1.0

7431 84.0

71.0



00 : 00 : 00 : 00

We need to be able to make our output files look nice before we can send it out to our We can do use these advanced output options by creating a ExcelWriter object and use t writer = pd.ExcelWriter('output.xlsx', engine='xlsxwriter') movies.to excel(writer, index=False, sheet name='report') workbook = writer.bookworksheet = writer.sheets['report'] We can apply customizations by calling add format on the workbook we are writing to. H header fmt = workbook.add format({'bold': True}) worksheet.set row(0, None, header fmt) Finally, we save the output file by calling the method save on the writer object. writer.save() As an example, we saved the data with column headers set as bold. And the saved file 1 <img decoding="async" src="https://www.dataquest.io/wp-content/uploads/2017/12/img-exc</pre> Like this, one can use XlsxWriter to apply various formatting to the output Excel file Conclusion Pandas is not a replacement for Excel. Both tools have their place in the data analysi On the other hand, Excel is a such a widely used data tool, it's not a wise to ignore If you'd like to learn more about this topic, check out Dataquest's interactive Pandas

#### PandasTutorials

```
<img alt='Harish Garg'</pre>
src='https://secure.gravatar.com/avatar/13d90a42a23ef24aa5d220ee3cd248ef?
s=128&d=mm&r=g'
srcset='https://secure.gravatar.com/avatar/13d90a42a23ef24aa5d220ee3cd248ef?
s=256&d=mm&r=g 2x' class='avatar avatar-128 photo rounded-circle'
height='128' width='128' decoding='async' data-eio="1" /> About the author
Harish Garg Entrepreneur, Technical Trainer, and Lead Software Developer with
extensive experience in Data Science, Python, Web, and Mobile Development.
Passionate about Data Science and Artificial Intelligence. More learning
resources How to Learn Excel Read more 9 Reasons Excel Users Should Consider
Learning Programming Read more
Learn data skills 10x faster <img class="avatar-xs avatar-circle"
src="https://www.dataquest.io/wp-content/themes/dq/assets/img/jessica_ko.webp"
alt="Headshot" loading="lazy" data-eio="l"> <img class="avatar-xs avatar-
circle" src="https://www.dataquest.io/wp-
content/themes/dq/assets/img/aaron_melton.webp" alt="Headshot" loading="lazy"
data-eio="l"> Join 1M+ learners Start Now Enroll for free
```



00:00:00:00 DAYS HOURS MINS SECS

For Educators About Dataquest Learner Stories Contact Us Partnership Programs Sitemap

a","LTS":null,"L":null,"LL":"F j, Y","LLL":"F j, Y g:i a","LLLL":null}} ); /\* ]]> \*/

```
Career Paths Data Scientist Data Engineer Data Analvst Python Data Analyst R Business
Analyst Power BI Business Analyst Tableau Junior Data Analyst Skill Paths SOL Courses AI
Courses Machine Learning Courses Deep Learning Courses Excel Courses Statistics Courses
Explore Course Catalog Projects Teaching Method Project-first Learning How to Learn Python
Sign In Start Free Dashboard Learning Path Catalog Full Catalog Career Paths Skill Paths
Individual Courses Data Science Projects Success Stories Resources Python Tutorials SQL
Tutorials Data Cleaning Tutorials NumPy, pandas, and Data Vis Tutorials Understanding Data
Roles Learning Resources For Teams /* <![CDATA[ */ var eio lazy vars =
{"exactdn_domain":"","skip_autoscale":0,"threshold":0}; /* ]]> */ /* <![CDATA[ */ var
wpilFrontend = {"ajaxUrl":"\/wp-admin\/admin-
ajax,php"."postId":"1995"."postType":"post","openInternalInNewTab":"1","openExternalInNewTab":"1","disableClicks":"0","openLinksWithJS":"0","trackAllElementClicks":"0","clicksI18n":
{"imageNoText":"Image in link: No Text", "imageText":"Image Title: ", "noText":"No Anchor
Text Found"}}; /* ]]> */ /* <![CDATA[ */ moment.updateLocale( 'en US', {"months":
["January","February","March","April","May","June","July","August","September","October","November","December"],"monthsShort":
["Jan","Feb","Mar","Apr","May","Jun","Jul","Aug","Sep","Oct","Nov","Dec"],"weekdays":
["Sunday","Monday","Tuesday","Wednesday","Thursday","Friday","Saturday"],"weekdaysShort":
["Sun","Mon","Tue","Wed","Thu","Fri","Sat"],"week":{"dow":1},"longDateFormat":{"LT":"g:i
```