

# Inland Empire Python User Group (IEPUG)



09/18/18 meeting

# IEPUG intro

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- who we are
- don't feel you need to stay the whole time
- introductions

## Sponsors:

Thanks to RiversideI/O & Excite for hosting our meetings

<http://www.riverside.io/en>: co-working space in downtown Riverside

<https://exciteriverside.org/>: a unique tech business acceleration program: created in collaboration between business leaders, the City and County of Riverside, and the University of California Riverside



# Publications

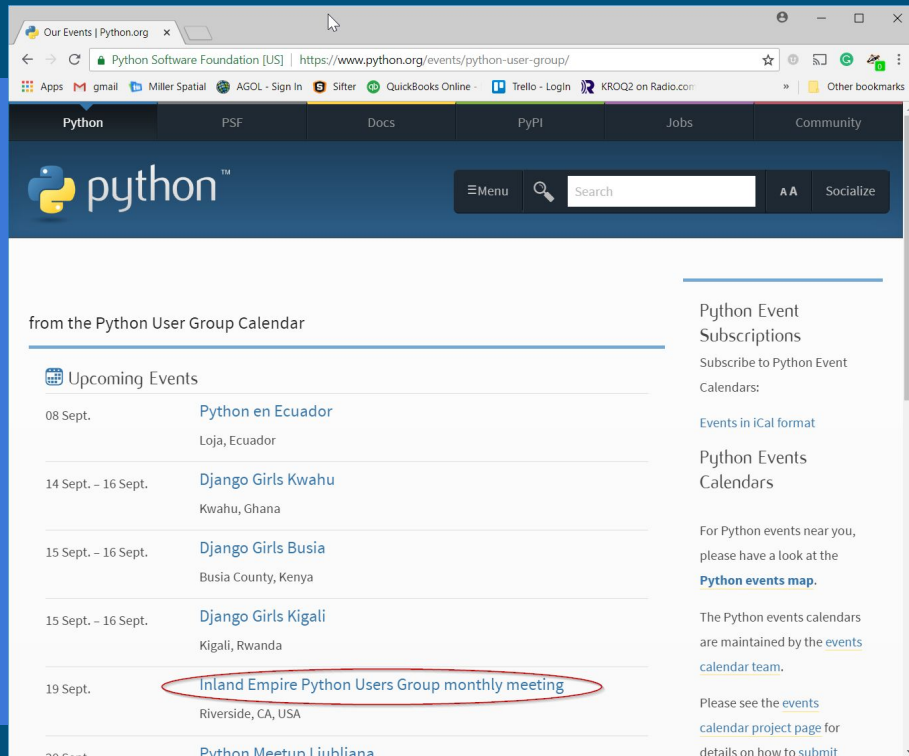
HelowWorld : [issue #6 available](#)  
a computing and digital making magazine  
for educators

(all issues available [here](#))



# Python User Group Calendar:

Got IEPUG listed on  
Python.org's User Group calendar listing



The screenshot shows the Python.org website's 'Our Events | Python.org' page. The browser address bar displays 'https://www.python.org/events/python-user-group/'. The page features a navigation bar with links to Python, PSF, Docs, PyPI, Jobs, and Community. Below the navigation bar is a search bar and a 'Menu' button. The main content area is titled 'from the Python User Group Calendar' and lists 'Upcoming Events'. The events listed are:

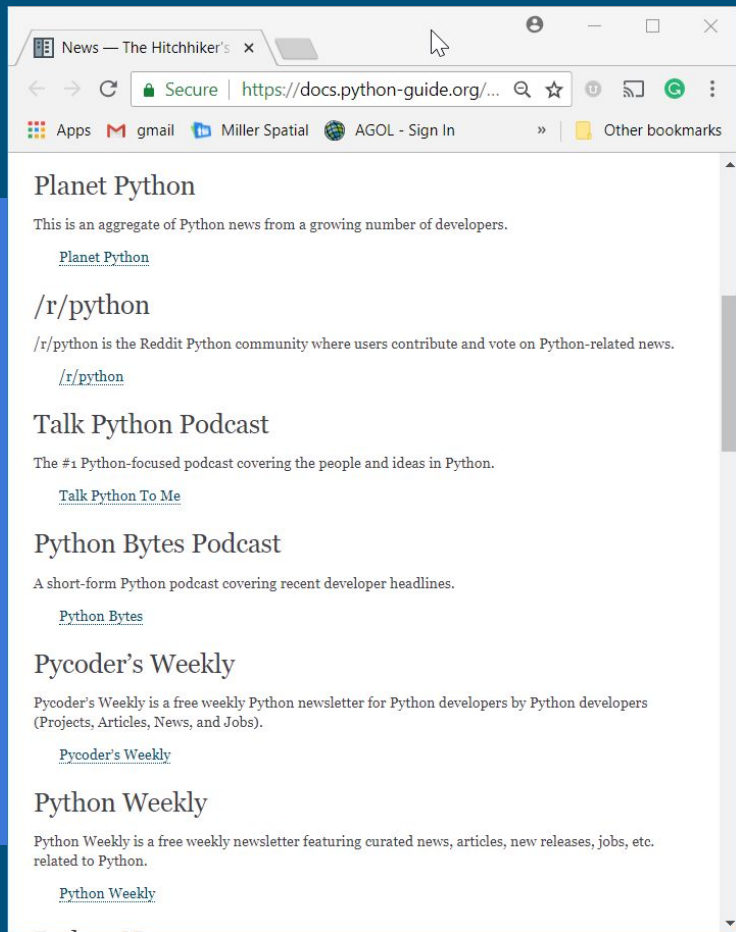
- 08 Sept. [Python en Ecuador](#) (Loja, Ecuador)
- 14 Sept. – 16 Sept. [Django Girls Kwahu](#) (Kwahu, Ghana)
- 15 Sept. – 16 Sept. [Django Girls Busia](#) (Busia County, Kenya)
- 15 Sept. – 16 Sept. [Django Girls Kigali](#) (Kigali, Rwanda)
- 19 Sept. [Inland Empire Python Users Group monthly meeting](#) (Riverside, CA, USA)
- 20 Sept. [Python Meetup Ljubljana](#)

On the right side of the page, there is a section for 'Python Event Subscriptions' with a link to 'Subscribe to Python Event Calendars:'. Below this, there is a link to 'Events in iCal format'. Further down, there is a section for 'Python Events Calendars' with a link to 'Python events map'. At the bottom, there is a link to 'events calendar team' and a link to 'calendar project page'.

# Python Podcast list:

## Python Podcast list

<https://docs.python-guide.org/intro/news/>



# Python resources:

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Python Software Foundation: <https://www.python.org/>

OCPython: US.CA.Orange County's Python Community Group

<https://www.meetup.com/OCPython/>

Pasadena Python Developers: <https://www.meetup.com/Pasadena-Python-Devs/>

San Diego Python Users Group: <https://www.meetup.com/pythonsd/>

SoCal Python: <https://www.meetup.com/socalpython/>

# Other groups:

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Other groups that meet at RiversideIO/Excite:

Riverside Raspberry (<https://www.meetup.com/Riverside-Raspberry/>)

Riverside Ruby User Group (<https://www.meetup.com/Riverside-Ruby-User-Group/>)

IE Wordpress (<https://www.meetup.com/inlandempirewp/>)

Other Tech MeetUps in the IE:

Inland Empire Tech Happy Hour (<https://www.meetup.com/ietechies/events/>)

SoCal IT Professional Association (<https://www.meetup.com/SoCalITPros/>)

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Riverside Ruby User Group (<https://www.meetup.com/Riverside-Ruby-User-Group/>)

IE Wordpress (<https://www.meetup.com/inlandempirewp/>)

StartupIE (<https://www.meetup.com/startupie/>)

Artificial Intelligence: Kick Ass Discussion in Action (<https://www.meetup.com/ArtificialIntelligencekickass/>)

Other Tech MeetUps in the IE:

Inland Empire Tech Happy Hour (<https://www.meetup.com/ietechies/events/>)

Other SoCal groups:

SoCal IT Professional Association (<https://www.meetup.com/SoCalITPros/>)



# This month's topic: Palindromes

A palindrome is a word, phrase, number, or other sequences of characters that reads the same backward as forward, e.g., "madam", "race car", or "nurses run".

The word "palindrome" was coined from the Greek roots palin ("again") and dromos ("way, direction") by the English writer Ben Jonson in the 17th century.

James Joyce coined the longest palindromic English word, tattarrattat, in his book Ulysses. In 1998, comedian Demetri Martin wrote a 224-word poem called "Dammit I'm Mad" written for his Fractal Geometry class. And English author David Stevens wrote an entire palindromic novel that was over 58,000 words long!



**TOO HOT TO HOOT**  
Hey—that's a  
**palindrome!**



# Palindrome Numbers

Numbers and dates can be palindromic

## Numeric Palindrome with 1's

$$1 \times 1 = 1$$

$$11 \times 11 = 121$$

$$111 \times 111 = 12321$$

$$1111 \times 1111 = 1234321$$

$$11111 \times 11111 = 123454321$$

$$111111 \times 111111 = 12345654321$$

$$1111111 \times 1111111 = 1234567654321$$

$$11111111 \times 11111111 = 123456787654321$$

$$111111111 \times 111111111 = 12345678987654321$$

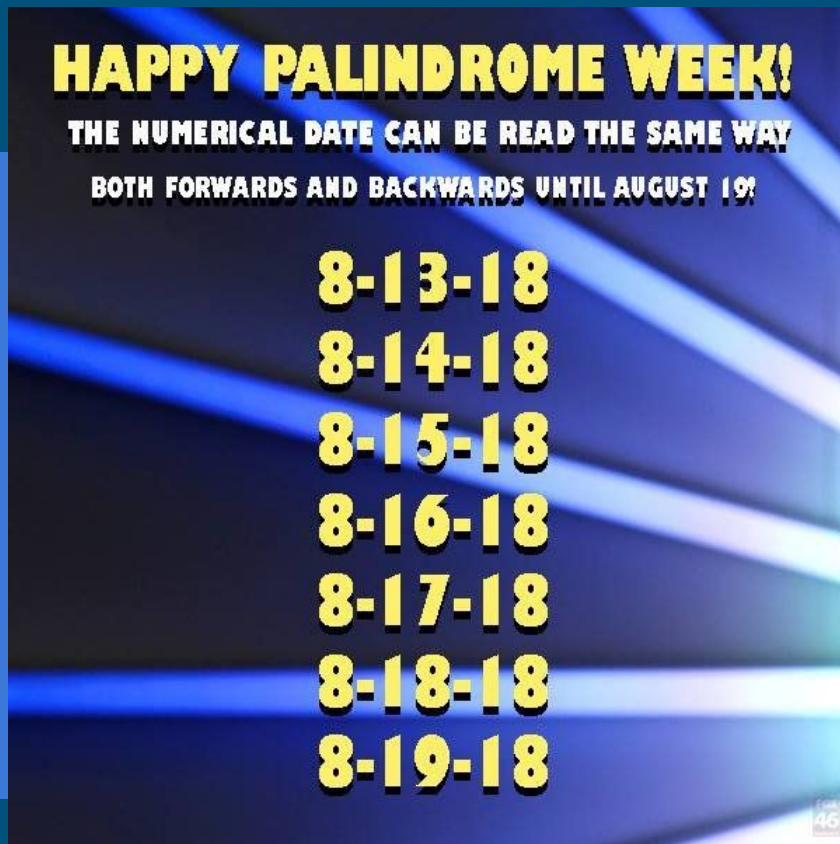
Primary Ideas for Teachers

# Palindrome week

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Should have done this topic last month.

But our meeting on 8/21 would have been just afterwards



# Programming challenge: Palindromes

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The challenge is to write Python code to determine if the supplied string is a palindrome; remember, spaces and punctuation need to be removed (alphanumeric characters only) and changing everything to one case will make it easier.

Here is a list of some:

this is not a palindrome (test case)

A man, a plan, a canal: Panama.

Borrow or rob?

Dammit, I'm mad.

Do geese see God?

Lisa Bonet ate no basil.

Never odd or even

Was it a car or a cat I saw?

Yo, banana boy!

(show code in Idle)

# Meeting notes I:

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More on **recursive functions**: <https://realpython.com/python-thinking-recursively/#recursive-functions-in-python>

**Learning to code Python resources**: here is the link to June's slides where we covered this topic:  
<https://www.meetup.com/iepython/events/246147344/>

**SoloLearn**: a free phone based learn to program application (<https://www.sololearn.com/>)

**SciPy**: is a Python-based ecosystem of open-source software for mathematics, science, and engineering  
(<https://scipy.org/>)

**NumPy**: is the fundamental package for scientific computing with Python (<http://www.numpy.org/>)

**Pandas**: is an open source library providing data structures and data analysis tools (<http://pandas.pydata.org/>)

**MicroPython**: is a lean and efficient implementation of the Python 3 programming language that includes a small subset of the Python standard library and is optimized to run on a microcontroller (<https://micropython.org/>)

# Meeting notes II:

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**6502 running Python on the 6502:** it look like the limited amount of memory on the 6502 (64K) is the thing keeping it from happening (<http://forum.6502.org/viewtopic.php?f=2&t=3392>) but it is available on its successor chip (65816): (<https://plus.google.com/108984290462000253857/posts/EEdjCJMDukW>)

The mention of Pandas reminded us of the 4/18/17 Python meeting where: member Anton Vasilescu who presented on his entry for the Titanic contest (<https://www.kaggle.com/c/titanic>)

The main library he used was Pandas (<http://pandas.pydata.org/>) but he also made use of the following ones:

**Jupyter:** a code presentation method, **Seaborn:** used for drawing graphs, **Numpy**, **Matplotlib**

Here is a link to his 'slides': <http://whoisav.com/item/titanic-machine-learning-disaster-kaggle-competition>

# Inland Empire Python User Group (IEPUG)



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