



Pykids – a community building and learning initiative



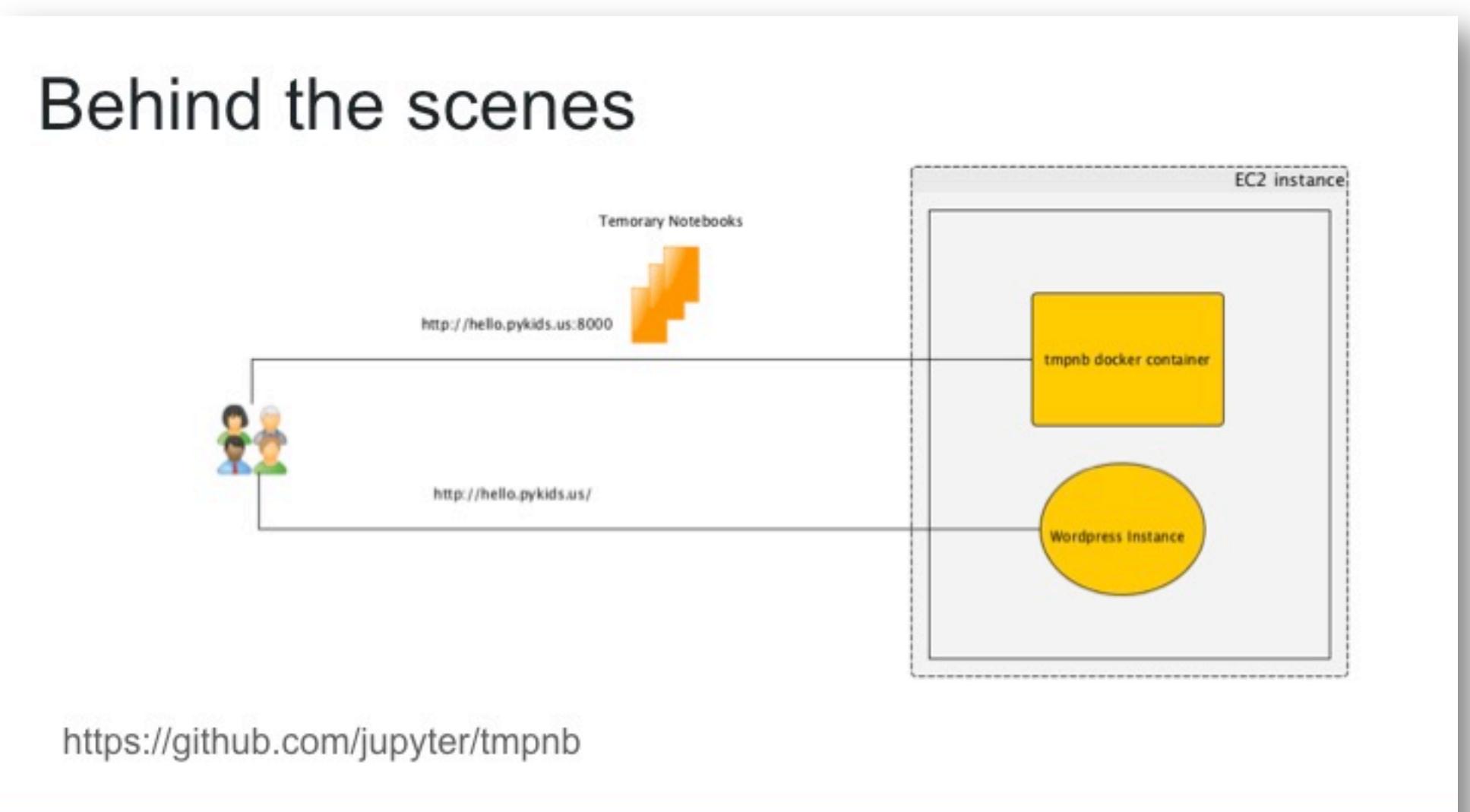
- Teach
- Communicate
- Accessible
- Community
- Share



Pykids

<http://pykids.readthedocs.io/en/latest/>

Not doing away with classroom learning – just making it easier !
Harnessing the power of jupyter and easily available resources
Out of class availability and a blog to communicate facilitates curious minds



pykids

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pykids

pykids is a voluntary effort to bring Python to elementary school (5th & 6th grades).

- Our blog is publicly available at <http://hello.pykids.us/>.
- Students can sign up and start using the jupyter notebooks (Python3) hosted at our server. They can save their notebooks to reuse later.
- They can sign up for local classes/meetups for instructor based learning via the blog.

What

- Scratch and turtle (K - 3)
- Python lessons - Jupyter notebooks (5th & 6th grades)

- Hello World python exercise
- Introduction to Jupyter notebook
- Calculator and simple math
- Creating name tags with strings
- Drawing
- Coloring grids
- Drawing graphs

AWS Lab server that provides access to notebooks + Based on <http://coderdojo.readthedocs.io/projects/python-minecraft/>

How

All students need a laptop and an internet connection. They can remotely access their notebooks and save their work to revisit later.

Contribute

- Issue Tracker: github.com/mpant/pykids/issues
- Source Code: github.com/mpant/pykids

Support

Volunteers needed to run local meetups/chapters!

License

The project is licensed under the Apache2 license.

Python Community Code of Conduct

The Python community is made up of members from around the globe with a diverse set of skills, personalities, and experiences. It is through these differences that our community experiences great successes and continued growth. When you're working with members of the community, we encourage you to follow these guidelines which help steer our interactions and strive to keep Python a positive, successful, and growing community.

A member of the Python community is:

Open

Members of the community are open to collaboration, whether it's on PEPs, patches, problems, or otherwise. We're receptive to constructive comment and criticism, as the experiences and skill sets of other members contribute to the whole of our efforts. We're accepting of all who wish to take part in our activities, fostering an environment where anyone can participate and everyone can make a difference.

Considerate

Members of the community are considerate of their peers – other Python users. We're thoughtful when addressing the efforts of others, keeping in mind that often times the labor was completed simply for the good of the community. We're attentive in our communications, whether in person or online, and we're tactful when approaching differing views.

Respectful

Meenal Pant

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Jupyter nbviewer

nbviewer.jupyter.org/github/mpant/pykids/blob/master/notebooks/python3/index.ipynb

jupyter nbviewer

Pykids Curriculum - [Read more here](#)

(Python for 5th and 6th graders)

- Class1 - Introduction and numbers
- Class2 - What's in a name
- Class3 - Art with Python
- Class4 - Blocks and grids

Introduction

- What is programming?
- Hello world!
- Simple calculator

Retrospective

Curious questions after the first class!

- Thanks Khan academy for the "programming video" - that is nicely explained!
- How do computers understand Python? How do they know the difference between C++ and Python languages?
- Who created all these languages - why are there so many?
- Using print(), prints things out but when I do not use print() just say 2+5 , I still get the answer - why? I did not ask the computer to print() - This led us into a discussion on "return statement". Can you guess the next question - what is the difference between a statement and a function (command) like print() ?
- help() is a hit - Children wanted to see what other "things" they can look up help on ? This led us to browsing through Python 3 docs!

In class notebooks

<https://github.com/mpant/pykids>

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39 commits 1 branch 0 releases 2 contributors Apache-2.0

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mpant-koi	ipythonblocks and making a chess board	Latest commit 99fafaa on Dec 30, 2016
notebooks	ipythonblocks and making a chess board	5 months ago
scratch	Adding lessons	11 months ago
turtle	Adding lessons	11 months ago
LICENSE	Initial commit	a year ago
README.md	Initial commit	a year ago
index.rst	Cleaning up the syllabus	7 months ago

pykids

Jupyter notebooks for elementary and middle schoolers

Develop more notebooks for kids
Develop physical computing curriculum

Current & Future

Student signups with beginning of school year
Workshops and tutorials in conferences, community centers