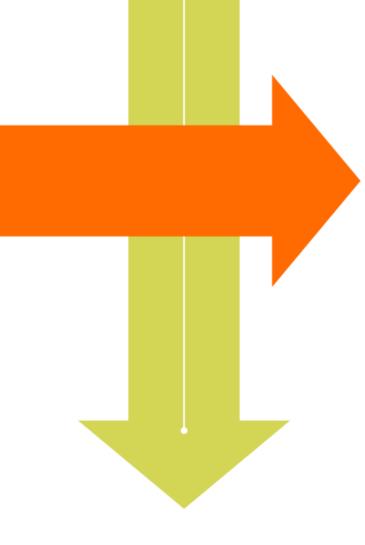




Data Services

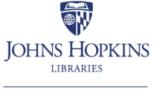
PyCon Education Summit May 12, 2021



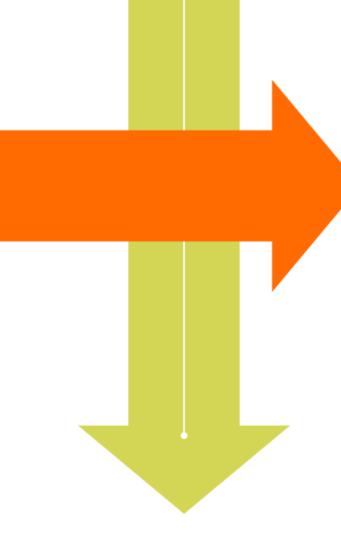
#### **Outline**

Our workshops

- Going virtual: Technology and workflow
- Attendee and instructor feedback



**Data Services** 





**JHU Data Services: Workshops** 

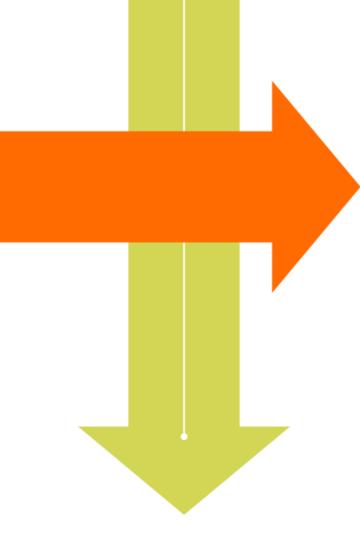
Introduction to Python for Absolute Beginners

- First offered in Fall 2019
- Run twice a semester
- 2.5 3 hours
- 40-50 attendees (average for webinars)
- Lecture and interactive coding

Workshops since March 2020

Python: 4

Total: 78

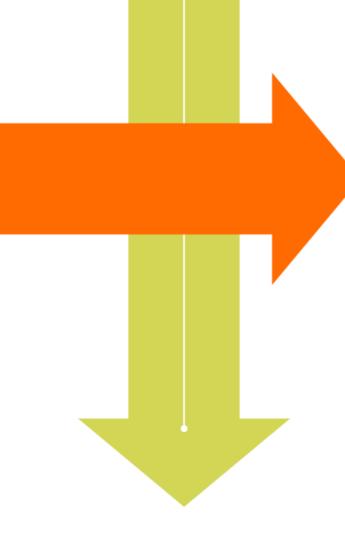




**Data Services** 

## **JHU Data Services: Workshop Attendees**

- Open to all Johns Hopkins University affiliates
- Common affiliations:
  - Staff
  - Graduate Students
- Common schools:
  - Medicine
  - Arts & Sciences
  - Public Health



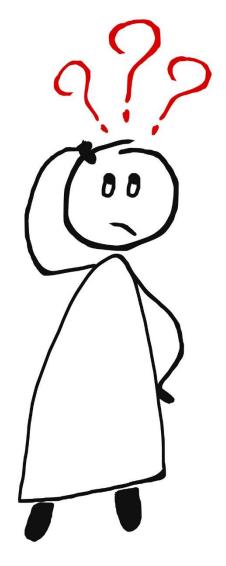


**Data Services** 

### **In-Person Setup**

- Controlled environment
- Provide laptops with required software
- Instructor has two display monitors
- TA's walk around the room

## **Virtual Setup**





**Data Services** 

# How can we minimize barriers to learning?

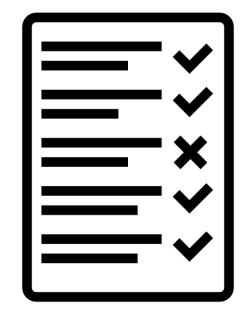
#### Where are our students?

 What technology do students have available to them?

 What skills or knowledge do students have?

 How much time do students have to prepare? What is the **minimum** technology/knowledge/time our students might have?





**Workflow** 



**Technology** 



## **Workflow Adaptations**

Provide materials in advance

• Set expectations with computer setup suggestions

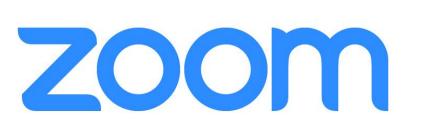
Varying workshop times

## Technology

• **Zoom** for presentation, chat, troubleshooting

• Poll Everywhere for additional interaction

• Replit.com for live coding



#### Zoom

- Familiar technology for attendees
- One session; no breakout rooms
- Use chat and breaks for troubleshooting and questions
- 1-2 assistants in every workshop
- Not great for sharing code, but sufficient for introductory class



□ Respond at PollEv.com/dataservices051

☐ Text DATASERVICES051 to 37607 once to join, then text your message

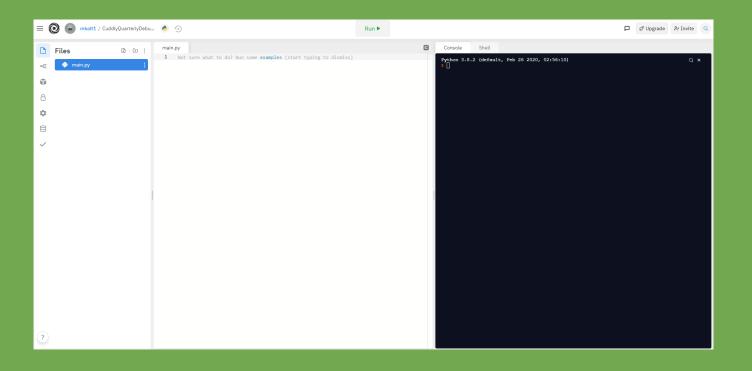
What programming languages or data analysis software do you use?



## **Poll Everywhere**

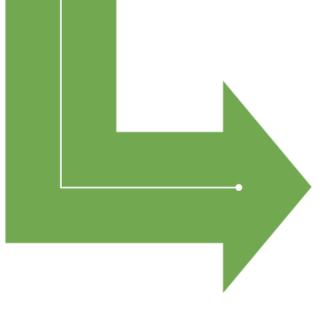
- Encourages participation
- Anonymous responses
- Question types beyond multiple choice
- Several options for use: computer, tablet, cell phone





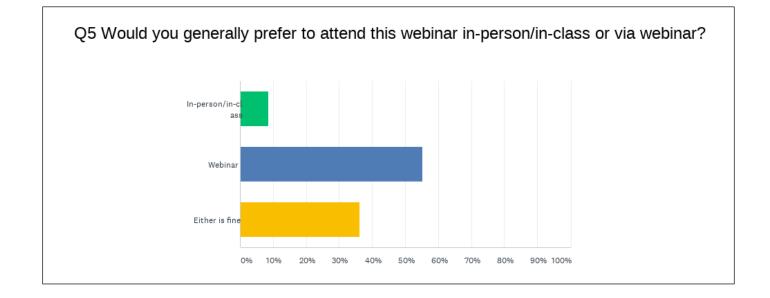
### Replit.com

- Full-featured, cloud-based IDE
- No downloads required
- Minimizes troubleshooting
- Requires login; offered pythonsandbox.com as alternative

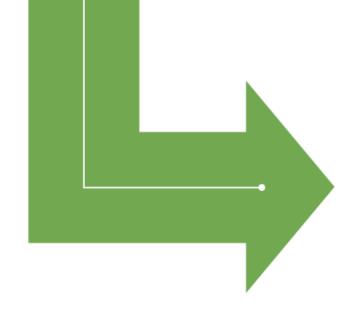


#### **Attendee Feedback**

- Most prefer webinar format
- Some liked web-based IDE, some wanted more on IDEs
  - Created IDE overview class on popular IDE features and comparisons







#### **Instructor Feedback**

- Plan to continue teaching online
- Larger class sizes, can reach more students
- Webinar interest and demand remains high



**Data Services** 

## Still working on...

Zoom fatigue

• Sharing longer, more complicated code

Accessibility of workshop materials and technology

• Sharing workshop materials – setting up GitHub repos!

## Thank you!

Marley Kalt

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Johns Hopkins University

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## Questions?

