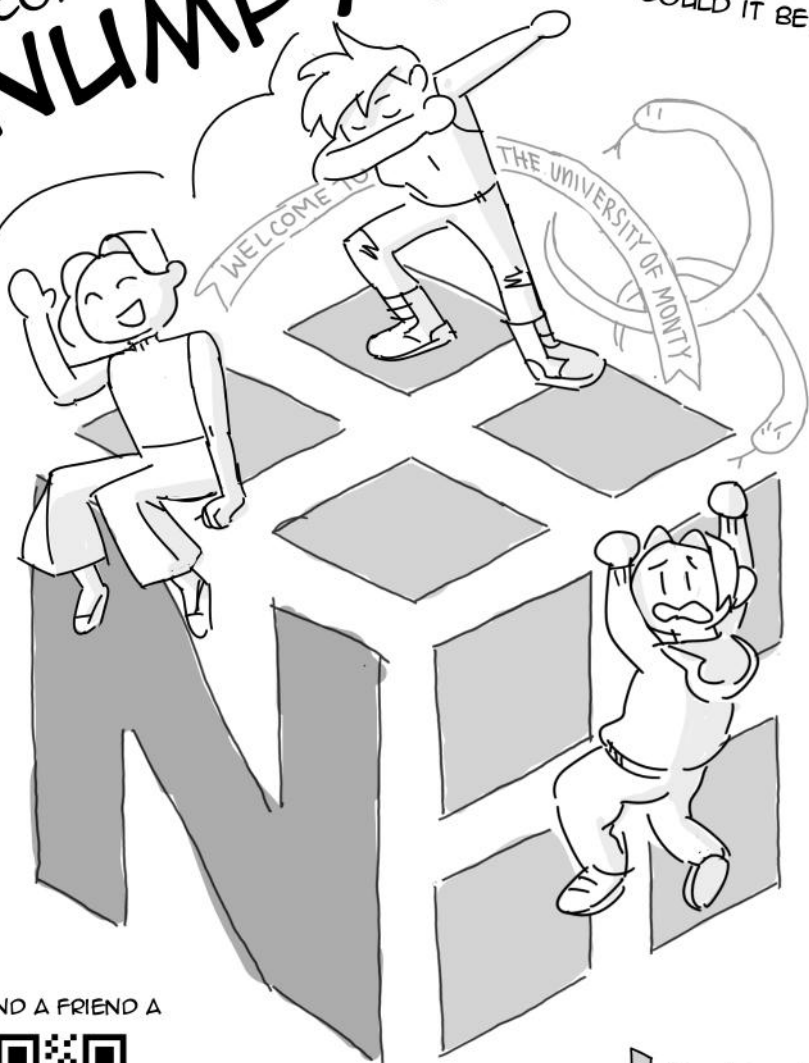


HOW TO CONTRIBUTE TO NUMPY

3 STUDENTS
2 MID-TERMS
1 OPEN SOURCE LIBRARY
HOW HARD COULD IT BE...?



SEND A FRIEND A

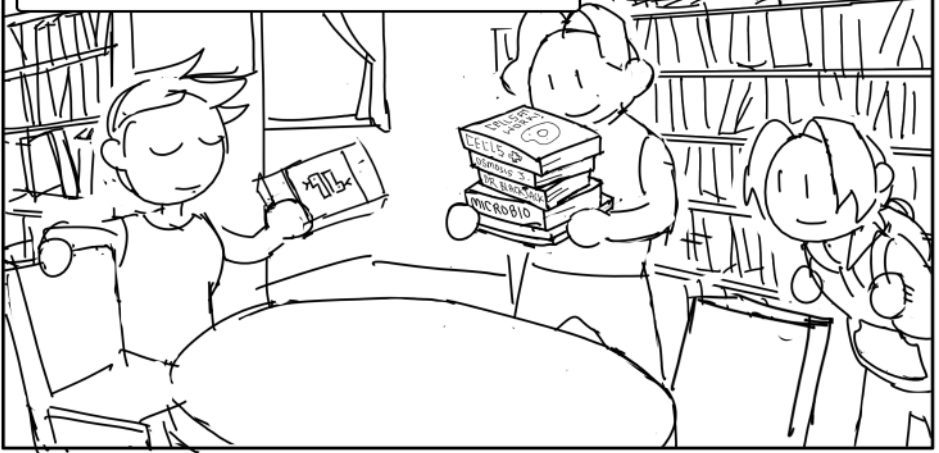


DIGITAL VERSION
OF THIS COMIC!

AUTHOR + ARTIST:
MARS LEE

 PyData
NYC 2023
edition

AT THE UNIVERSITY OF MONTY LIBRARY...



WHEW, I'M SO HAPPY WE'RE DONE WITH THE LAB CLASS.



BUUUUT WE'RE NOT DONE YET.



WE NEED TO LOOK AT THE CELL IMAGE DATA, RIGHT? WITH NUMPY?



YES... AND I HAVE NO IDEA HOW TO USE NUMPY. SO THANKS FOR MEETING AFTER CLASS TO HELP ME.

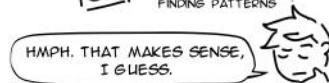
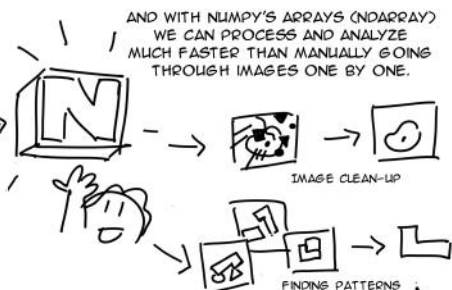
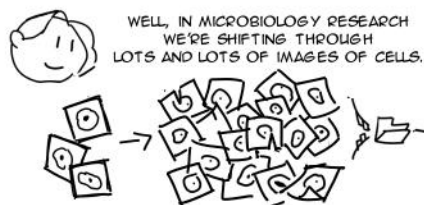
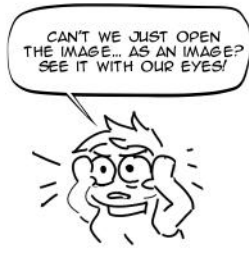
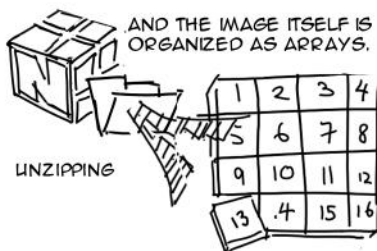
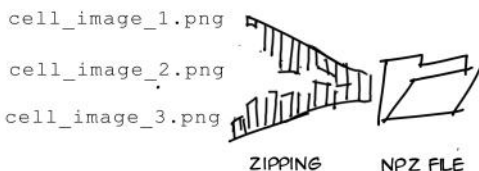
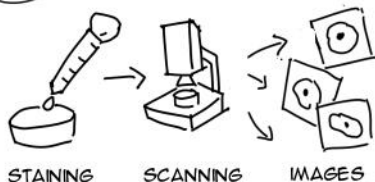


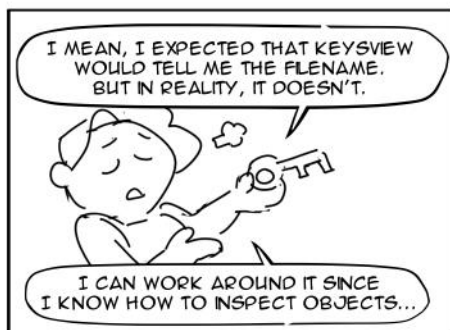
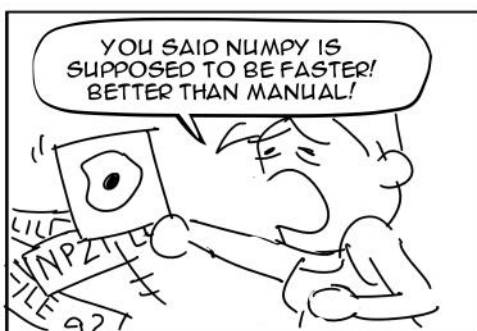
NO PROBLEM! WE'RE HAPPY TO HELP. I'VE PLAYED AROUND WITH NUMPY BEFORE IN A COMPUTER SCIENCE CLASS.

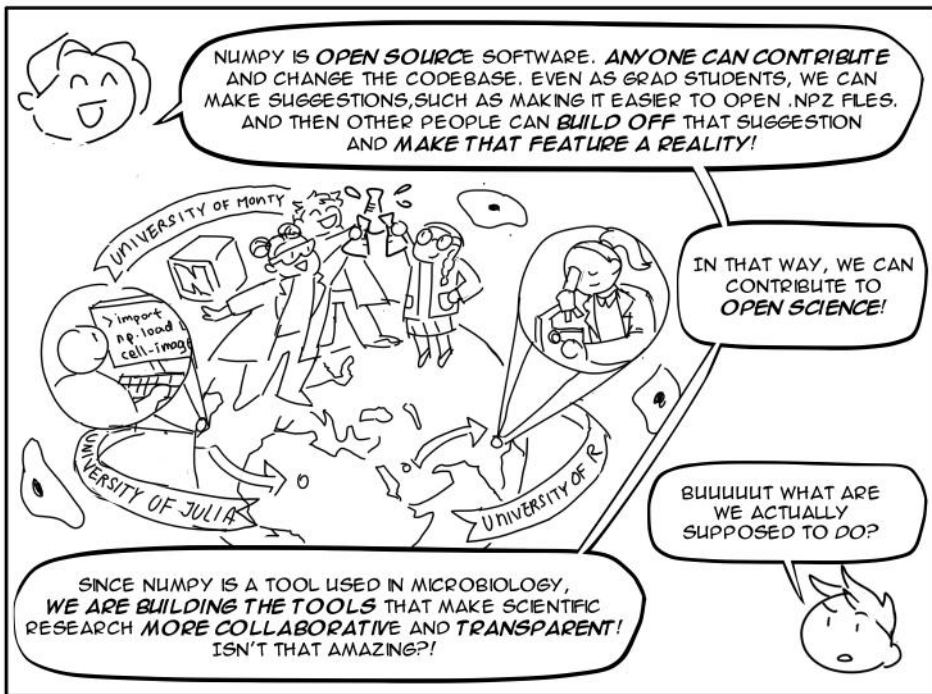





SO NOW ALL THE CELL IMAGE INFORMATION IS BUNDLED UP INTO A ZIPPED FILE. SO WE USE NUMPY TO EXTRACT THE FILE.








AT NUMPY.ORG Install Documentation  Contribute About

NumPy



NumPy 1.26.0 released

WELL, I'M LOOKING AT NUMPY.ORG AND UMM...

LET'S CLICK OVER HERE!

OPEN SOURCE

CONTRIBUTE TO NUMPY

The NumPy project welcomes your expertise and enthusiasm! Your choice below ~~is~~ many areas where we need **your** help.

here to start or how your skills fit in, *reach out!* You can ask on the [mailing list](#) or [GitHub](#) (want issue).

Those ~~are~~ but if you prefer to talk privately, contact our [NumPy team](#) at numpy-team@googlegroups.com for an invite.

We also ~~are~~ announced on the [mailing list](#). You are very welcome to join. If

NO, I'M PRETTY SURE WE CAN START WITH GITHUB. LET'S CLICK HERE.

THIS LOOKS COMPLICATED. A MAILING LIST, SLACK, COMMUNITY CALLS? TOO MUCH!

Github 

 numpy

< Code Issues 2k

File

Author → Labels → Milestones → Assignee → Sort →

...ay.reshape shape invalid keyword argument 04 - Documentation

#24934 opened 3 hours ago by ena1ms

ENH: can we have musl-aarch64 prebuilt binary as well? component: distribution

#24934 opened 2 days ago by tsuanhs

DOC: NumPy Logo SVG files rendered in dark by Figma 04 - Documentation

#24933 opened 3 days ago by iamirebiki

THERE WE GO! NOW WE'RE ON NUMPY'S GITHUB PAGE, WITH A LIST OF ISSUES.

New Issue

LET'S CREATE A NEW ISSUE HERE. WHAT WE WANT IS A FEATURE REQUEST.

Issue: Feature request



Proposed new feature or change: *

Submit New Issue

LET'S WRITE AN ISSUE.

Issue: Feature request

Show filenames in npz archive?

Proposed new feature or change: *

Hi, we're microbiology students using NumPy to look at our cell images

Hi, we're microbiology students using NumPy to look at our cell images



PROBLEM: We found it difficult to quickly see the filename in an npz file.

Example code:

```
>>> data = np.load("example.npz")
```

I expected that KeysView would tell me the filename. But it doesn't.

```
>>> list(data.keys())
```

```
['x', 'y']
```



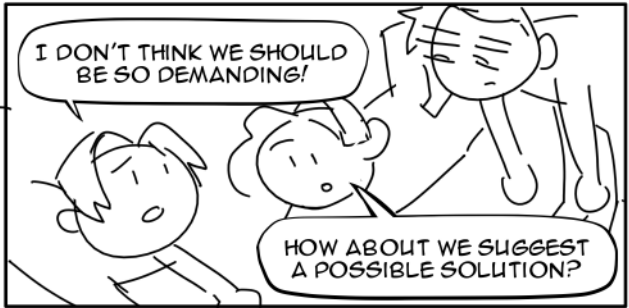
BUT I DON'T KNOW
HOW TO USE KEYS.



OH YEAH! LET ME ADD THAT PART...

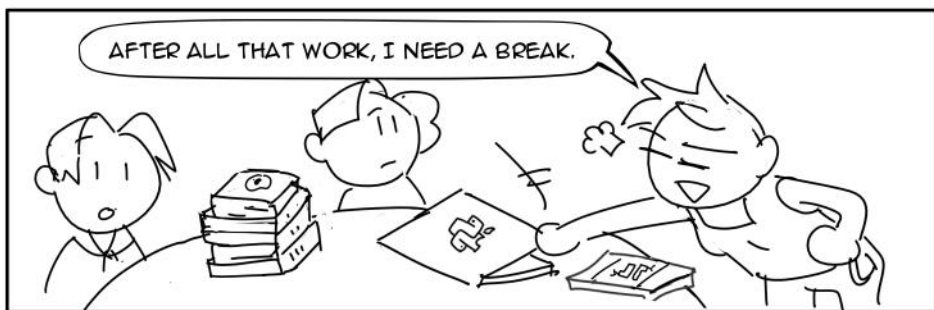
I can work around it, since I know how to inspect objects.

But my classmate doesn't.



POSSIBLE SOLUTION
Could the filenames be easier to see? Like right when you open an npz?





numpy

Code Issues 2k Pull requests 212 Actions

Show filenames in npz archive?

BioBooUwU

PROBLEM
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POSSIBLE SOLUTION
 Could the filenames be easier to see? Like right when you open an npz?

flyingCircus Maintainer
 +1. Thanks for the suggestion on improving the user experience.

cheeseSh0p Contributor
 I can help! This could be implemented by including explicit info about the keys in the NpzFile repr. I'll make a pull request.

Labels: 00 - Bug
 Projects: None yet
 Milestone:

SO THIS IS THE ISSUE WE MADE...

WOW, A MAINTAINER COMMENTED! AND SOMEONE ELSE...?

WHO ARE THESE PEOPLE?

WHAT ARE THEY SAYING?

DO WE NEED TO DO SOMETHING NOW?!

THE FIRST PERSON IS A NUMPY MAINTAINER.

THE MAINTAINER LEADS NUMPY BY COORDINATING WITH MANY PEOPLE TOWARDS THE BIG PICTURE.

THE SECOND PERSON IS A CONTRIBUTOR.

THEY WANT TO HELP! TO SOLVE OUR ISSUE BY MAKING A PULL REQUEST!

I CAN HELP!

TOGETHER, MAINTAINERS AND CONTRIBUTORS IMPLEMENT NEW FEATURES, FIX BUGS AND WRITE DOCUMENTATION TO MAKE NUMPY BETTER.

MAILING LIST SLACK NUMPY.ORG

PLAN
 1 = x
 2 = y
 3 = z

GITHUB.COM/NUMPY
 POST YOUR ISSUES HERE!

NPZ?




UH OH!

YOU'VE REACHED THE END OF THE COMIC!
ALAS IT IS NOT DONE YET-
WE HAVE 10/16 PAGES COMPLETED
FOR PYDATA NYC 2023.

TO CHECK OUT THE COMIC'S
FUTURE PAGES, GO TO
MARSBARLEE.COM



HERE'S THE QR CODE
TO GET THERE:



THESE FUTURE PAGES WILL EXCITE YOU WITH WONDERS SUCH AS:
- THE PULL REQUEST THAT IMPROVES HOW NPZ FILENAMES ARE HANDLED!
- FIXED TYPOS AND CORRECTIONS!
- HOW US STUDENTS WILL SURVIVE OUR MID-TERMS!

THANK YOU:

- GOOGLE SEASON OF DOCS, QUANSIGHT AND NUMFOCUS FOR THE GRANT THAT KICKSTARTED THESE COMICS
- MUKULIKA PAHARI AND ROSS BARNOWSKI FOR BEING AWESOME PROJECT MENTORS
- THE NUMPY COMMUNITY FOR YOUR CONTINUED SUPPORT

SUBSCRIBE TO THE **MARS COMIC UNIVERSE**



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@MARSBARLEE3

FOR MORE COMICS ON OPEN SOURCE
AND HACKERSPACE SHENANIGANS!



LINKEDIN.COM/IN/MARS-LEE/

EGREGIOUS CAMEO
OF THE ARTIST, MARS