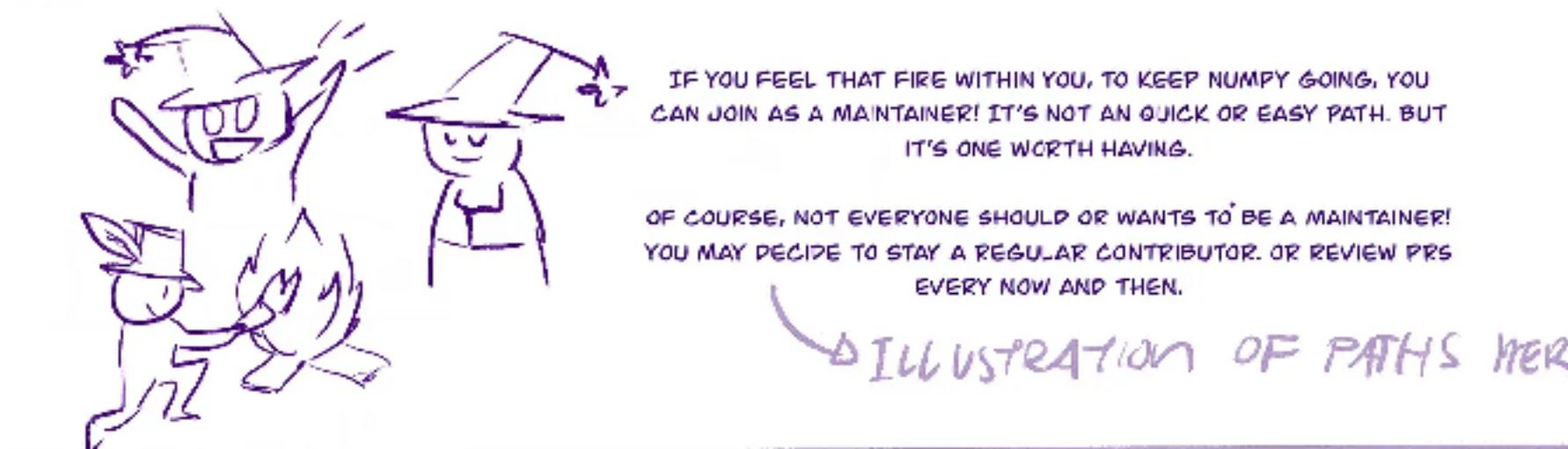
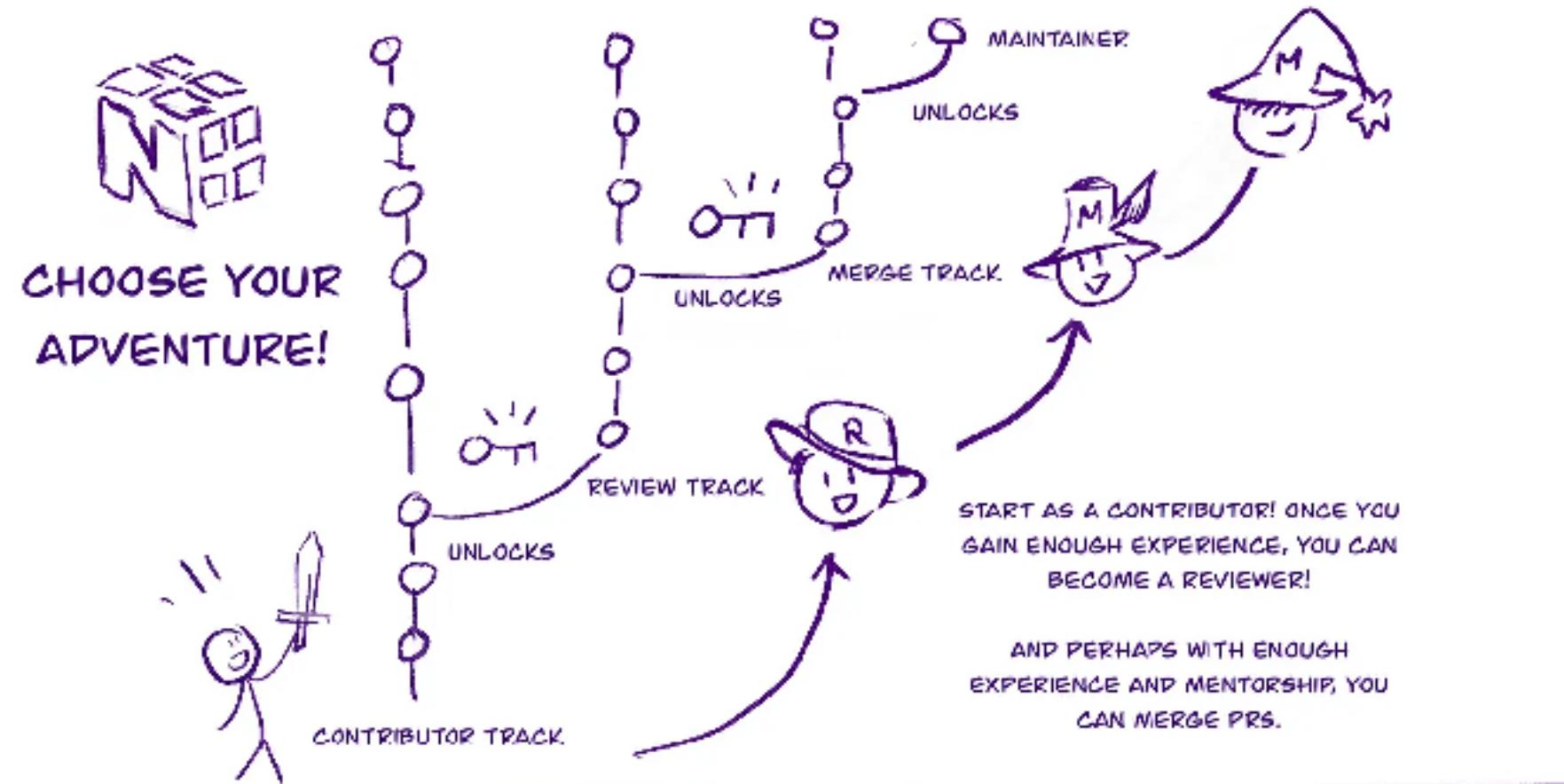


Prototype



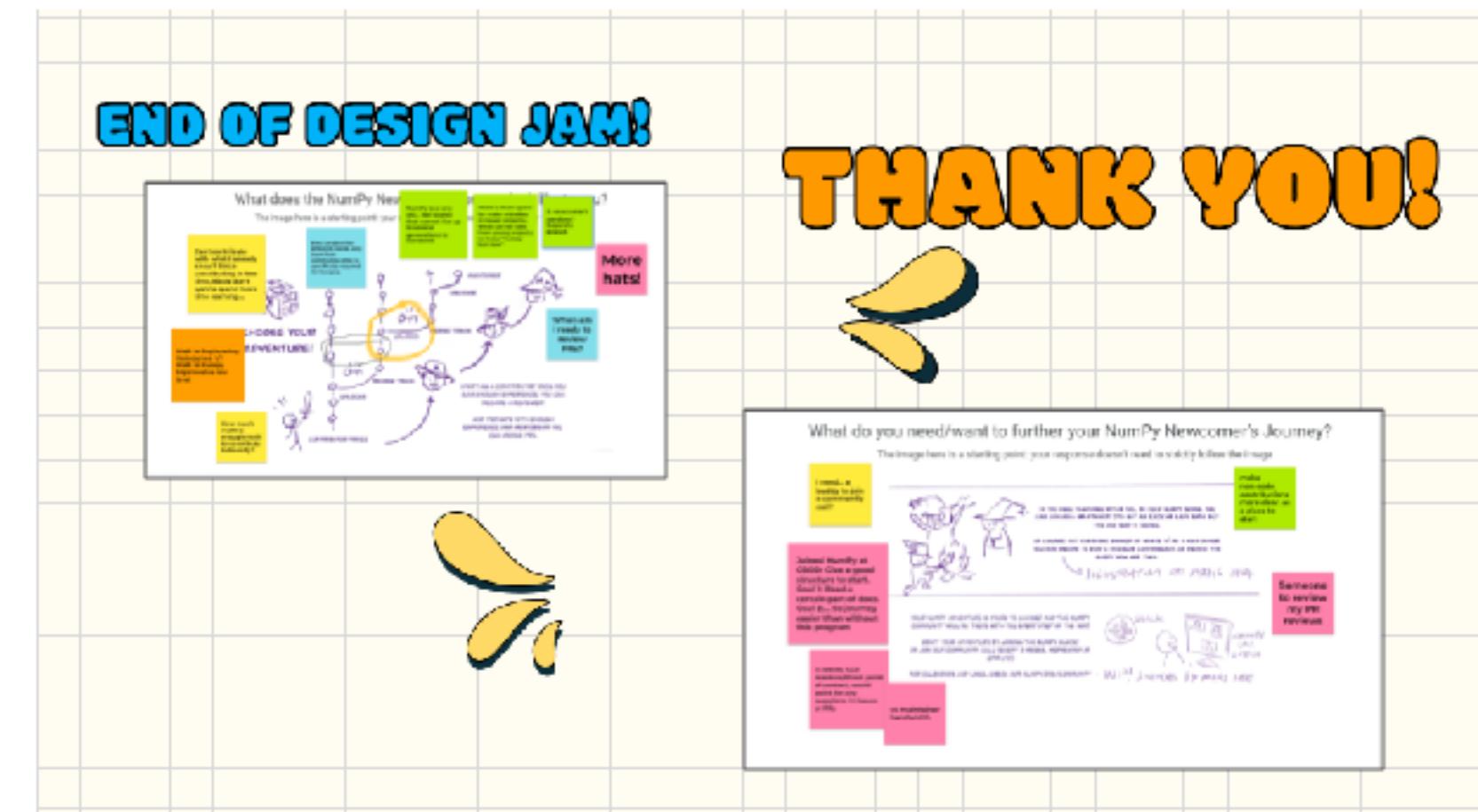
YOUR NUMPY ADVENTURE IS YOURS TO CHOOSE! AND THE NUMPY COMMUNITY WILL BE THERE WITH YOU EVERY STEP OF THE WAY!

START YOUR ADVENTURE BY JOINING THE NUMPY SLACK! OR JOIN OUR COMMUNITY CALL (EVERY 2 WEEKS, WEDNESDAY AT 6PM UTC)



FOR CALENDARS AND LINKS, CHECK OUT: [NUMPY.ORG/COMMUNITY](https://numpy.org/community) - WIP! SKETCHES BY MARS LEE

Shared in community meetings in Sept 2022



Problem

How to get people to contribute to NumPy?



How to celebrate first time reviewers?

When are reviewers ready to gain merge rights?

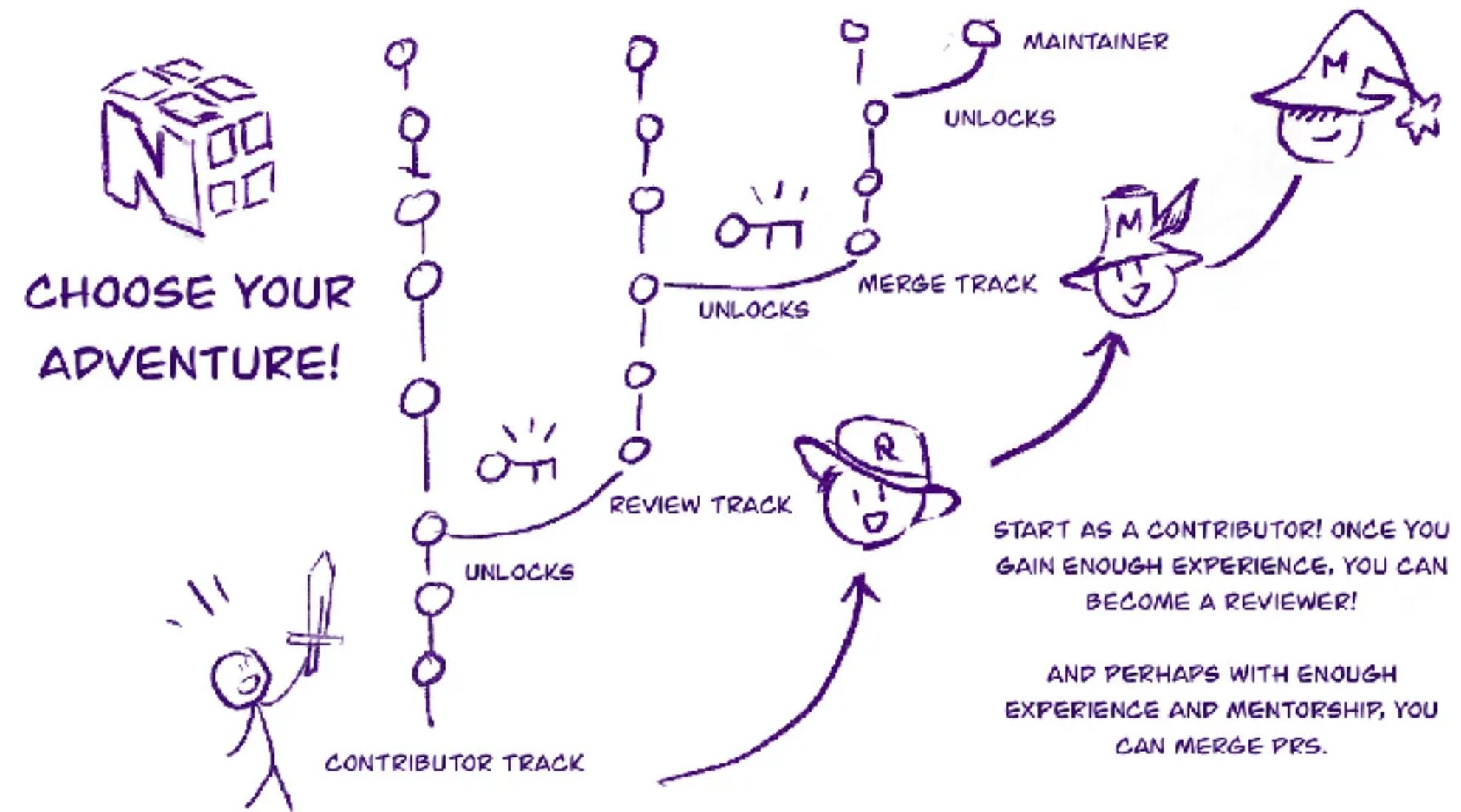
What experience do you need to triage issues?

What are some non-code contributions?



SUSTAINABILITY
How do we increase the number and variety of contributions to maintain long term health of project?

Solution



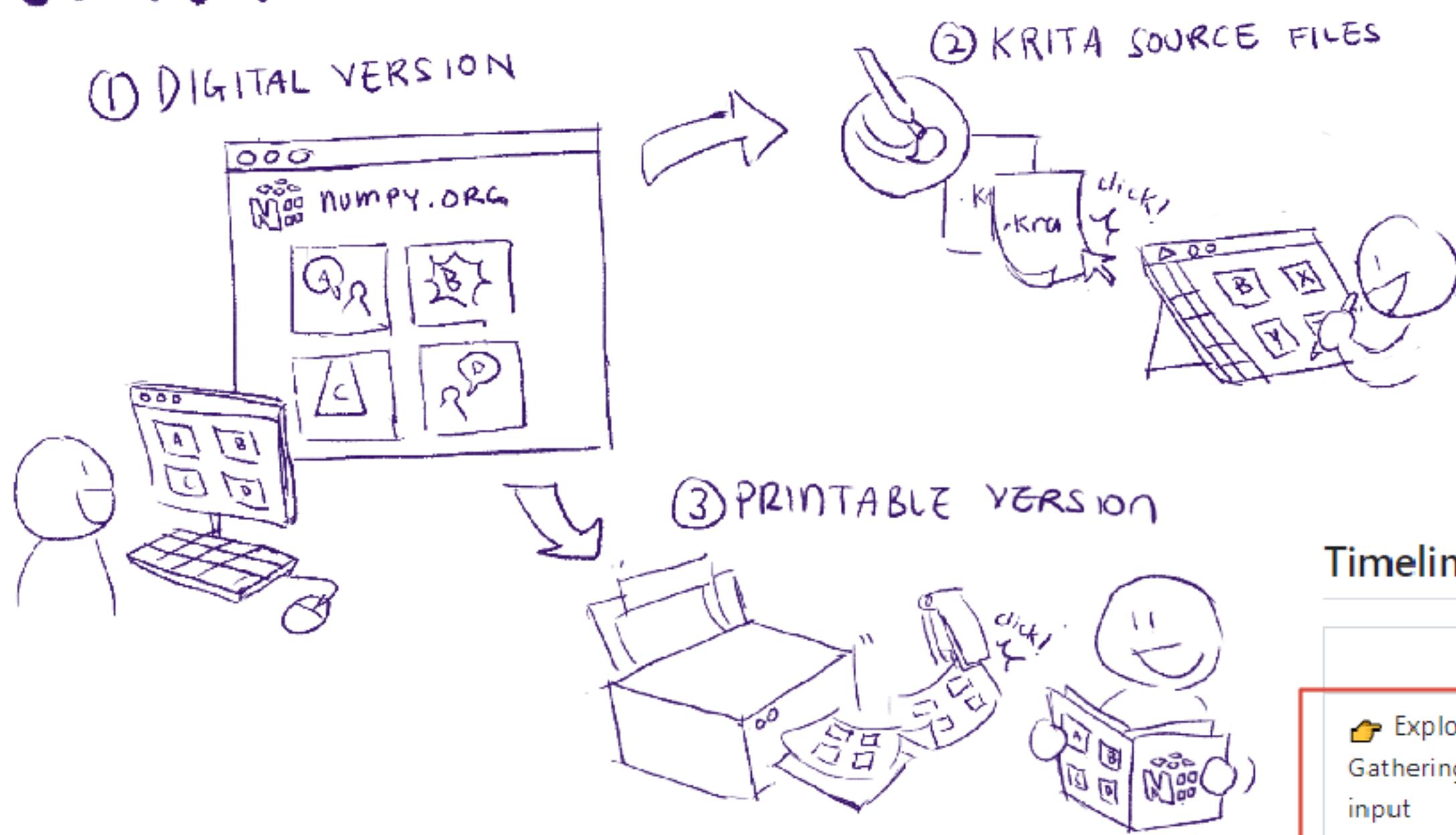
Document these various pathways to being a contributor- as comics!

Reduce this initial friction and uncertainty of how to start

Excite the reader in their future journey of open-source

Expanding the work with Google Season of Docs

DELIVERABLES:



Timeline

Stage	Description	Timeline
 Exploration and Gathering community input	Brainstorming and showing early work to NumPy Community Meeting and NumPy Docs Meeting.	May
Outlining	Outline full scope of comics, based on community input. Determine user persona and pathways.	May
Review #1	Open 1st draft for review in community meetings.	June

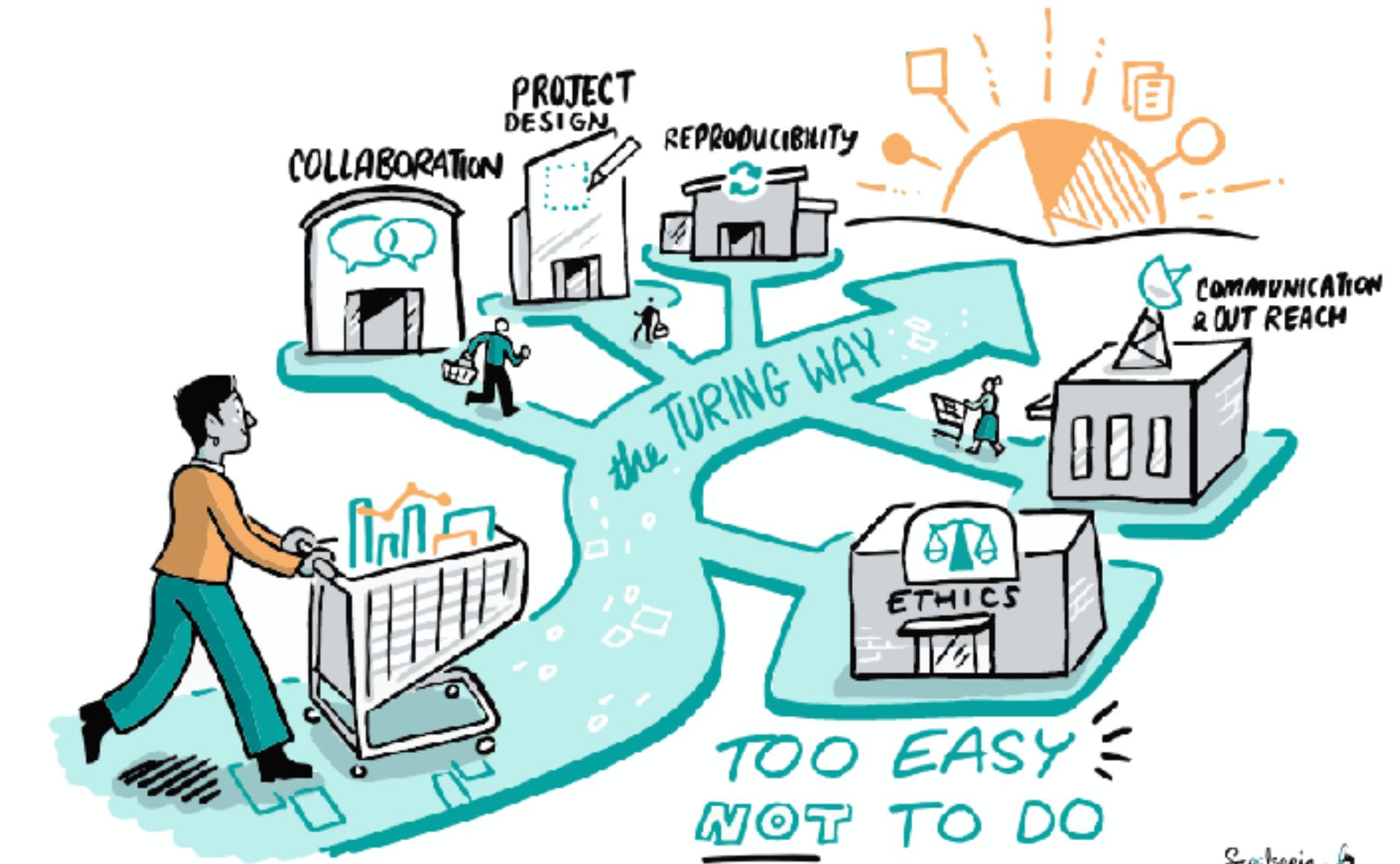
Inspiration

Career progression chart

- too linear
- corporate



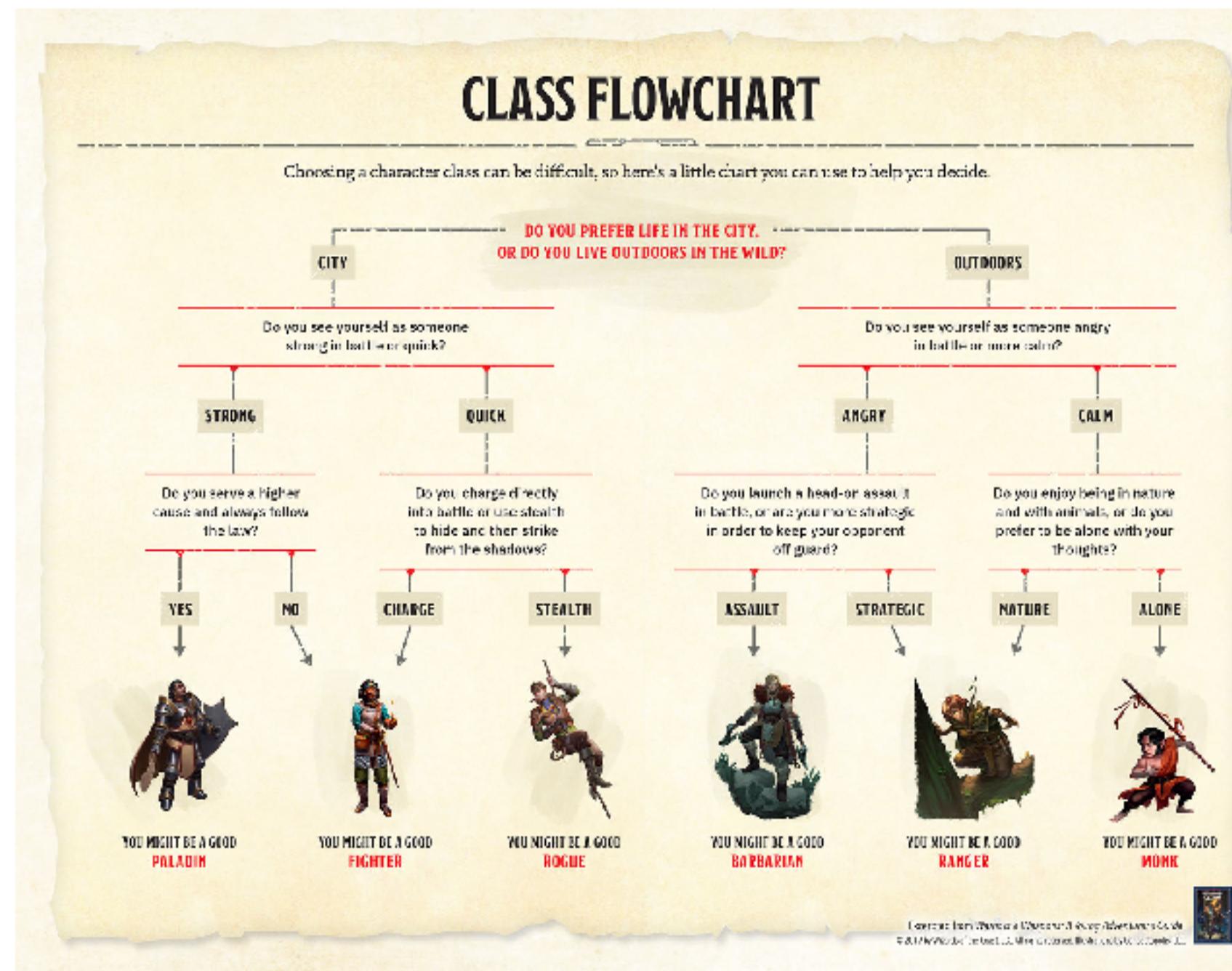
Turing Way Community Handbook
+ non-linear
+ community focused



Inspiration

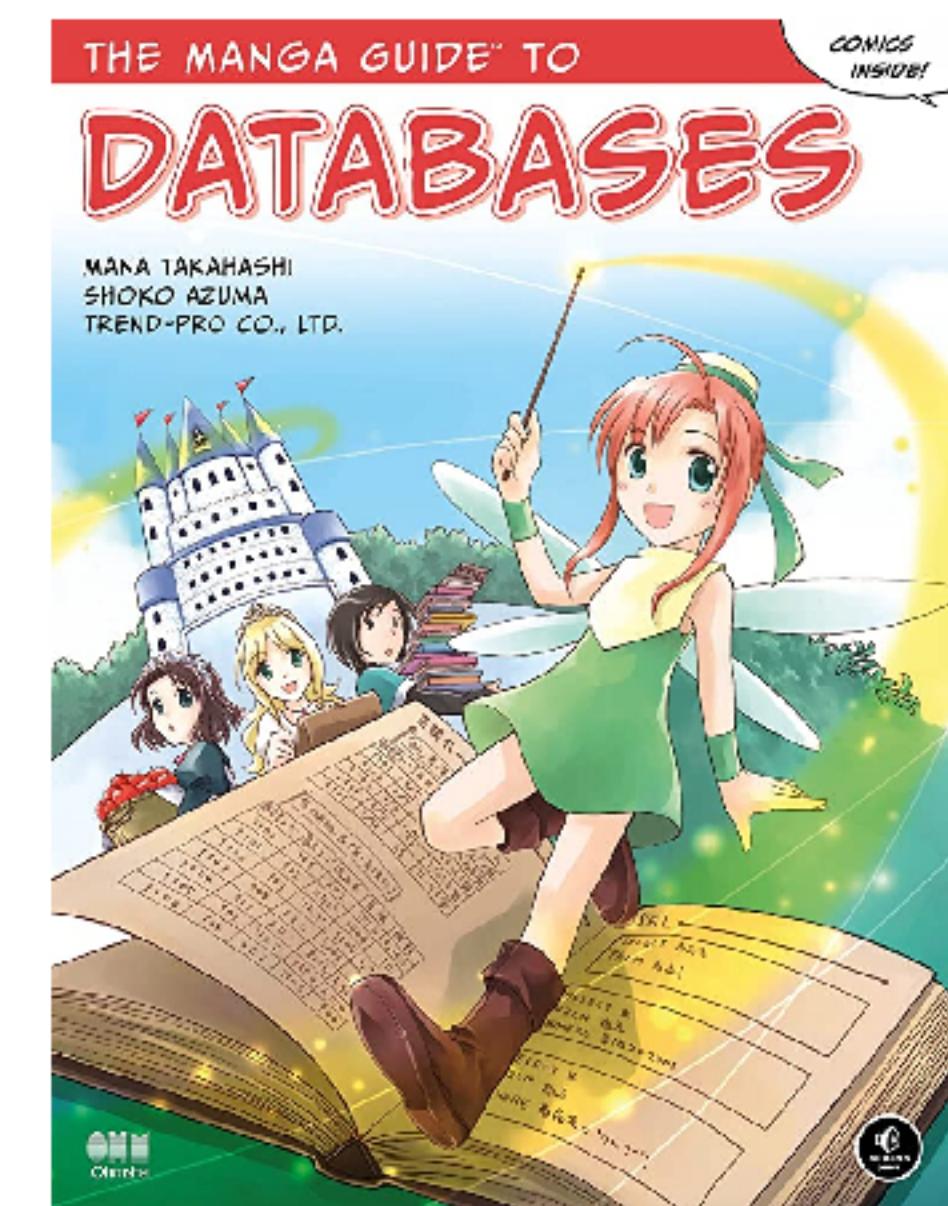
Fantasy classes flowchart

- Begin as Adventurer, not specialised
- Do you want to become a warrior? A mage?
- What are the role of each class?



Manga about learning a skill

- Start off inexperienced
- Learn with **engaging story and character**
- Accomplish goal at end



Pitch

NumPy Contributor Comics

Goal:

- Exciting the reader in their future journey of open-source

Call to Action:

- Connect with the community by join a meeting/Slack/mailing list
- Start their first contribution
- Make a different type of contributin
- 12 pages long = a 5-10 minute read



Pitch

Visual metaphor:

Different roles in NumPy = different fantasy RPG roles

Teamwork:

Team needs different skills to win.

Learn contributor workflow



Writing code = Warrior

Can only wield powerful code/sword
if have documentation



Documentation = Scribe



Pitch

Each role is important to long-term health of project:

Only Warriors on a team = nobody else can follow or sustain the project

Let's go!



YYEAAH!



WOO!



Hey, where is everybody?

Uhh, I don't understand
why that code worked or
what you're doing

Pitch

Find your role:

- Do you want to make your first PRs? Become a Warrior?
- Do you want to refactor the documentation? Become a Scribe?
- Do you want to **do both**? That's possible!



NumPy skills = Fantasy Roles



Documentation = Scribe?



Community Work = Bard?



Writing code = Warrior?



Reviews and Triaging
= Archer?



Merging = Healer?

Characters/User Stories

Academia: PhD student uses NumPy extensively in thesis.

Field: Meterology

Motivation: Move away from licensed products such as MATLAB

→ Learn how to use Git and Github
Make to first PR, based on experiments on thesis, upstream, Future goal: 2nd time contributor

Industry: Familiar with and uses open-soruce projects, moving from Fortran to NumPy

Field: Magnets

Motivation: Helping others transition to NumPy



Industry: Moving from engineering to technical writing role. Wants to help NumPy's documentation to gain experience. Familiar with Python but not NumPy

Motivation: Gain birds-eye view of NumPy



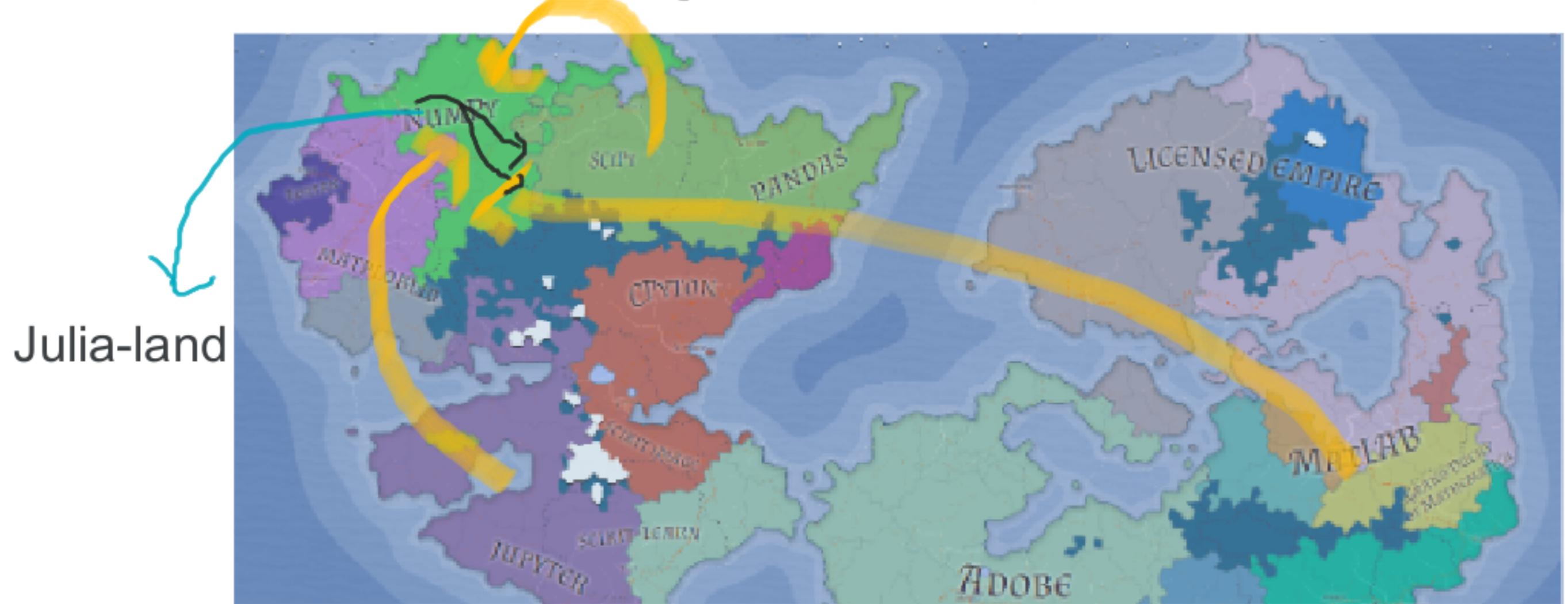
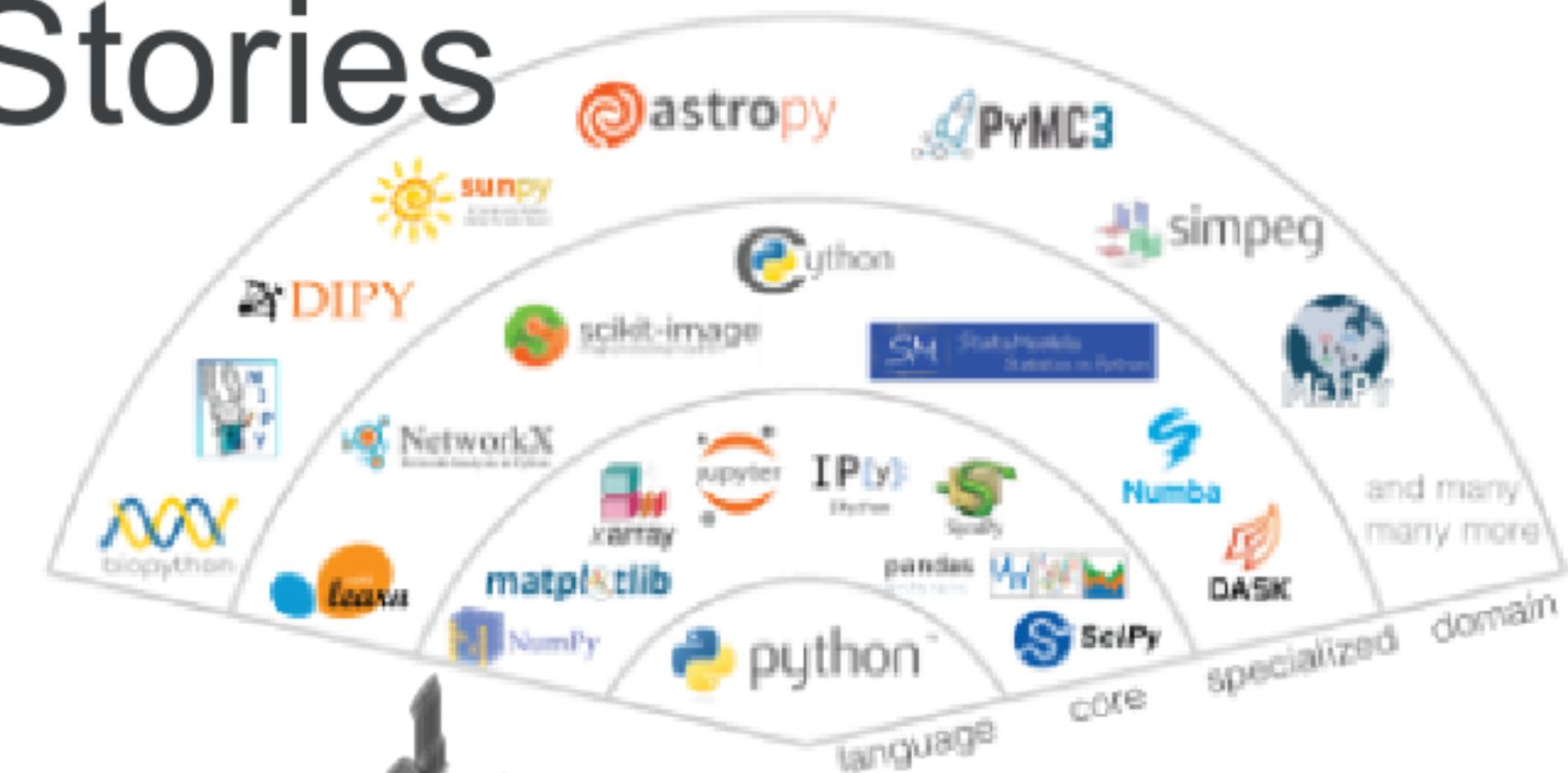
Can go through if there's time

Characters/User Stories

Characters travel
across the open source
landscape

Different starting points
= different needs

But everyone has overlapping needs



What comments or concerns do you have about this project?

Recognize effort =/= automatically granting of roles. Merging 10 PRs =/= level up to maintainer

Journey is non linear, move back and forth, even U-turn

Anyone can contribute at any given time. Gatekeeper's role to make sure everyone follows rules, including themselves

Can hold multiple roles at once

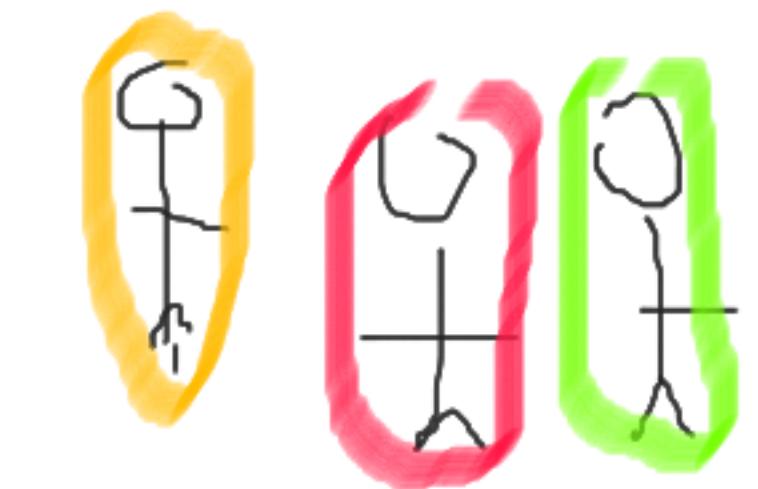
Hesitation on 'warrior': healer? Not a destructive force hacking things down. Massive complicated existing thing, trying to make it healthy and expand

How well does the fantasy RPG model match to the contribution model? Role -> behavior vs Gain experience -> Role potentially

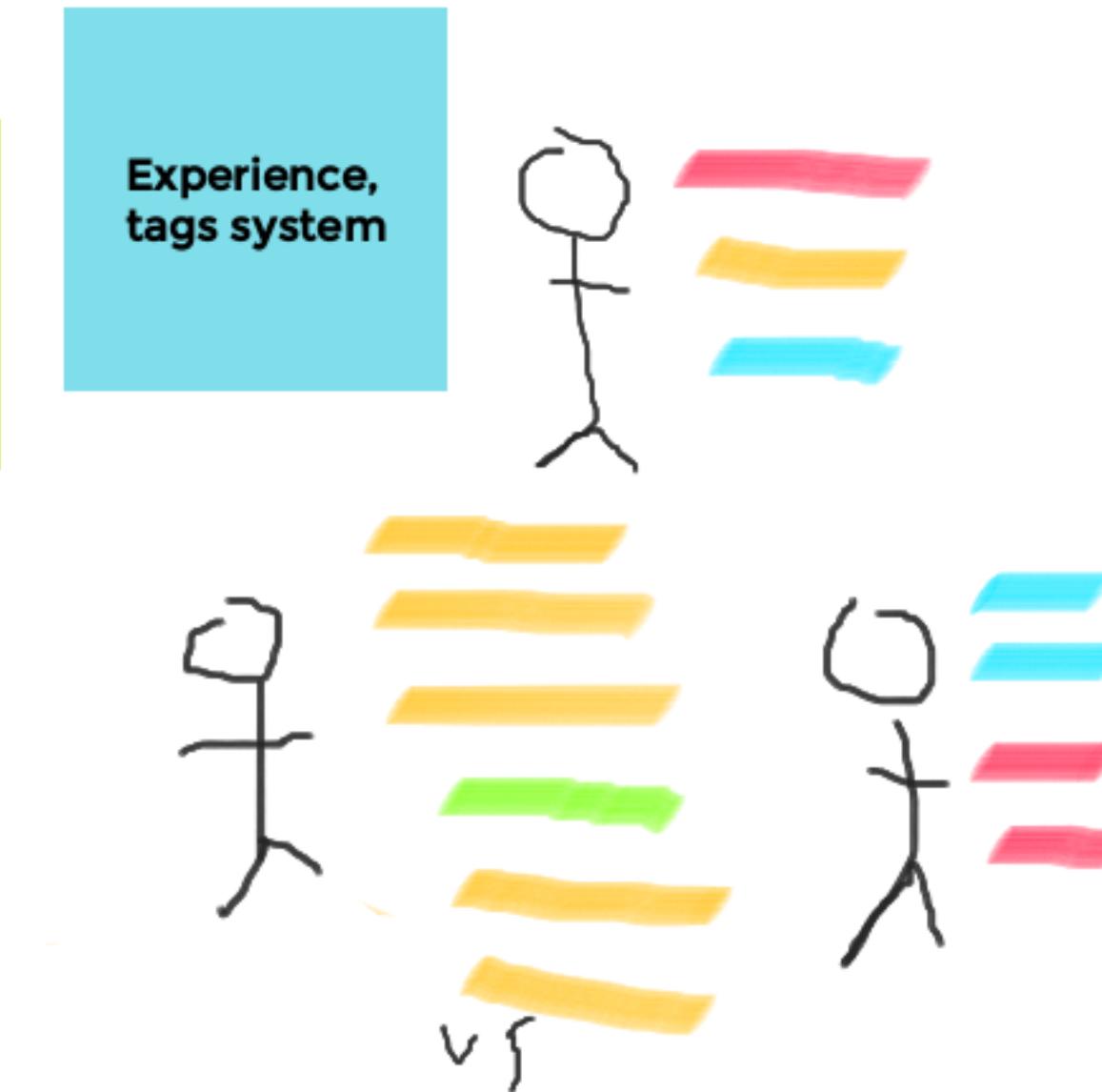
Individual with experience =/= Formal role

Instead of you only being a Scribe, you have Scribe-experience along with your other experiences. Reality is much more rounded

Experience, tags system



Role based



What comments or concerns do you have about this project?

**What it takes to get that badge?
Quantify things that cannot be easily quantified**

**Concern:
Quantify might turn into competition**

No set expectations for each role, what earning a badge even mean? No mechanism to de-escalate role

Comparison to serving on a board of a non-profit. eg letter, timeline of 2 years, can see if meet or do not meet expectation, may or may not be invited back

Can add slide to show different systems: fantasy or badge system?

**DnD is very western-centric.
Unfamiliar to some audiences**

**User Service project:
interested in your feedback, want NumPy to improve something, especially from downstream**

Nobody understands the whole project- dive into what you're interested in

Fluidity of role: not need be warrior to dive into code

Instead of fixed roles, people can have percentage of skills aka skill build of Diablo 2

Completing quests together. Quests similar to sprints

Characters become interested in side-quests while working on main quest "Ooh, what's that over there?". Fueled by curiosity

Sprints are more like training or little parties. May or may not see each other again. Or plan to meet up again

Issues, PRs are quests

Characters following a map but ending somewhere else

Sprints are smaller ("get me 5 bear skins", good first issue tagged), not necessarily the big, main quest

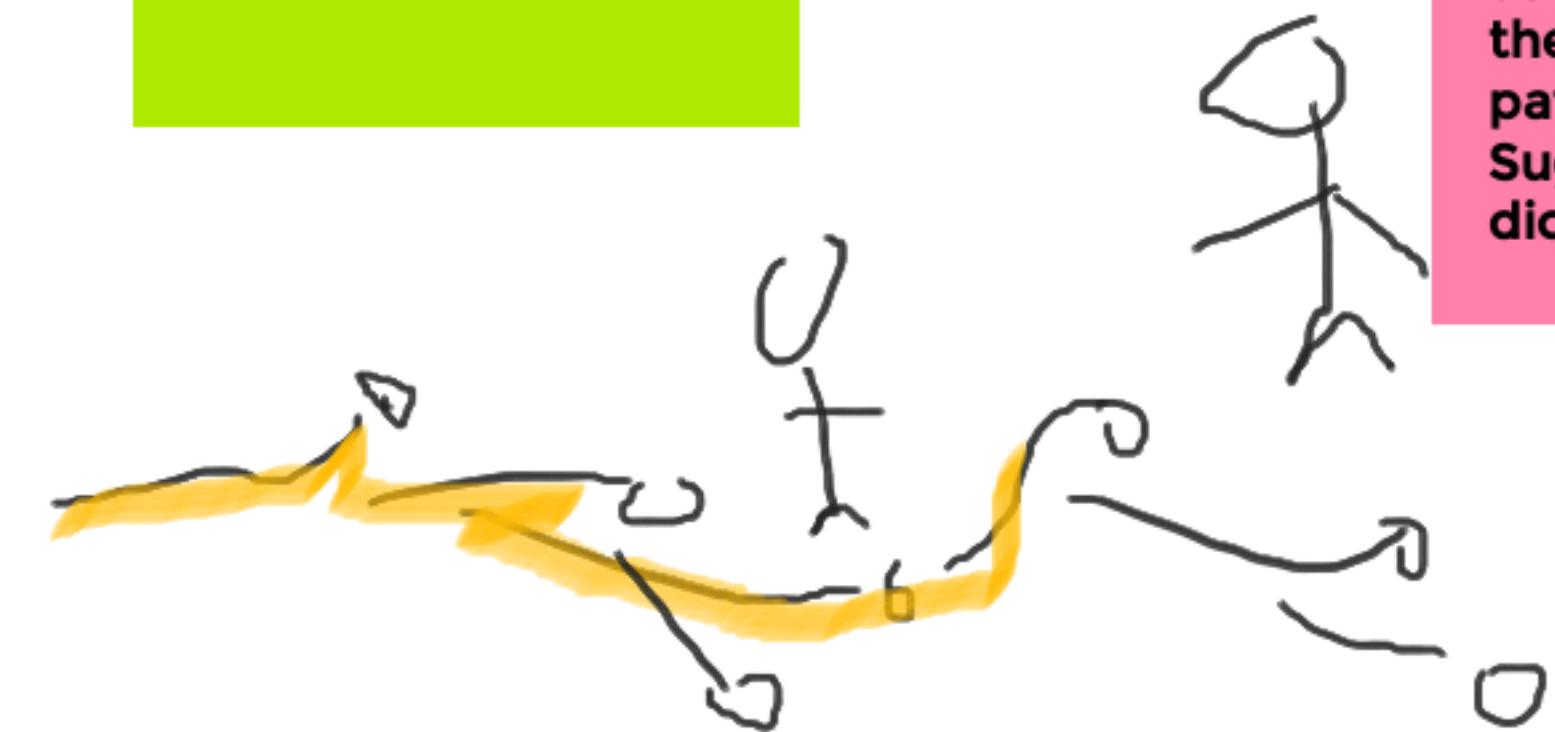
Character: The Wandered/Fleeing Royal

Character: Bored and seeking distraction thesis writer

Character: the BUG KILLER

Character: In pursuit of the intellectual

Maintainers or other community members providing some guidance in the various pathways. Suggestions not dictating what to do



Coming to NumPy first, and then Python. Specialized -> general

Emotional core: why people come back, because of welcoming community

Self-directed questions: I need to build something I need

eg build appendable, memory mappable numpy arrays for X

Weight of responsibility? Or intrigued by NumPy influence?
Normative power. NumPy as not fastest library but greatest influence

Antihero: The FAME SEEKER

Having the spirit/passion.
especially with older project with larger codebase and downstream projects it affects

Small actions -> Big impact

It's also OK to step back

Character: the Lone Wolf

Futility of not sharing. "I do what I need"

Feedback: people are not defined by roles

I am a role



I'm a reviewer



I'm do reviews
and sometimes
triage



I'm a
documentation
writer



I'm write
documentation
and sometimes
tag issues

Feedback: there are no formal roles

- Not like a corporation where someone promotes you to a new role.
- Well, there are some formal roles but is decided by community (eg governing board) and can step down anytime



I reviewed a few PRs!



I gained a promotion!
I'm now a reviewer!



I AM a REVIEWER and I REVIEW
PRs ALL the TIME UNTIL the
HEAT DEATH OF THE UNIVERSE



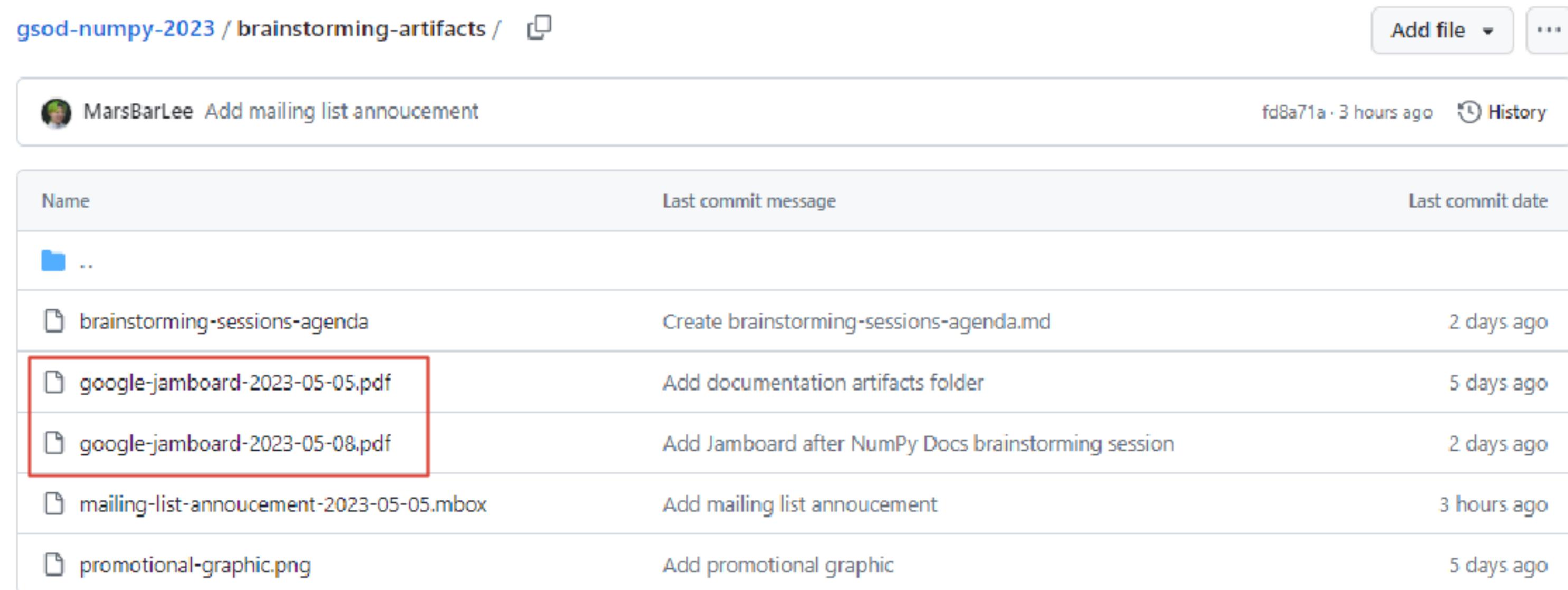
I enjoyed reviewing PRs
during the conference
sprint!



I think I could do a few
more in the next university
term (4 months). Then I will
have to stop.

Thank you!

I will upload this Jamboard into the project repository. at <https://github.com/MarsBarLee/gsod-numpy-2023/tree/main/brainstorming-artifacts>



gsod-numpy-2023 / brainstorming-artifacts /		
		Add file · ...
Name	Last commit message	Last commit date
...		
brainstorming-sessions-agenda	Create brainstorming-sessions-agenda.md	2 days ago
google-jamboard-2023-05-05.pdf	Add documentation artifacts folder	5 days ago
google-jamboard-2023-05-08.pdf	Add Jamboard after NumPy Docs brainstorming session	2 days ago
mailing-list-annoucement-2023-05-05.mbox	Add mailing list annoucement	3 hours ago
promotional-graphic.png	Add promotional graphic	5 days ago

To follow this project, watch out the NumPy mailling list or NumPy Slack!