



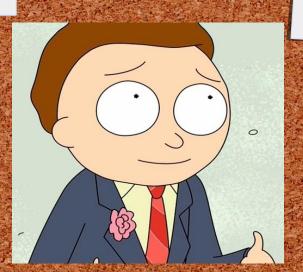
Who is Kernelnewbie?



- Open source newbie
- May or may not have formal computer science education
- Curious, enthusiastic, confused



Who is Kernelnewbie?



Type two:

- Belongs to open source world, new to Linux kernel
- Wants to contribute to
 Linux Kernel out of interest
 or job
- Curious, Excited, confused

Flow of Morty's
Journey in a
Linux kernel
world

1.

Setting up an environment for the first contribution

2.

First successful contribution

3.

Find tasks/
projects
for more valued
contribution

Quality
contribution
in the Linux
kernel / fulltime job









(Greg Kroh Hartman at Git Merge, 2016)

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- Need of more kernel developers
- Kernel community works on trust



- First patch tutorial helps with setting up an environment but doesn't really talk about how kernel development process works
- It suggests checkpatch.pl fixes but not all subsystem maintainers are fine with accepting these fixes
- Different subsystems follows different workflow



- No specific time defined on when you will get reply or patch will get merged
- Emails == Chances of patches being lost
- Subsystem maintainers picks up the patches based on their work flow no documentation on the same

2: First successful contribution

- Patch tags some prefers RFC and some don't
- Picky but not patient enough
- Rude behavior -> discourages Morty to continue their journey



- Not using version control development platform == no open issues
- TODO files in subsystems are not often updated
- Hard to find TODO tasks listed as comments in files

3: Find tasks for quality contribution

- Maintainers/developers often have few ideas but do not have time to implement them because of the busy schedule
- Newbies often looks more ideas but don't know where to find them



- Many times new tasks often requires discussions with the people before sending patches
- Mailing lists/IRCs works for some subsystems but having an information on whom to reach out can help when starting



Kernel Planet



Possible Solution

Possible Solution



Idea: A home to address the concerns

- Website/Wiki
- Involve kernel developers/maintainers who are interested in building a bridge between kernel newbies and kernel developers / maintainers

- List of subsystems who are fine with receiving checkpatch.pl fixes and guiding kernelnewbies in their journey of first perfect kernel patch

- List of documentation available for each subsystem/kernel areas in a more organized manner

 Subsystem wise TODO list of tasks (Similar to github's help needed/beginner friendly tags)

- Subsystem wise assigned list of reviewers or developers who wants to help in reviewing patches

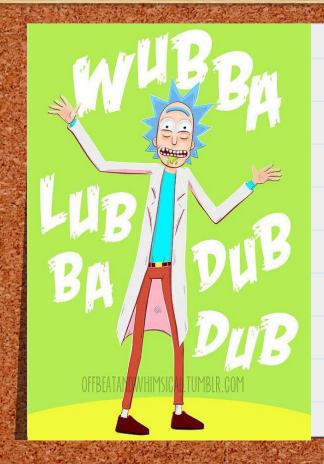
- List of more ambitious projects [Just a bunch of possible ideas from developers/maintainers]

[RFC] Solutions
I'm not sure
about

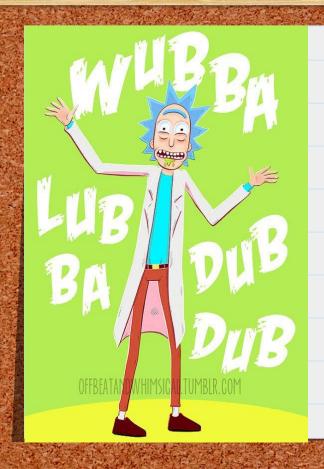
- Problem: Behaviour
- Solution: Code of conduct, basically something that says you'll not shout if the patch takes multiple revisions and bit of a time

[RFC] Solutions
I'm not sure
about

- Problem: No docs on subsystem wise development process
- Solution: Document the subsystem wise process of sending patch to patch being merged [approx time?]



More ideas?



More ideas?

[https://github.com/nerdyvaishali/kernelbridge]

Resources

- Google.com
- Adult Swim Rick and Morty