

CSE306 Software Quality in Practice

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What are topics you'd like us to discuss on Wednesday?
(sample of responses)

Review / Reviews for LPR / How to prepare for LPR / The order of using tools. (about half)

What output/evidence is expected? (several)

Maybe seeing criterion being used in other languages / Tools in other languages (two)

Are there testing programs that mimic human interaction on a website?

How to test AI?

How to get a job.

Reflect a bit on LEX23, addressing these questions:

1. Were the preparations you made for LEX23 appropriate, or would you do something different before part 1 of the LPR?
2. Are you happy with the amount of work you were able to complete during LEX23?
3. Do you have a plan for how to use your remaining time during LEX24?

1. Were the preparations you made for LEX23 appropriate, or would you do something different before part 1 of the LPR?

Yes, the process is very similar to the labs we have been doing throughout the whole semester.

I will need to do more preparation by organizing my available resources

I should have brought some notes with me to help with the process and how to invoke some commands.

I would create a schedule with time expected to spend on each component of the lex, as I am not happy with the progress made on lex 23

I think I was well prepared.

I created a sheet with some commands I thought were useful, like how to run gdb on Criterion tests, and gprof. I feel like it was lacking in any other information, and I would like to add more to it, specifically when it comes to C syntax.

I don't think I expected the LEX to be like how it was. Having my hand held through most of the LEXs in this course didn't prepare me too much. I think more preparation in terms of remembering C syntax (since we can't google syntax) would help.

I need to prepare more before LPR part 1. I copied down the most important parts of the slides from April 17th, and that was helpful to me, but I need to create a cheat sheet for how to use the different tools. I spent too much time looking through the LEXs during LEX 23.

No, I wasn't used to using the lab computers and I didn't have most of the commands to use the tools memorized.

I went into LEX23 with no preparations and I think that was the part that costed me. I don't think I will make the same mistake in the LPR now that I've learned my lesson.

2. Are you happy with the amount of work you were able to complete during LEX23?

No - 36/68 (53%)

Yes - 20/68 (29%)

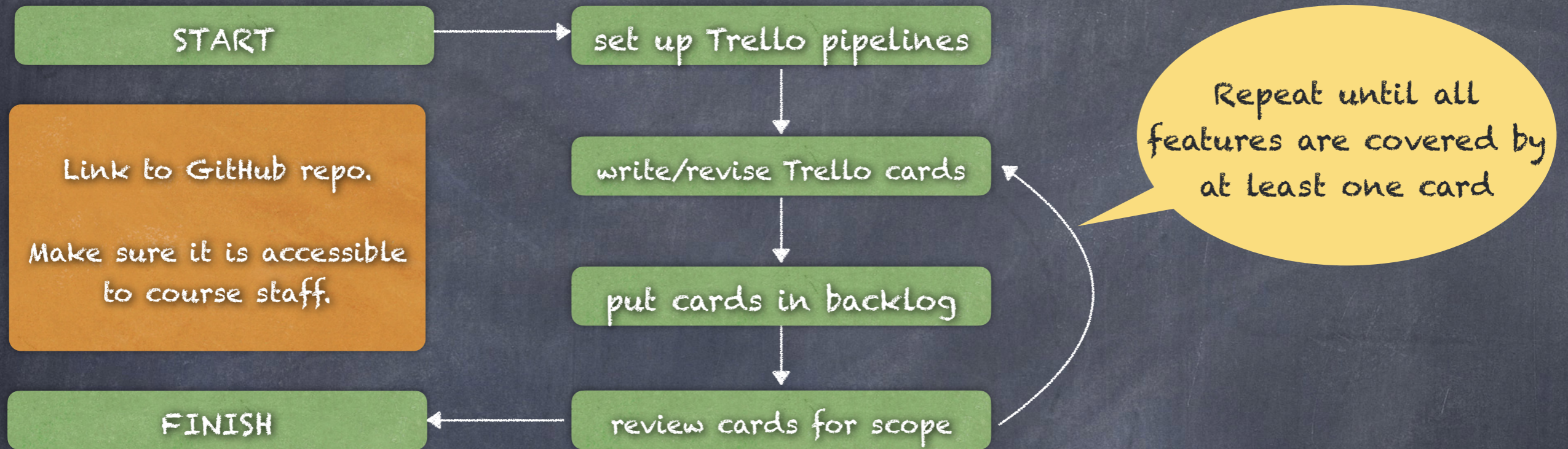
Didn't address - 12/68 (18%)

3. Do you have a plan for how to use your remaining time during LEX24?

Yes - 57/68 (84%)

No / Not yet / didn't address - 11/68 (16%)

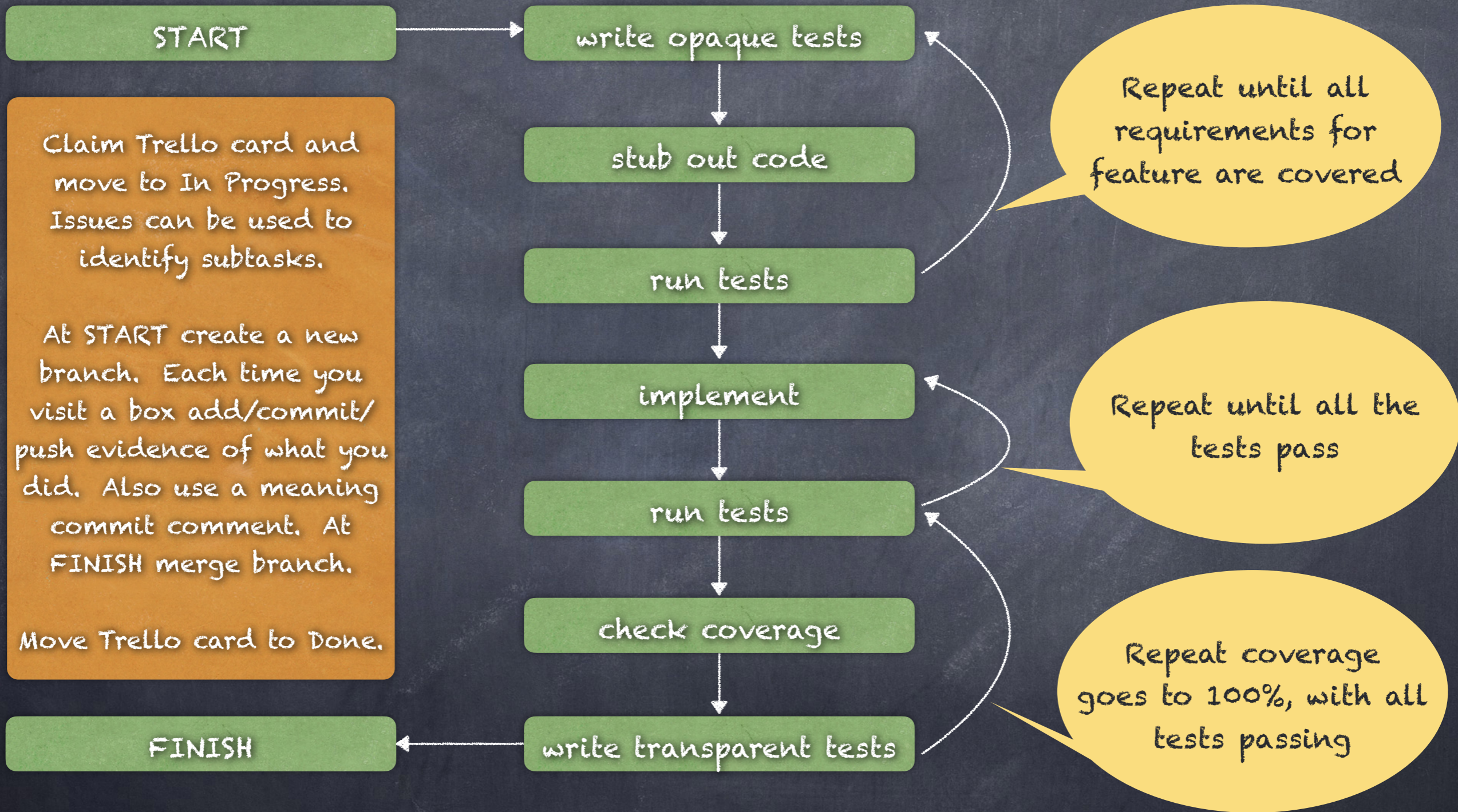
TO PLAN



BASIC TOOLS: Trello

ADDITIONAL TOOLS: git

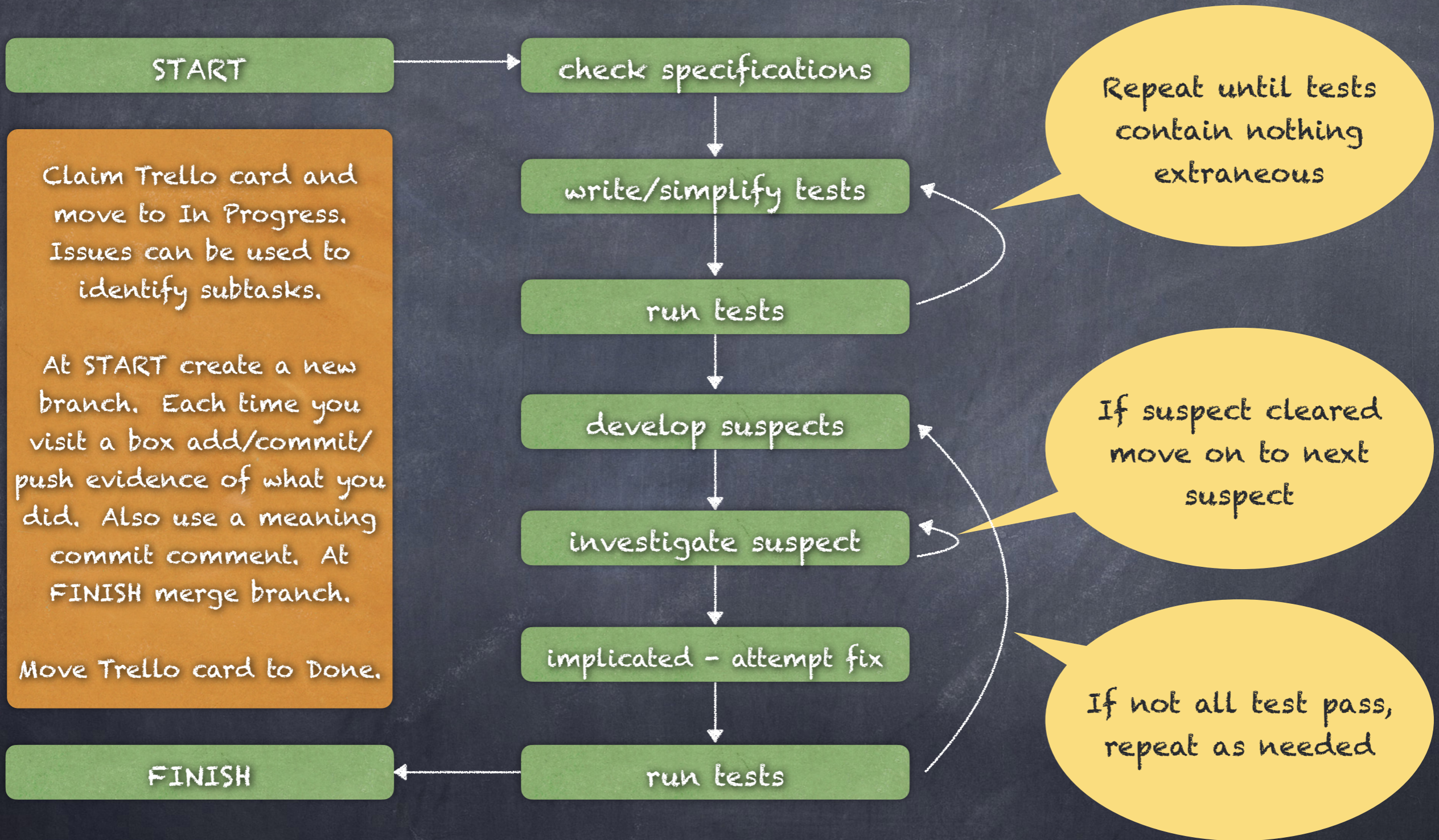
TO BUILD A NEW FEATURE



BASIC TOOLS: compiler, editor, make, criterion, git, gcov, Trello

ADDITIONAL TOOLS: gprof, callgrind, memcheck

TO ADDRESS A BUG



BASIC TOOLS: compiler, editor, make, criterion, git, gdb, Trello

ADDITIONAL TOOLS: gprof, callgrind, memcheck

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Are there testing programs that mimic human interaction on a website / GUI ?

- <https://developer.android.com/training/testing/instrumented-tests/ui-tests>
- <https://docs.oracle.com/en/java/javase/22/docs/api/java.desktop/java/awt/Robot.html>
- https://en.wikipedia.org/wiki/Comparison_of_GUI_testing_tools
- <https://www.selenium.dev/>

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How to test AI?

- ① <https://deepchecks.com/how-to-test-llm-applications-before-releasing-to-production/>
- ① <https://towardsdatascience.com/testing-large-language-models-like-we-test-software-92745d28a359>
- ① <https://www.infoworld.com/article/3714929/how-to-test-large-language-models.html>

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How to get a job.

How to get a job

Do your homework!



How to get a job

Do your homework:

Determine expertise needed for different jobs

Update your resume: highlight your expertise: don't omit or embellish

Find out where/how/when to apply

Network - might get your resume looked at

Leverage internships, research experiences, etc.

Be flexible re: location, industry

Talk to student clubs (e.g. resume reviews)

Talk to career services

Side projects

Extracurriculars

Be professional

Have a plan B (and C, ...)