This is CS50.

Today

Welcome

Course Structure

Scratch

PART ONE Welcome

of CS50 students have never taken CS before

what ultimately matters in this course is not so much where you end up relative to your classmates but where you end up relative to yourself when you began

Getting Started

- Browse website at cs50.harvard.edu
- Read syllabus at cs50.harvard.edu/syllabus
- Read FAQs at cs50.harvard.edu/faqs

Expectations

- Watch eleven lectures
- Attend eleven class meetings via Zoom
- Complete ten labs
- Solve ten problem sets
- Take nine quizzes
- Take one test
- Design and implement a final project

Grades

| Problem Sets | 40% |
|----------------------------|-----|
| Quizzes | 10% |
| Labs | 10% |
| Test | 20% |
| Final Project | 10% |
| Attendance (at classes) | 10% |

Grades

- SAT/UNS
- Letter Grade

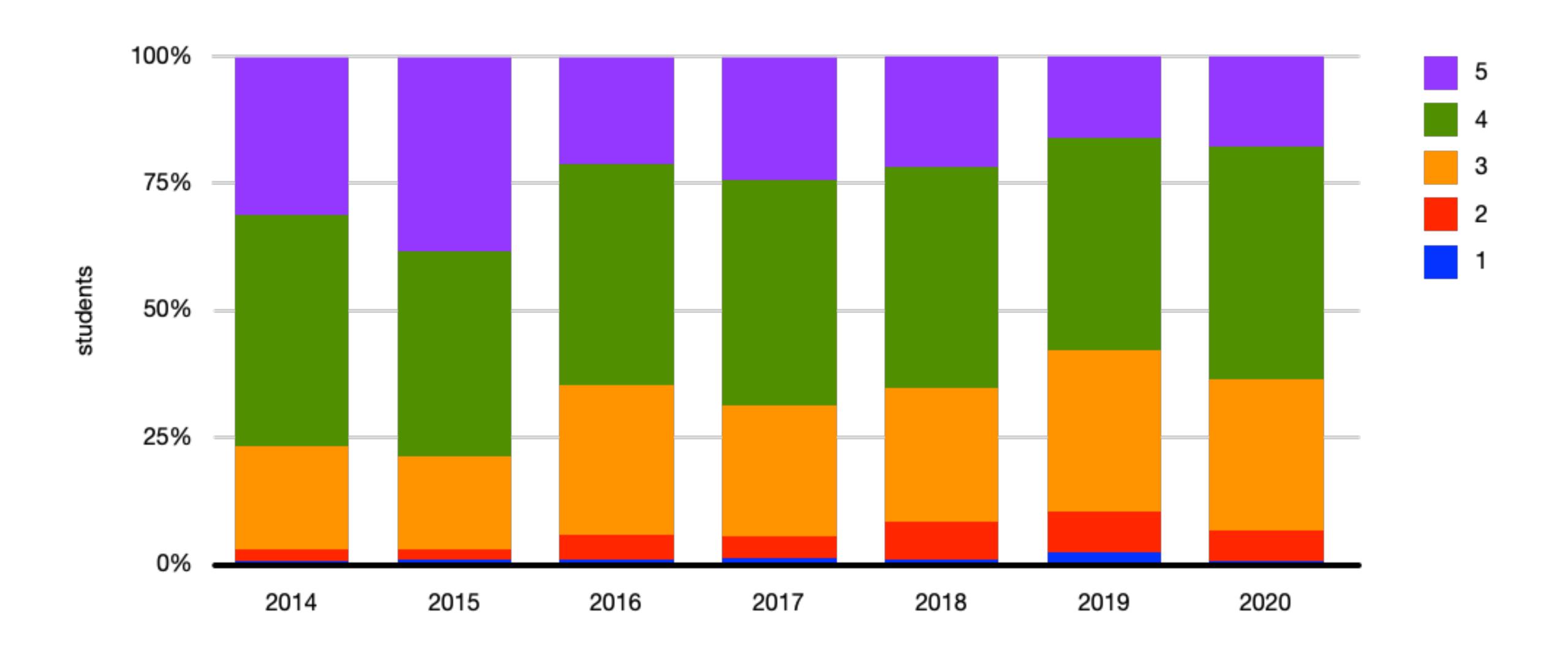
Grades

- CS concentrators may take CS50 SAT/UNS.
- First years may take both CS50 and a Freshman Seminar SAT/UNS.
- You can take CS50 (SAT/UNS or for letter grade) to fulfill the Gen Ed Science distribution requirement or QRD.
- See FAQs on cs50.harvard.edu for concentrations that require letter grades.

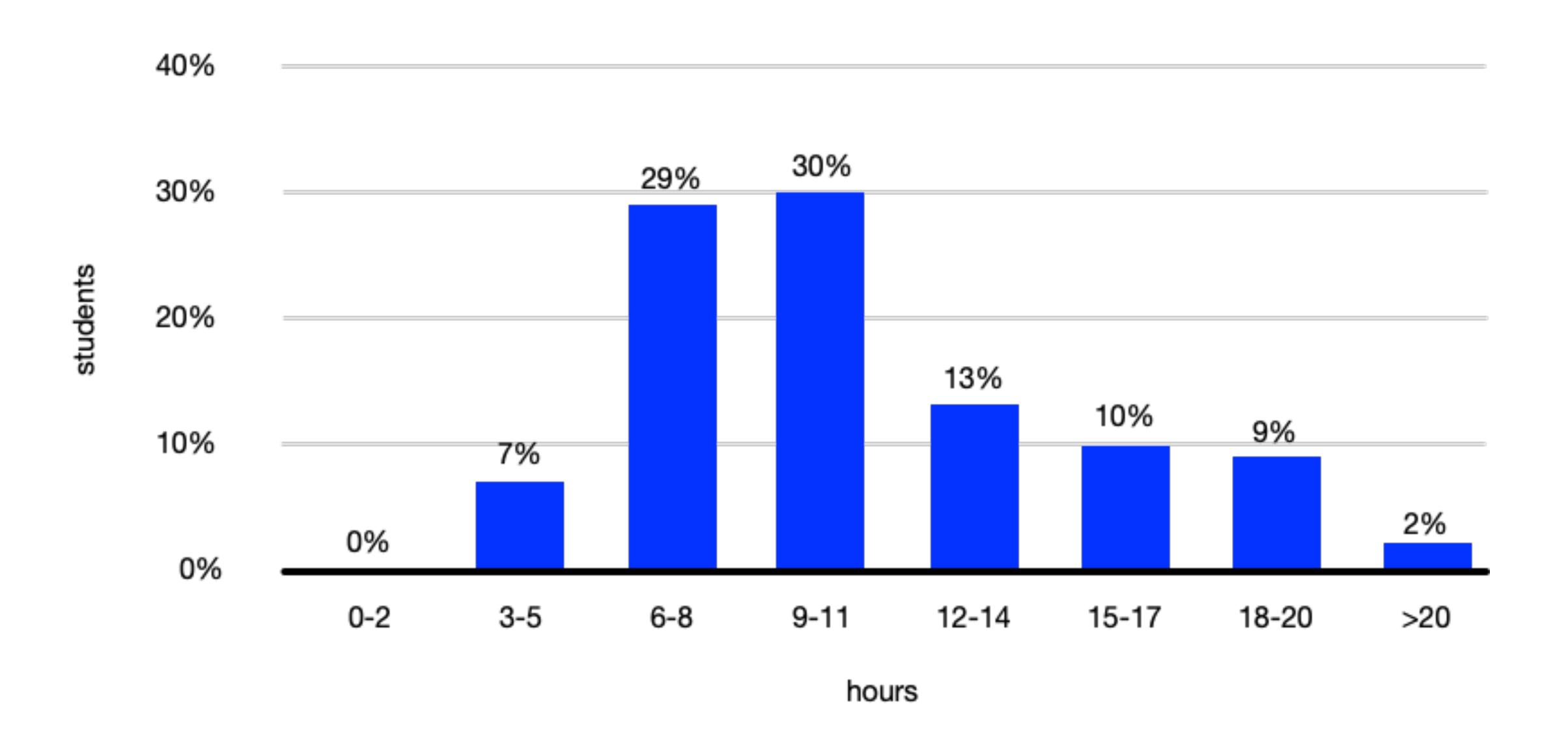
Axes

- Correctness
- Design
- Style

Difficulty



Workload



Academic Honesty

 https://cs50.harvard.edu/college/2021/spring/syllabus/ #academic-honesty

Academic Honesty

• "... be reasonable..."

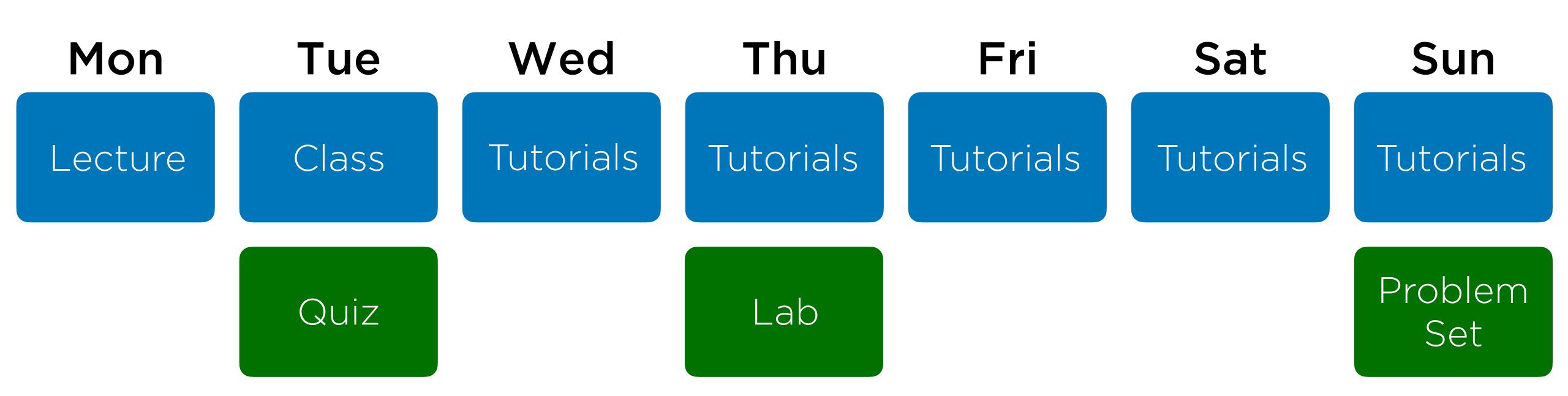
• "... when asking for help, you may show your code to others, but you may not view theirs..."

Academic Honesty

 Regret clause. If you commit some act that is not reasonable but bring it to the attention of the course's heads within 72 hours, the course may impose local sanctions that may include an unsatisfactory or failing grade for work submitted, but the course will not refer the matter for further disciplinary action except in cases of repeated acts.

PART Two Course Structure

Weekly Schedule



Lectures

- Pre-recorded, watch on Mondays
- Resources
 - Video
 - Notes
 - Shorts
 - Slides
 - Source Code

Classes

- Tuesdays, 3pm-5pm ET
- Attendance expected
- Conceptual review, questions, practice problems, lab

Tutorials

- Wednesdays-Sundays, 30-minute sessions via Zoom
- By-appointment opportunities for help
- 1:3 staff-to-student ratio
- harvard.cs50.me

Quizzes

- Short, open-book, take-home quiz
- Due Tuesdays at 2:59pm ET

Labs

- Short practice problems
- Due Thursdays at 11:59pm ET
- Time during class to work on labs
- Solutions posted on Wednesdays at 11:59pm ET
- Graded pass/fail

Problem Sets

- Due Sundays at 11:59pm ET
- Graded on correctness, design, and style
- Submit form via Google Forms, submit work via Gradescope

Final Project

- Opportunity to develop your own piece of software
- Groups of up to 3

Late Policy

- Late submissions (of quizzes, problem sets, the test, and the final project's milestones) will be penalized at a rate of 0.1% per minute.
- However, you may grant yourself one 3-day (72-hour) extension during the term for any one problem set.
 - Form on course website, in syllabus.

Support

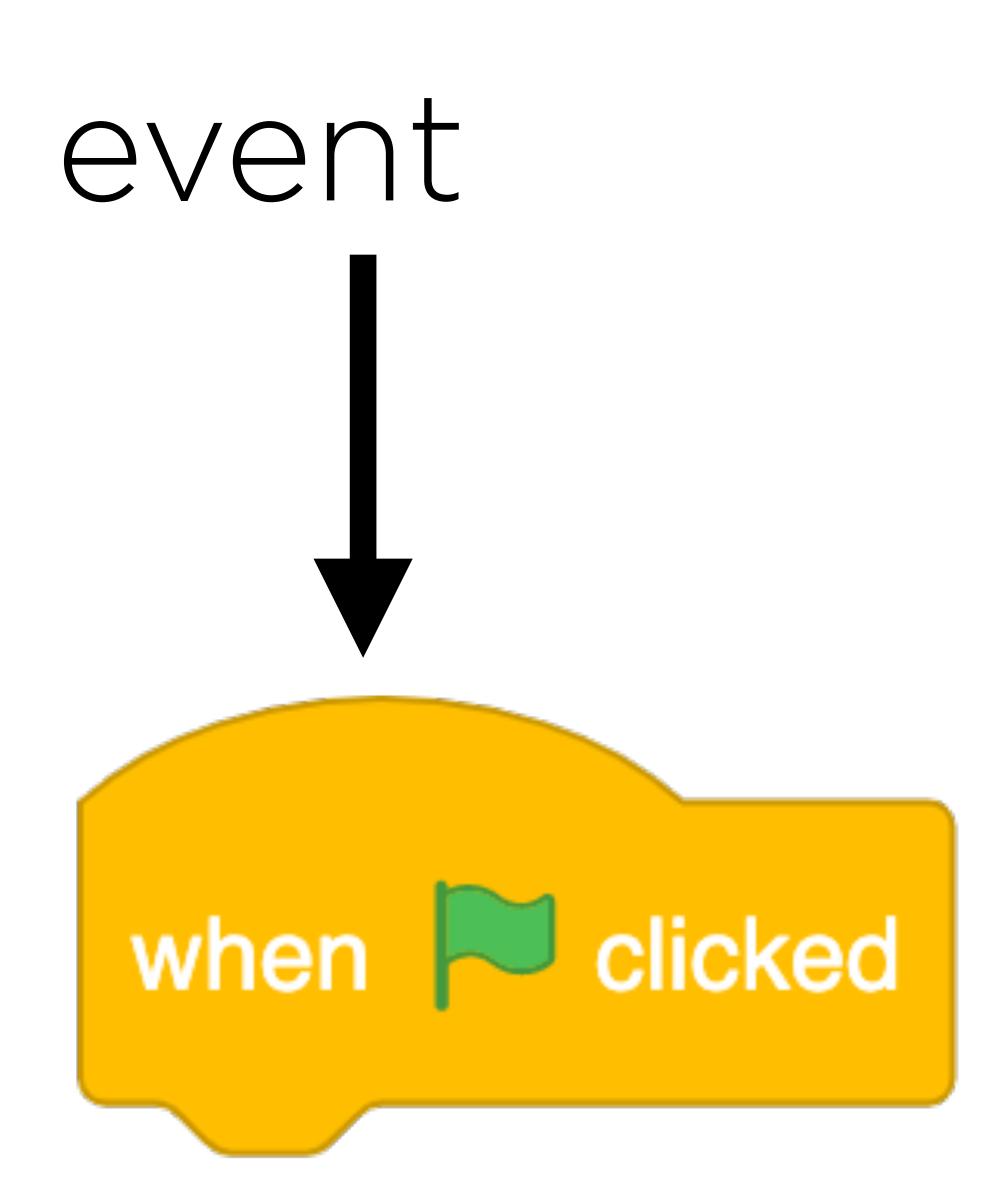
- Tutorials
- Assigned teaching fellow
- Ed Q&A forum

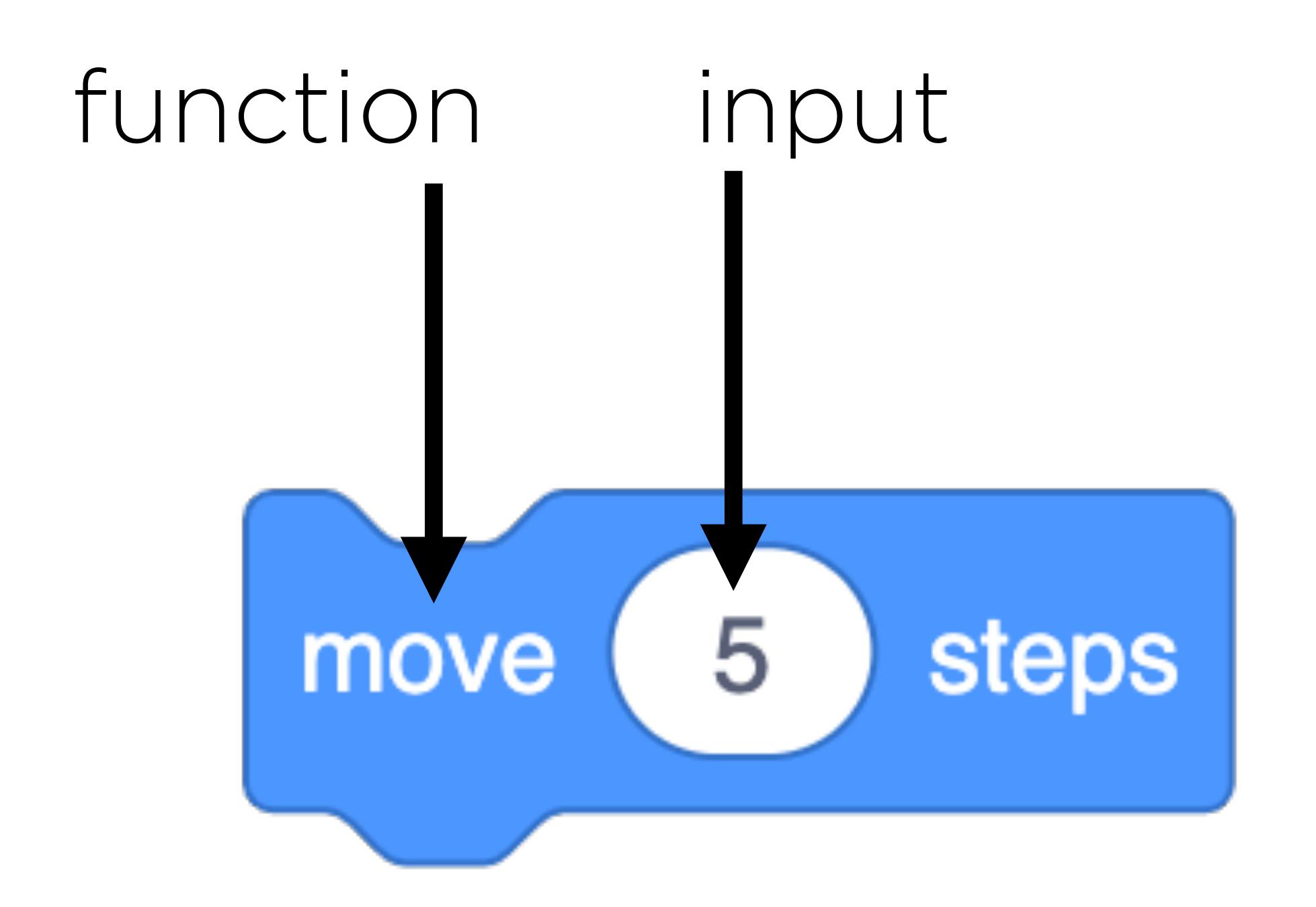
What questions do you have?

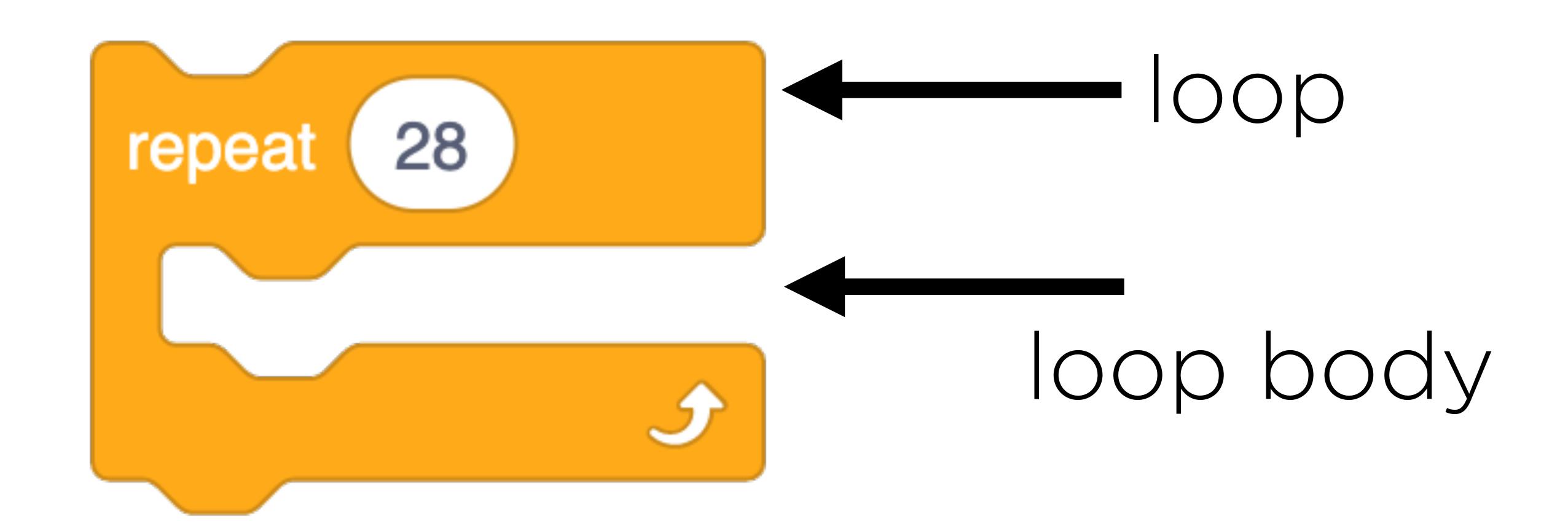
PART THREE

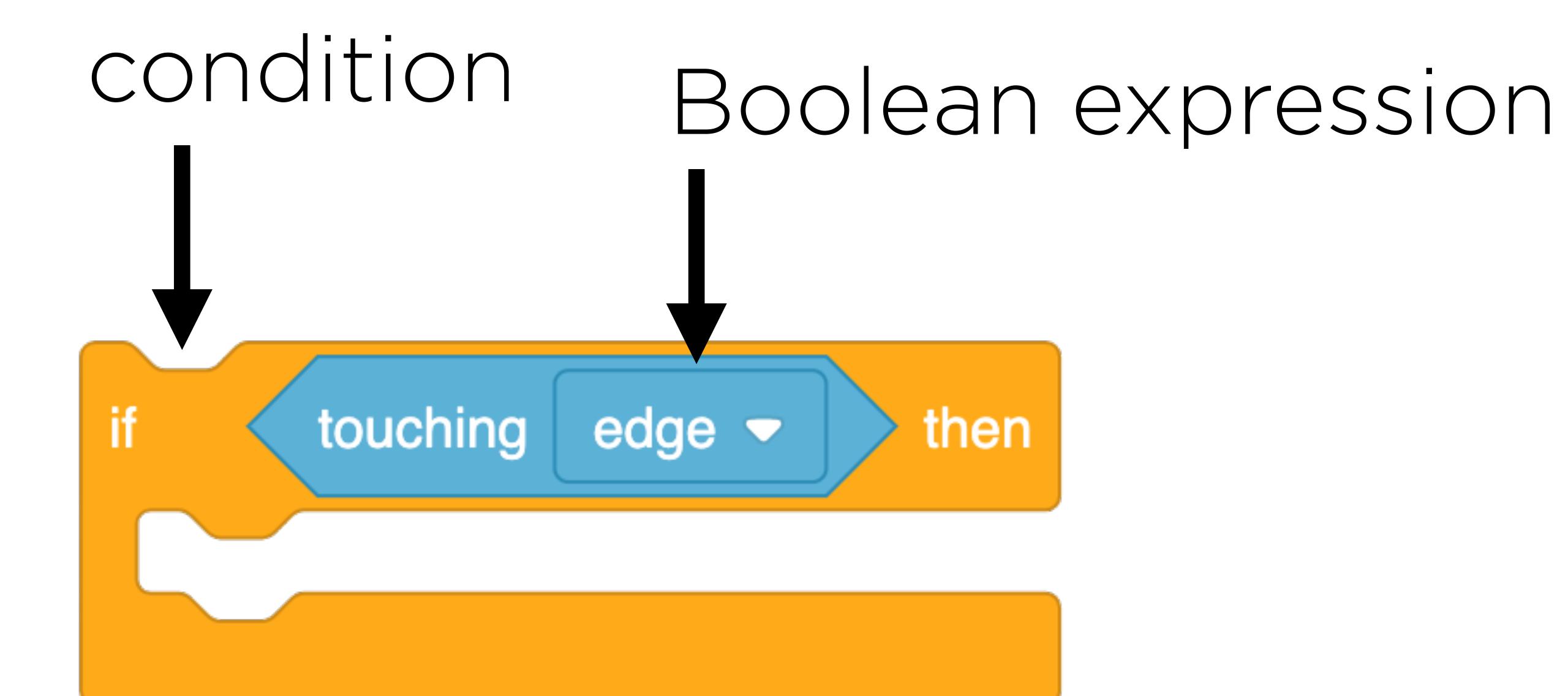
Scratch

cs50.brianyu.me



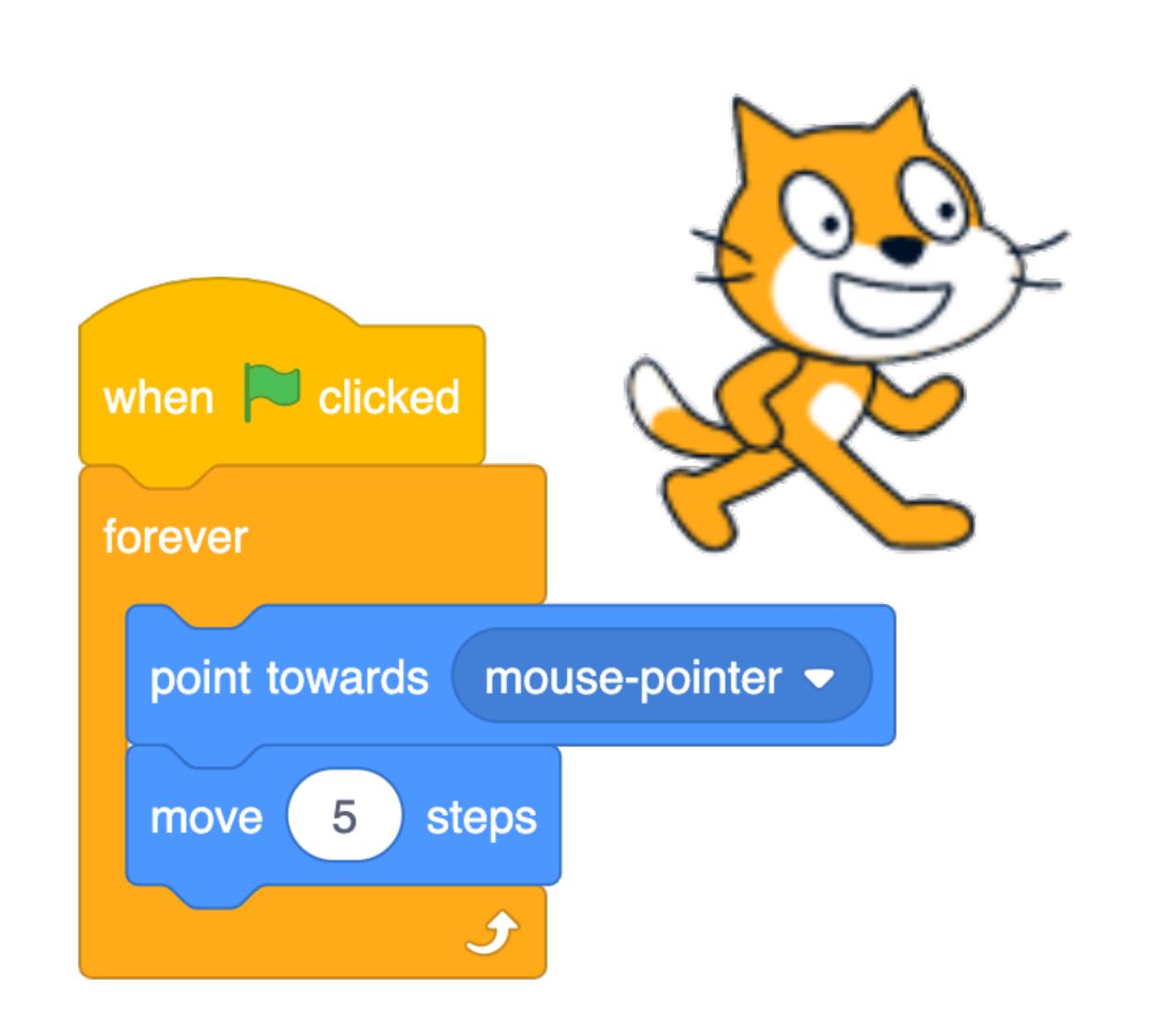


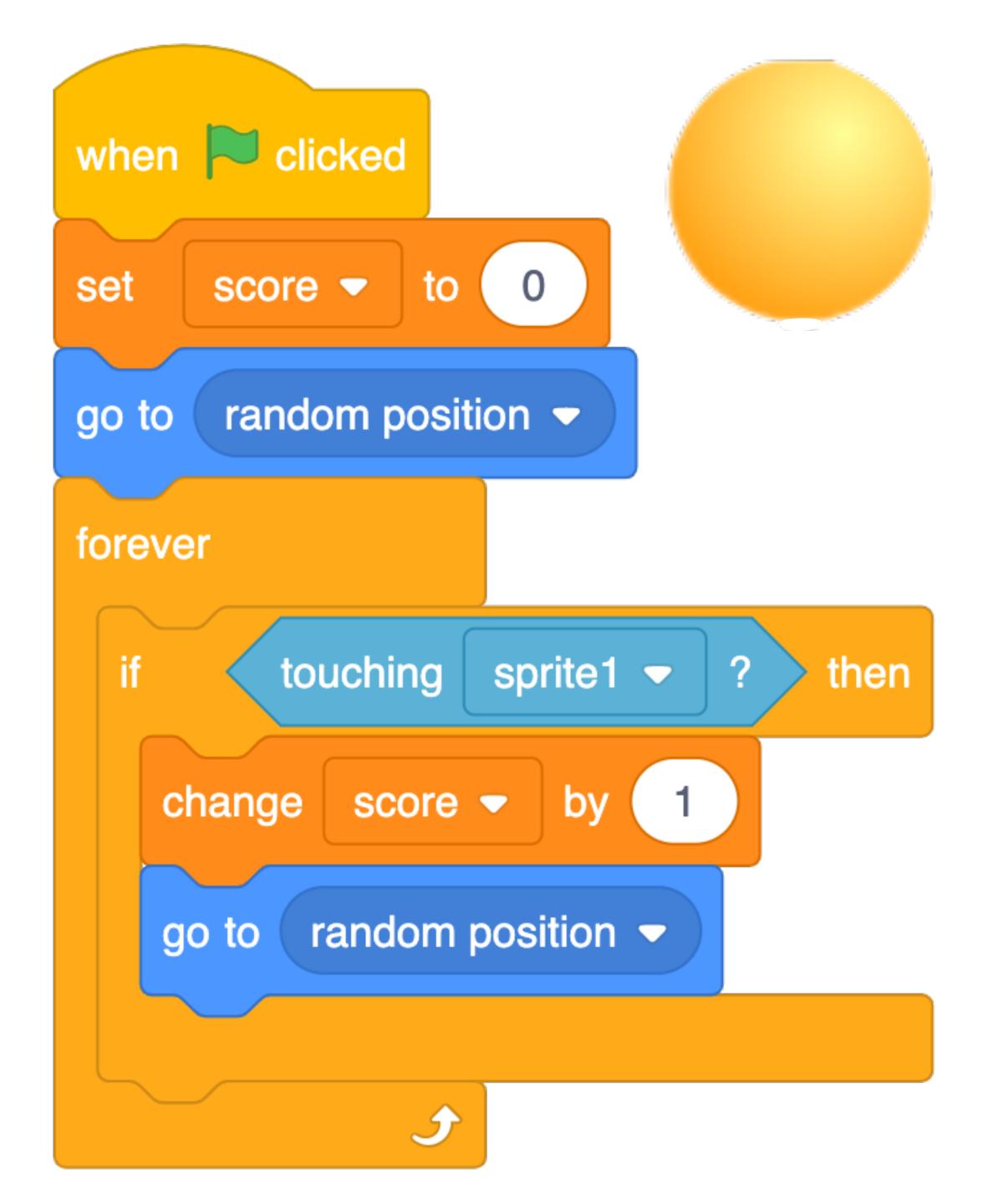




variable change my variable - by 1

Example





Problem Set O

Problem Set O

Scratch

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