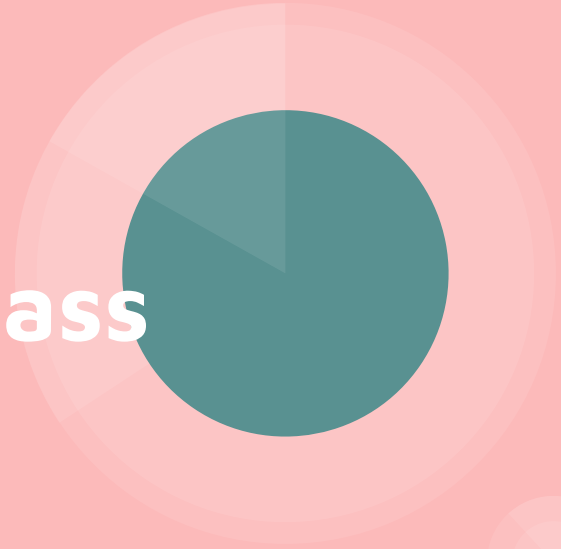


Coding 100, Scratch Class

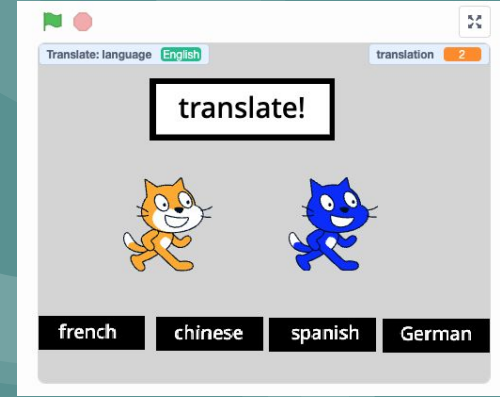
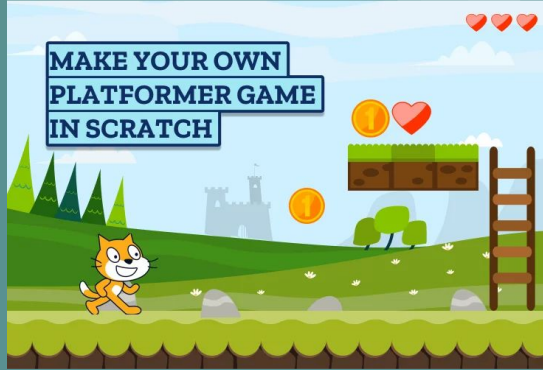
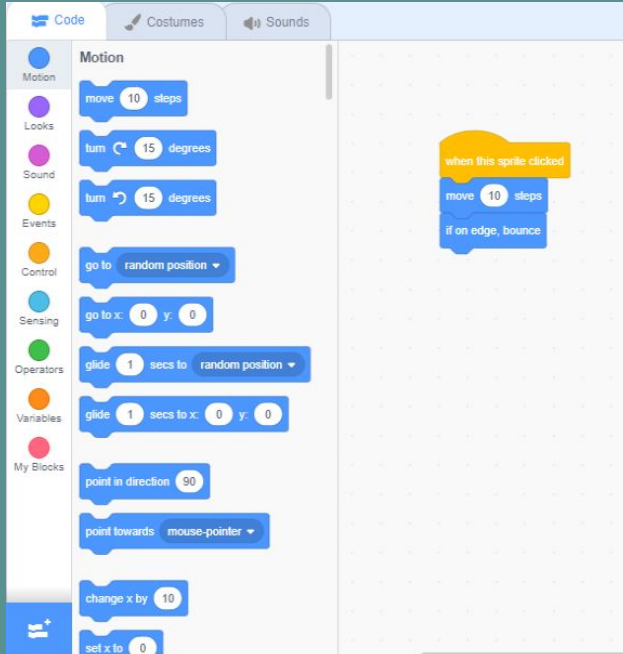
The Green Flag, Motion, and Pen Tool



What is Scratch



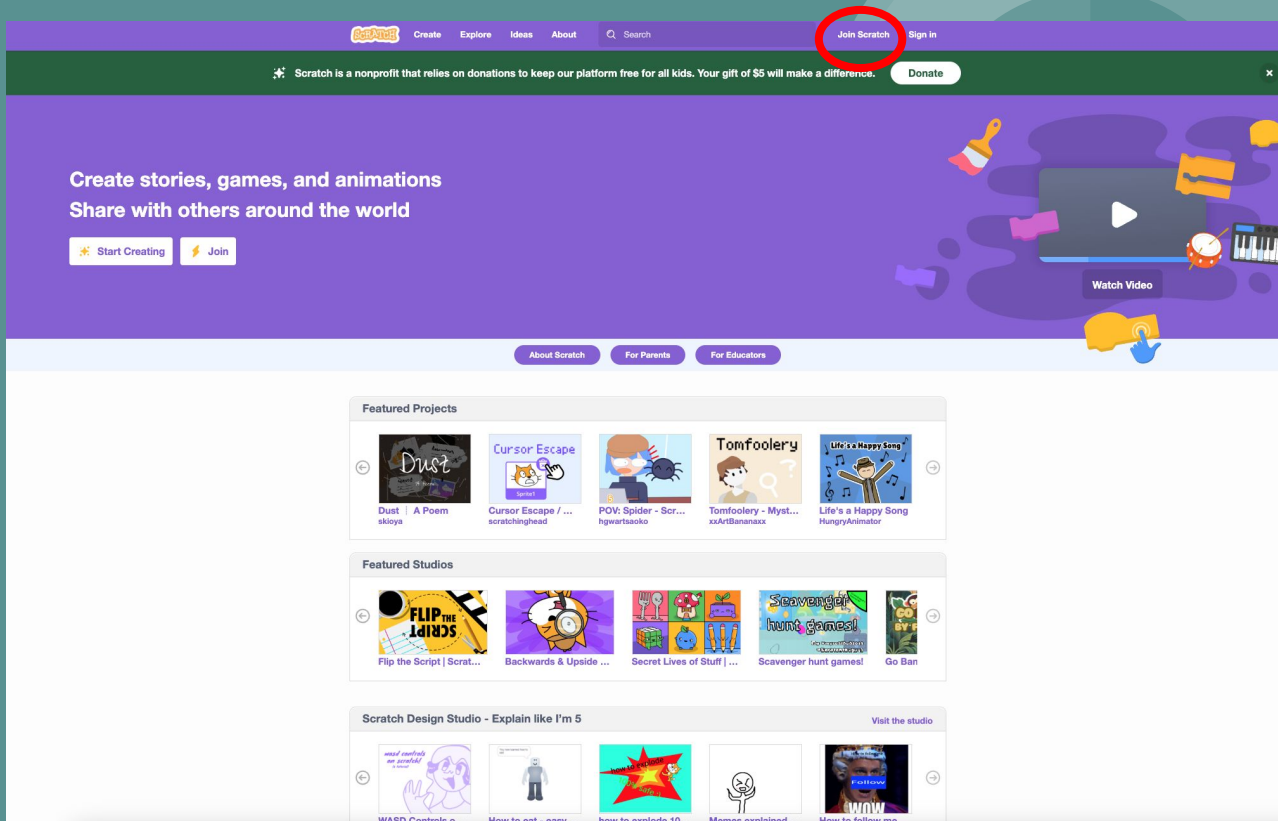
A place to create stuff with simple blocks



Website Link: scratch.mit.edu



Create an account for scratch



Create an account for scratch

Join Scratch

Create projects, share ideas, make friends. It's free!


Create a username

Create a password

Type password again


☒ Show password

Next



What country do you live in?

Next

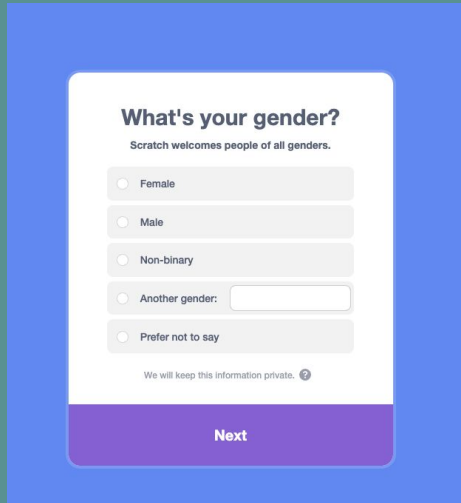


When were you born?

We will keep this information private. ?

Next

Create an account for scratch



What's your gender?

Scratch welcomes people of all genders.

☐ Female

☐ Male

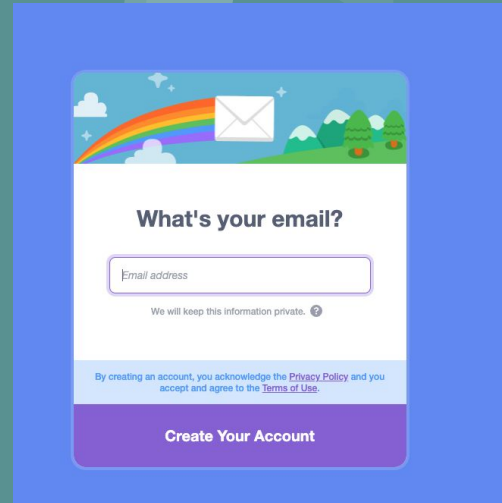
☐ Non-binary

☐ Another gender:

☐ Prefer not to say

We will keep this information private. [?](#)

Next



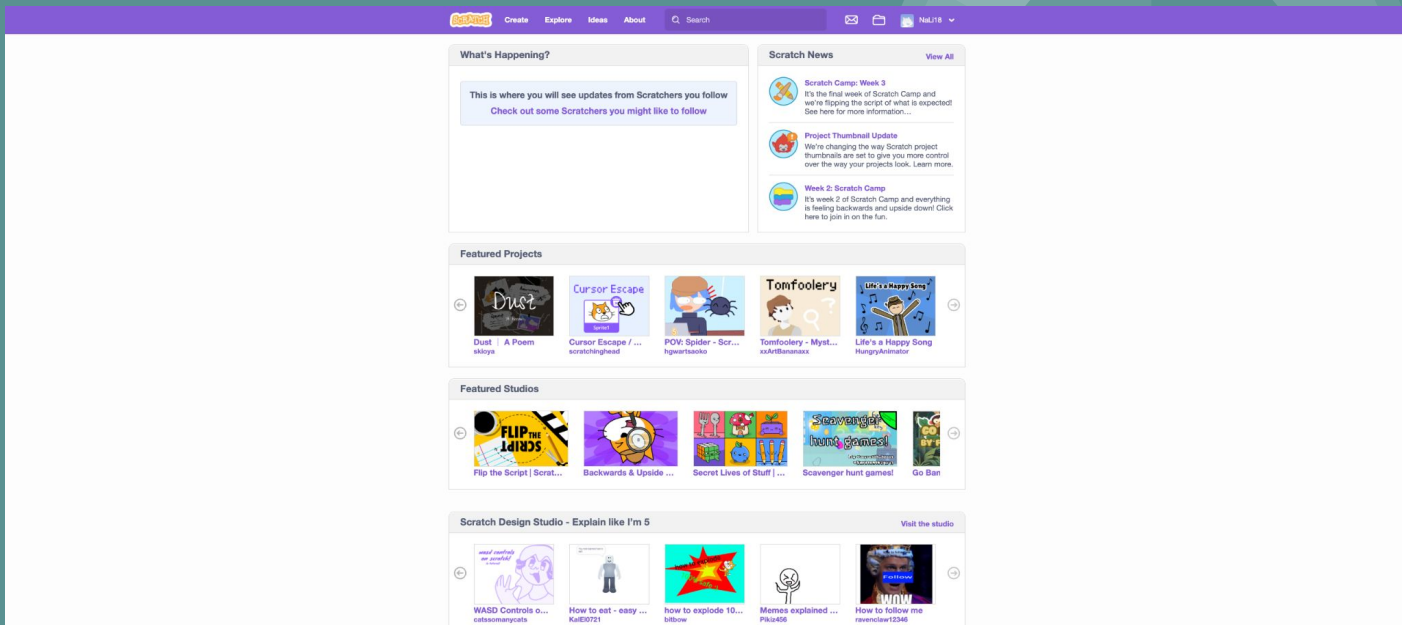
What's your email?

We will keep this information private. [?](#)

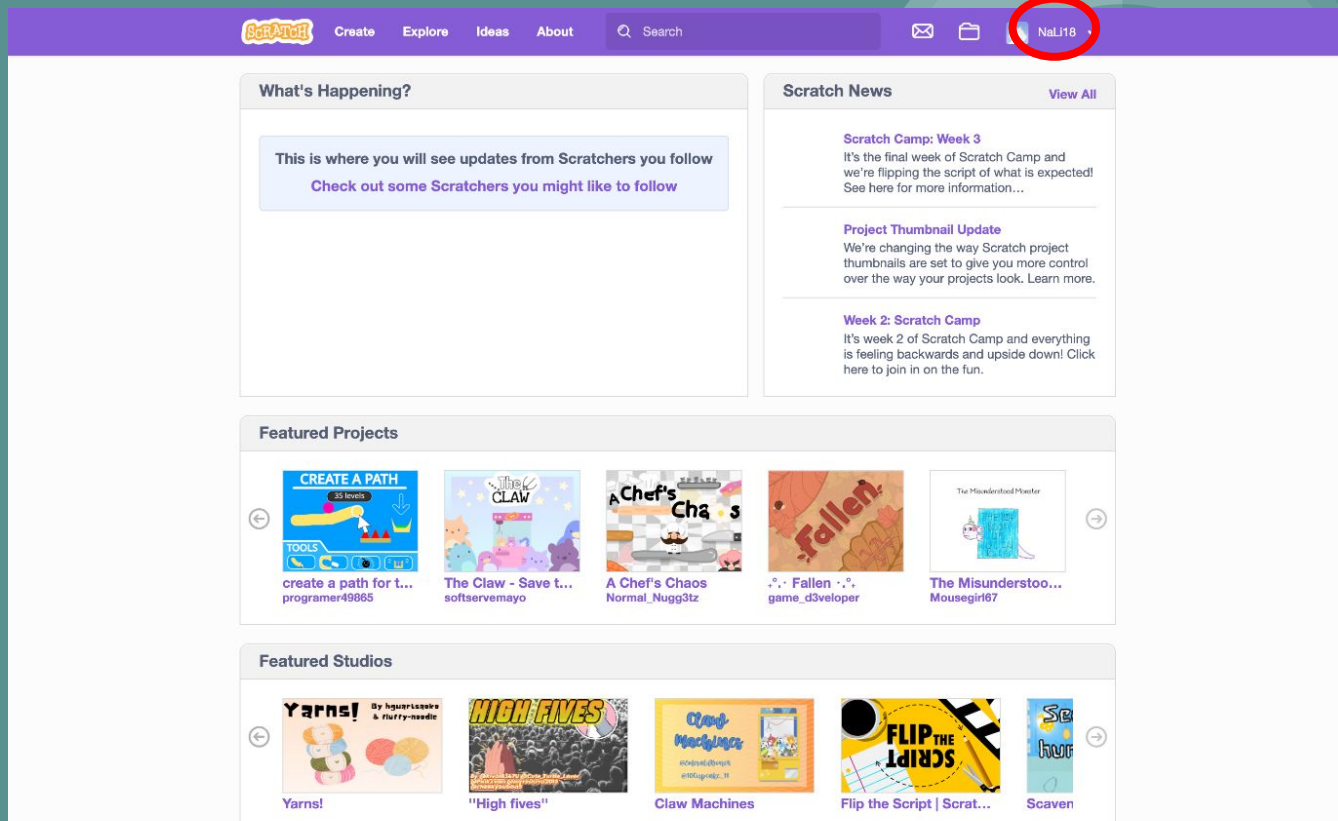
By creating an account, you acknowledge the [Privacy Policy](#) and you accept and agree to the [Terms of Use](#).

Create Your Account

Front Page



Creating a project



Creating a project

The image shows the Scratch website interface. At the top is a purple navigation bar with the Scratch logo, links for 'Create', 'Explore', 'Ideas', and 'About', a search bar, and user icons for email, folder, and profile (NaLi18). A dropdown menu is open for the profile, showing 'Profile', 'My Stuff' (highlighted with a red circle), 'Account settings', and 'Sign out'. Below the navigation bar, the main content area is divided into sections: 'What's Happening?' with a message about updates and a link to follow Scratchers; 'Scratch News' with articles about Scratch Camp, project thumbnail updates, and week 2 of Scratch Camp; 'Featured Projects' with a carousel of project thumbnails including 'CREATE A PATH', 'The Claw', 'A Chef's Chaos', 'Fallen', and 'The Misunderstood Monster'; and 'Featured Studios' at the bottom.

Scratch Create Explore Ideas About Search NaLi18

What's Happening?

This is where you will see updates from Scratchers you follow

[Check out some Scratchers you might like to follow](#)

Scratch News

Scratch Camp: Week 3
It's the final week of Scratch Camp and we're flipping the script on it. See here for more information.

Project Thumbnail Update
We're changing the way Scratch project thumbnails are set to give you more control over the way your projects look. Learn more.

Week 2: Scratch Camp
It's week 2 of Scratch Camp and everything is feeling backwards and upside down! Click here to join in on the fun.

Featured Projects

CREATE A PATH
35 levels
TOOLS
create a path for t...
programer49865

The Claw
The Claw - Save t...
softservemayo

A Chef's Chaos
A Chef's Chaos
Normal_Nugg3tz

Fallen
Fallen
game_d3veloper

The Misunderstood Monster
The Misunderstood...
Mousegirl67

Featured Studios

Creating a project

The screenshot shows the Scratch website's 'My Stuff' page. The interface includes a purple header with the Scratch logo, navigation links (Create, Explore, Ideas, About), a search bar, and user information (NaLi18). On the left, a sidebar lists project categories: 'All Projects (29)', 'Shared Projects (20)', 'Unshared Projects (9)', 'My Studios (5)', and 'Trash'. The main area, titled 'My Stuff', displays a list of projects. Two red circles highlight the '+ New Project' button in the top right and the 'All Projects (29)' link in the sidebar. The project list includes 'Untitled-3', 'Untitled-2', 'exploding bomb', 'capture power', 'double slit experiment', and 'vector field', each with a thumbnail, title, last modified date, and a 'See inside' button. Some projects also show view, like, and comment counts, along with a 'Delete' link.

All your projects

My Stuff

+ New Project + New Studio

Create new project

Untitled-3
Last modified: 3 minutes ago
Delete
See inside

Untitled-2
Last modified: 11 Aug 2025
Delete
See inside

exploding bomb
Last modified: 3 Mar 2025
Delete
See inside

capture power
Last modified: 30 Apr 2023
2 views 0 likes 0 comments 0 shares
Unshare
See inside

double slit experiment
Last modified: 22 Jul 2024
Delete
See inside

vector field
Last modified: 18 Jul 2024
1 view 0 likes 0 comments 0 shares

Creating a project

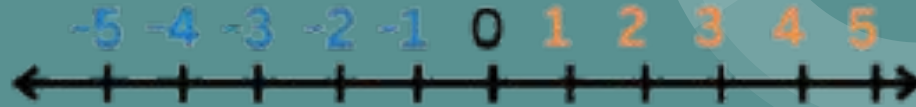
Back to
project page

The image shows the Scratch web interface. At the top, the purple header bar contains the Scratch logo, a settings gear, a file icon, an edit icon, a text input field with "Untitled" (circled in red), a "Share" button (circled in red), a "See Project Page" button, a "Tutorials" button, a "Debug" button, a folder icon (circled in red), and a user profile icon labeled "NaLi18". Below the header, the interface is divided into three main sections. On the left is the "Code" sidebar with tabs for "Code", "Costumes", and "Sounds". Under the "Code" tab, there are several categories of blocks: Motion (move, turn, go to, glide, point in direction, point towards), Looks (change x by, set x to, change y by, set y to), Sound (play sound, stop sound), Events (when green flag clicked, when clicked, when timer starts), Control (when green flag clicked, when clicked, when timer starts), Sensing (when green flag clicked, when clicked, when timer starts), Operators (if, if-then-else, loop, repeat), Variables (declare, set, change), and My Blocks. The center stage area has a light blue grid background with the text "Rename and share" in a large, black, sans-serif font. A small Scratch cat sprite is positioned in the top right corner of the stage. On the right side of the stage, there is a large white area for the background image. Below the stage, there are two panels: the "Sprite" panel and the "Stage" panel. The "Sprite" panel shows a list of sprites, with "Sprite1" selected. The "Stage" panel shows a list of backdrops, with "1" selected. At the bottom of the interface, there is a "Backpack" section.

Coordinate System



This is a number line



This can describe the distance of something

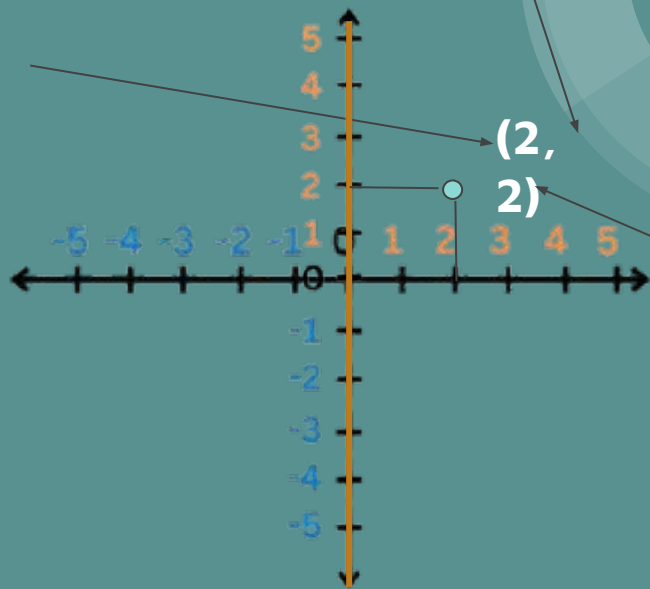
Take a vertical number line



This can describe the height of something

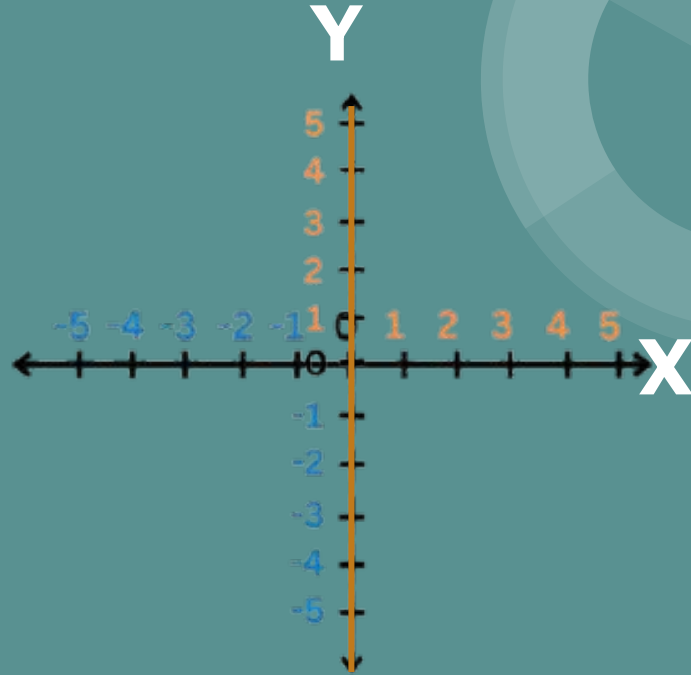
Can describe the position of something

2 units right, 2
units up

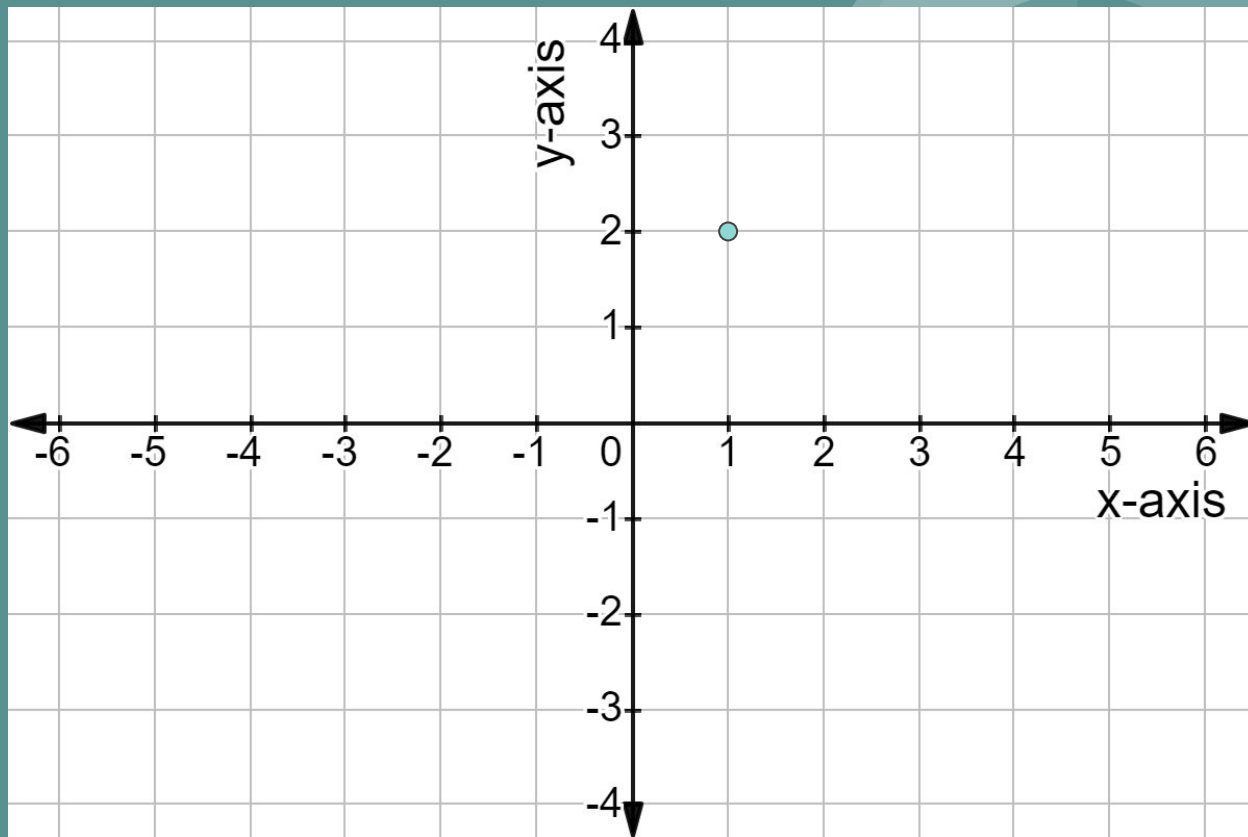


Distance is now X, height is now Y

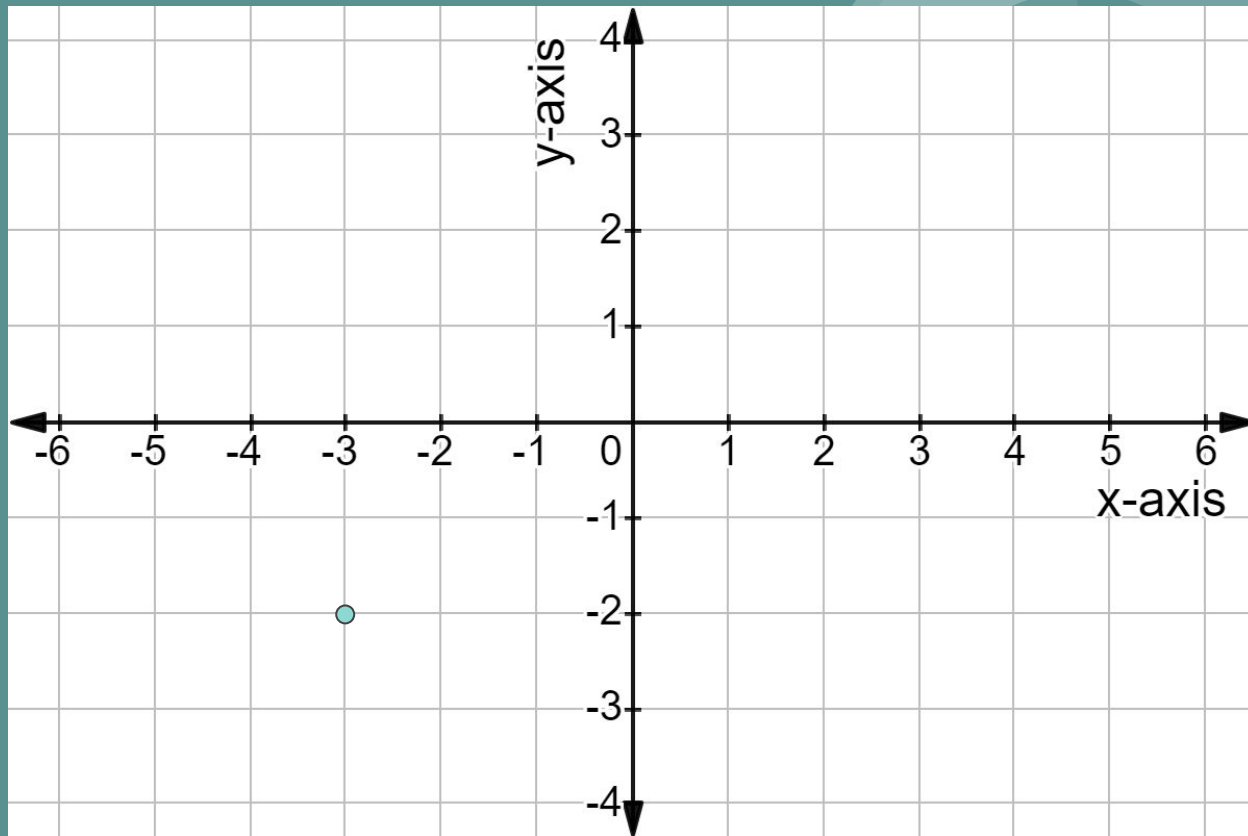
Any point can
be described
as
(X, Y)



In terms of (X, Y), where is the point



In terms of (X, Y), where is the point



Let's get scratching



Recap of what we learned today

- Creating sprites
- How to move and rotate the sprite
- Relate Coordinate system to scratch
- How to draw

Next class

- Looks
- Events
- Control



Teacher code:

<https://scratch.mit.edu/projects/1206291858/editor/>

You can find it on my scratch profile as well