







Note for Faculty

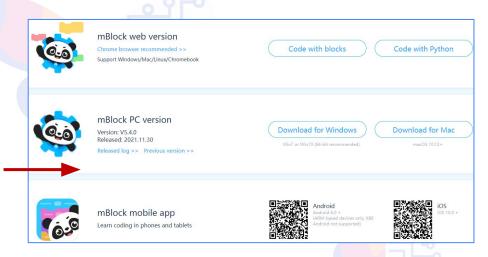
- 1. This is an important lesson. Go over it a couple of times.
- 2. Do not be in a hurry, & kindly spend time on each slide.
- 3. Ask a simple question on each slide before going to the next.
- 4. Help them all with download & installation of mBlock 5 on their PC.
- 5. Show them download on all there platform options.
- 6. Do show them the download & look of Scratch 3.0.





Open your PC/laptop & follow following Steps to Download:

- Select a browser.
- Enter mBlock 5.
- This screen appears.





This offers three options on which it works:

1. This is for on-line Coding. Will need Internet while coding.



2. This will download on PC. It is for off-line coding.



mBlock PC version

Version: V5.4.0 Released: 2021.11.30

Released log >> Previous version >

3. This is for mobile/tab. Scan its QR code to download.



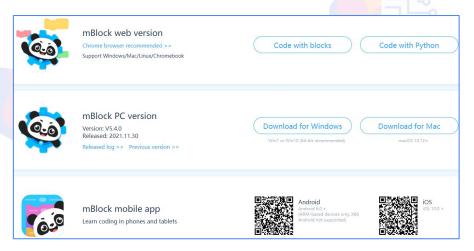
mBlock mobile app

Learn coding in phones and tablets





- Select the desired option.
- Download starts.



Once downloaded, complete the installation by clicking on next.

Once installed, Click on the icon & start coding.

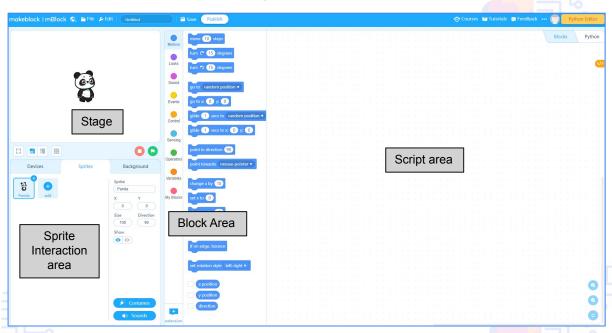


Opening Screen

This is the opening screen.

Its four important areas are:

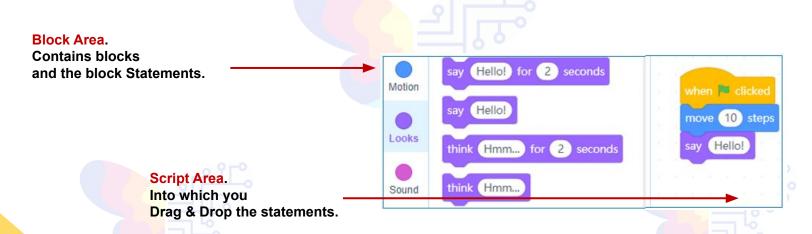
It is also the only screen on which you will do all your coding





Understanding Key Areas of Opening Screen

Initially it is enough to concentrate on the four key areas of the screen





Understanding Sprite interaction area

This line allows us to:

- Select between Devices & Sprites.
- Add Background to the stage.
- Backgrounds are required only when working with sprites.

At this stage we shall focus on Sprites only.

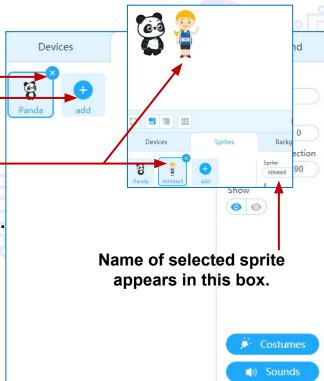


BDS CONNECT



The next three important icons/areas are:

- Icon to delete sprite.
- Icon to add sprite.
- Added sprite appears in the interaction area & in the the stage.
 - We can add any number of sprites.
 - To code, we need to select one of the added sprite.
 - Sprites are coded one at a time.





The next five important icons/areas are:

Devices

8

Panda

Sprites

Background

Direction 90

Sprite

Panda

0 0

Costumes

(I) Sounds

- Positioning of sprite in x/y axis on the stage.
 - Changing size & orientation.
 - Enabling a sprite to hide or reappear on the stage as per the story of the code.

- Making costumes (duplicates) of a sprite as per the story.
 - Adding different types of sounds to the code.

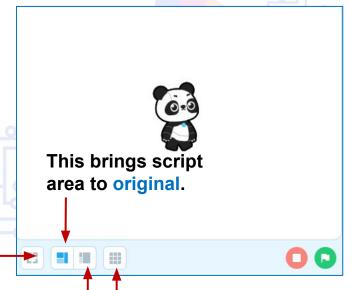


Stage. Area in which Sprite executes the code.

In this:

- Your cursor can move the sprite around the stage. Try doing so.
- The green flag is an Event. We saw this in earlier lessons.
- The red flag is to stop the execution.
- This icon is to enlarge the stage to full size & also to revert back.
 - This icon is to enlarge script area.
 - This gives an overlay of grid lines.

Try them all one by one





Selection of Working Mode

It has two working modes:

- Devices.
- Sprites.

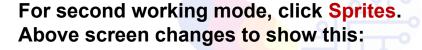
Devices is the default working mode.



It contains:

- Blocks & block statements for devices.
- Default device is Cyber Pi.
- Click on add to view the different types of devices on which you can work & learn from.







In this mode:

- Panda is the default sprite.
- It appears on the stage & here.
- Sprites added later, will also appear at these two places.



To Consolidate

To consolidate:

- Spend time to recap all the icons of Sprite Interaction Area.
- Ask children to download on their device at home & play.





End of Lesson 5



Code Karega India Badhega

