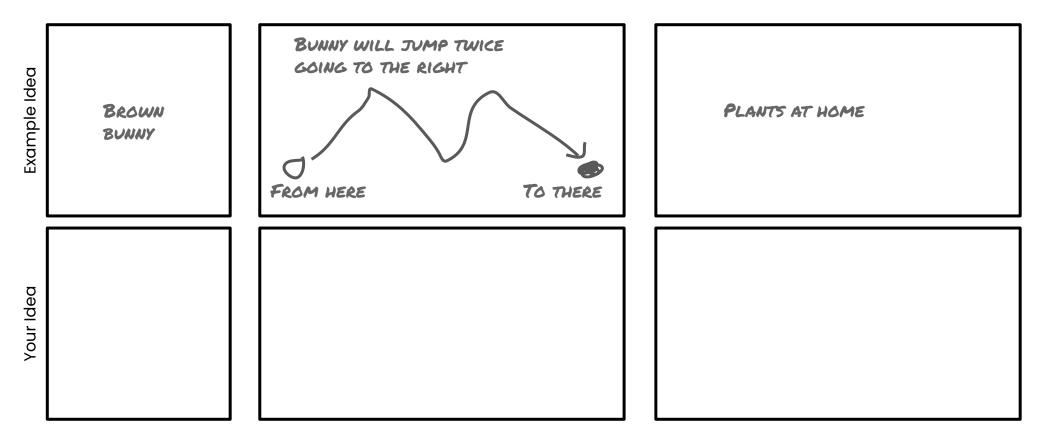


[For Kids] **Brainstorm & Draw**

- 1. We're going to make your draw? (character/object)
- 2. Your drawing will appear on the screen. drawing move! What you want to How do you want to make it move? Draw a path your drawing will follow. Where are the starting and end points?
- 3. Think about background scene your drawing will be overlaid. You can draw it or use your physical environment.



Code

Using paper coding blocks, create code to make your drawing animate as you have designed.

Scan & Play

Using a mobile device, scan your code and run the program. Play it over a background scene you choose or draw. Record and share it!

Cheat Sheet [For Parents]

Things Needed:

*Please make sure that you have all of them listed below before the study session

- Printed and cut out paper coding blocks
- Blue washable markers (for filling color in grid cell)
- Color pens (for drawing)
- iPhone with a camera
- Download Zoom Cloud Meetings app on iPhone
- Download Zoom on laptop/tablet (https://zoom.us/download)
- Link: hyeijnim.github.io/draw2code or use the QR code. Open the link below in **Safari** Browser, in **landscape** mode on iPhone



Parent/guardian's Role in the Study

with any questions

the light condition, and try it again. Feel free to reach out to the researcher

- Support and encourage your kid to complete tasks
- using a mobile device Offer guides or teach how to do when your kid is struggling with coding or
- Play with your kid together if they want
- Adjust camera for Zoom recording

What Your Kids Will Do with the Draw2Code Kit:

Draw2Code kit. Kid's drawing will appear and animate on the screen. Kids are going to learn how to create augmented reality animation using the

- **Brainstorm** what to create
- **Draw** a character or object to animate
- $\stackrel{\cdot}{\omega} \stackrel{\cdot}{\nu}$ the screen using coding blocks at the tabletop. Code to deciding when, where, and how the drawing will appear on
- *See "About Blocks" section
- 4. overlaid on the real-time video feed. the program using a mobile device. Kid's drawing will appear Once kids are done with coding, scan all the coding blocks and run
- <u>ა</u> Control the virtual sprite using a gesture seen through a camera
- camera to show themselves. the animation with a desired background scene. Kids can switch a Choose a background scene that goes well with their animation. Play

About Blocks:



Sprite Block:

draw a character or an object in the empty area on it To create a virtual sprite that will be animated on the screen,



Event Block:

To trigger your sprite to animate, decide what event you will use

Showing the hand sign to a camera

→ Hitting the play button on the screen



Action Block:

to fill in the grid with color. The size and position of blue square will match where the sprite will appear on the screen To design each frame of animation, use a blue marker