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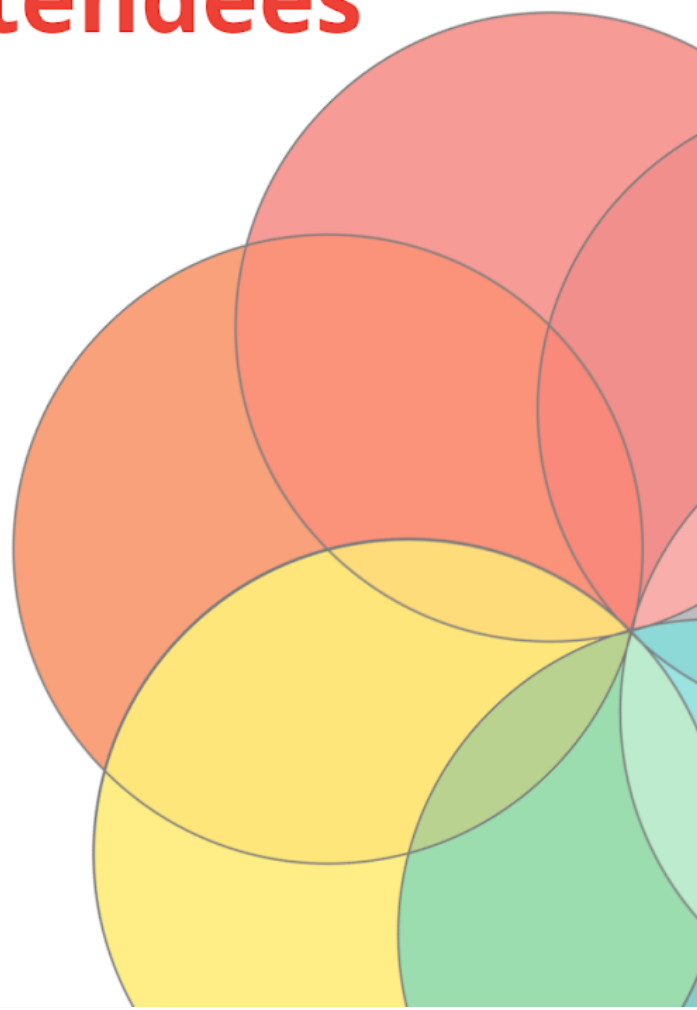
 national science week 2021

# Brave Bot workshop

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**Handout for attendees**

**Innovate**  
Communicate



# Brave Bot online workshop next steps...

Submit a story about your bot. Visit the Brave Bot Workshop: [Submissions page](#).

Tips and tricks below AND there's also [extra resources in a Google folder](#).

If you missed the workshop or want to watch it again, see it on the website (<https://bit.ly/BraveBotNSWk21>).

## How to make a bot

1. Make big shapes first (head, body)
2. Add the body, use colours and make circle for tummy/smiley face
3. Finalise the details like eyes, mouth, teeth
4. Put your name on the back
5. Do animation / take photo with your bot & share on socials: #innovcomm #botjoy #scienceweek. Tag @innovatecommunicate & @botjoy.

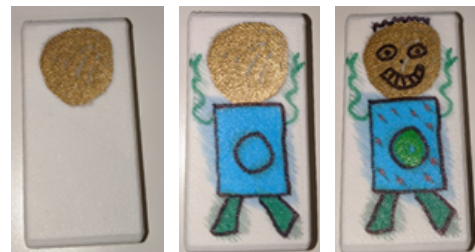


Image source: Gary Hirsch

Check out Gary Hirsch's step-by-step guide to creating a bot using all sorts of different things (for example, you can use a rock, some paper, a peg... whatever you think!)

[Spread a little Bot love! - Create More, Fear Less](#)

# Top tips for telling your robot story

- Think about who your characters are going to be. What are their personalities? What do they look like? How are they powered (e.g. battery, solar, chemical, wind)? Who are they helping?
- What is going to happen in your story?
- Props: robot, other characters, things your robot/s will interact with
- Background (a plain white desk works well and you can shoot from above)
- Hardware: phone or tablet with a camera, light if needed.
- Technology: download an app like [Stop Motion Studio](#).

## One quick way to plot a story

Once upon a time there was a robot...

Every day (what do you want it to do?)...

One day...

Because of that...

Because of that...

Because of that...

The end.

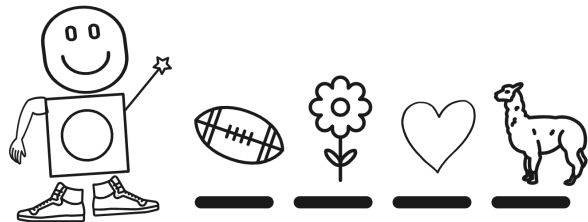


Image source: Claire Harris

Find a storyboard template in the [Resources folder](#).

## Other things from the presentation

- [Check out the Brave Bot Workshop playlist](#) (YouTube, Innovate Communicate)
- [Robot-assisted surgery with Da Vinci](#)
- [The “shark,” an electric vehicle that traverses waterways, autonomously gathering up plastic waste](#)
- [Cobalt robot](#) and an [article about robot security guards](#)
- Article about Goterra [This Australian Founder Is Tackling Food Waste With Robot-Managed Maggots](#) (in Forbes)
- [Canberra company takes robot presence to the world](#) (Robots4Good story)
- [How Boston Dynamics Taught Its Robots to Dance](#) (background on the dancing robot)
- [Game Candy](#) (3D-printing).

# Links to some great stop motion animations

- [Stop Motion: A beginner's guide](#) (from DCVIZ)
- ABC episode, [Playschool Art Time Down on the Farm \(episode 15\)](#) where Matt makes a stop motion animation using a tablet; see [Educator Notes here](#)
- Playlist of 10 videos from BrainCraft: [Science in Stop-Motion](#)
- 30 best stop-motion animated movies of all time ([Rotten Tomatoes](#))
- Fantastic Mr Fox Featurette. [Short video on YouTube](#) showing the clay animation behind-the-scenes
- [Stop Motion Resource](#) from AFTRS Media Lab provides accessible media arts resources to Australian primary and secondary teachers and students to help build core creativity and storytelling capabilities that will be required for the jobs of the future
- Tips from TinkerLab: <https://tinkerlab.com/easy-stop-motion-animation-kids/>
- [Stop Animation activity from SciTech.](#)

## Something a little different:

- [How to Make Origami Robots.](#)

## Need more information?

[bit.ly/BraveBotNSWk21](http://bit.ly/BraveBotNSWk21) will take you to the Innovate Communicate website. And of course check out: [www.botjoy.com](http://www.botjoy.com)



We look forward to seeing what you come up with. Be curious, create a bot and share joy.

Follow along:



This National Science Week project is supported by the Australian Government.

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The screenshot shows the website for 'Brave Bot Workshops' by Innovate Communicate. The header includes the logo and navigation links: Home, Portfolio, Contact, About, News, Clients. The main content area features a grid of colorful, hand-drawn robot illustrations. Below the grid, there is a call to action: 'CHECK OUT THE UPCOMING FREE, ONLINE SESSION'. A section titled 'Free National Science Week workshops' includes a note that face-to-face workshops are postponed and an online session is scheduled for 11am 21 August. A green button says 'REGISTER FOR ONLINE BRAVE BOT WORKSHOP HERE'. A quote from Gary Hirsch, Artist, Illustrator, BotJoy, reads: 'MAKE A ROBOT. FEEL MORE HUMAN.'