

Say hello in the chat! →



We will be recording!

PLIX (Public Library Innovation Exchange) is an education outreach project at the MIT Media Lab. Participation in the project generates data that will allow us to evaluate and improve the project's design. The design comprises activities and experiences training public library staff to facilitate creative learning activities in STEAM.

Note: Participation in chats, notes, + surveys is voluntary: you may skip any or all questions or decline further participation without consequence. We assure all participant's confidentiality and/or anonymity.

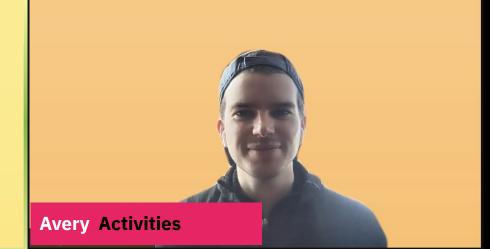




Community Gathering











What's next?

the rest of today's session

From the Forum

Group Conversation + Q&A

Techniques: Celebrate the Process

Peer Breakouts

Shareouts

Looking Ahead / Wrap-up

From the Forum

heyplix.media.mit.edu

Lots of discussion about examples

An idea I have been thinking about this week is providing examples and prompts that allow for **multiple** access or entry points. - Claudia H.



That idea of the sweet spot in an example was revelatory to me. The idea that it doesn't need to be and in fact shouldn't be a perfect example of a fully formed idea so that's it's more inspirational of divergent ideas is something I've been chewing on ever since. - Michelle

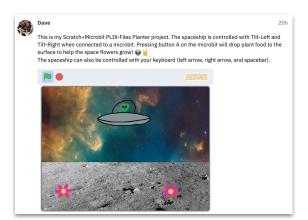
What about having the examples only out for a short amount of time. Maybe five or ten minutes, depending on the age group. Then they would be able to see them, move them around a bit before they got started.

- Susan F.

From the Forum

heyplix.media.mit.edu

Make'n'Meet Week 2 Examples





PLIX Files Plants by bassbookguy



Page Garden Water No... by Kpage1224



Intergalactic Garden S... by gvyslp



Intergalactic Garden - ... by EN42



PLIX FL Superhero by RobotsInTheLibrary



Jumping Space Trees by carat18

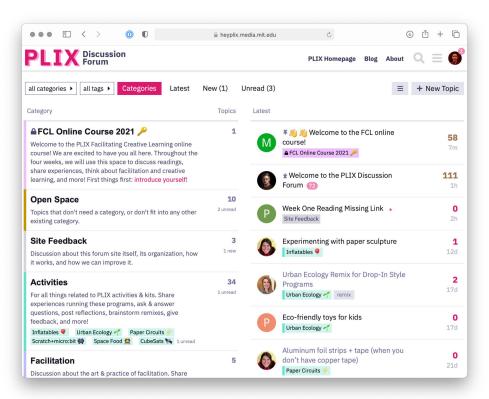


Don't Touch The Plant! by claudiathelibrarian



PLIX | Intergalactic Gar... by averymsnormandin

PLIX Community of Practice



heyplix.media.mit.edu

PLIXConversation Starters

This Week's

Q&A



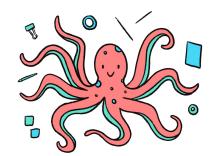
Facilitation Techniques

Week 3

Celebrate the learning process, not just the finished product.



Don't touch the tools!



Avoid technical jargon.



PLIX

FACILITATION TIPS

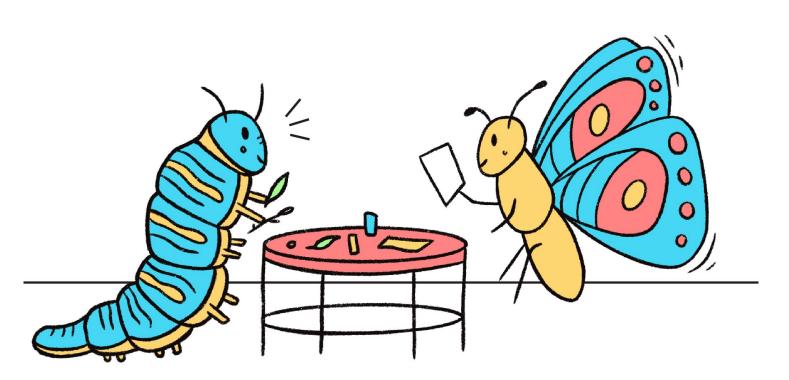
PLIX

FACILITATION TIPS

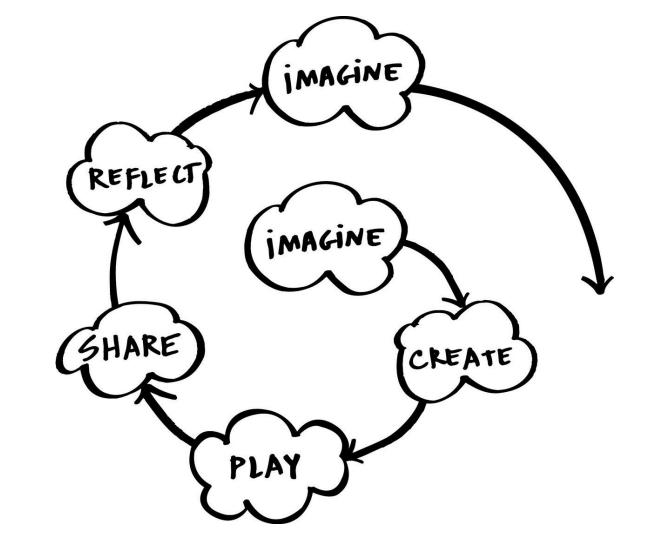
PLIX

FACILITATION TIPS

Celebrate the learning process, not just the finished product



Creative Learning Spiral

















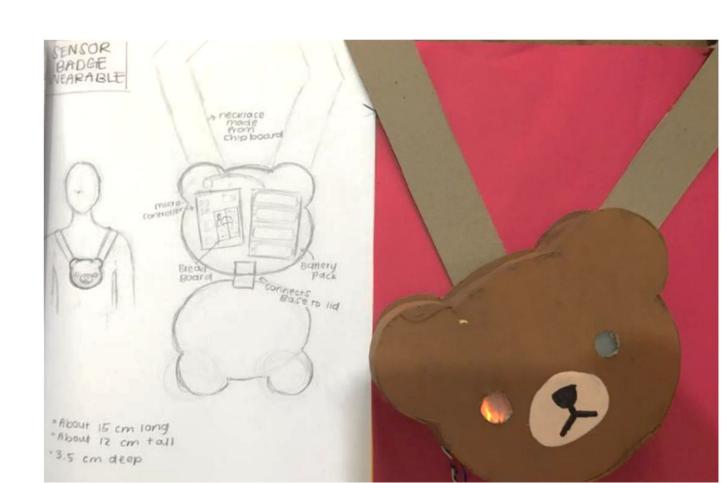






Process Slides

Future Humans project at Queens Public Library on Rocket.chat

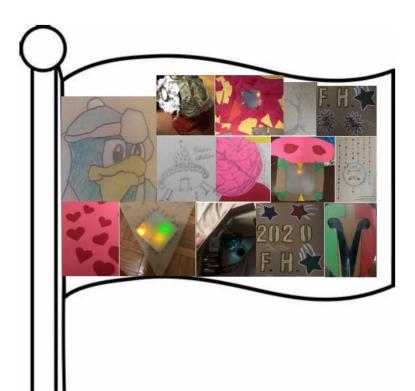


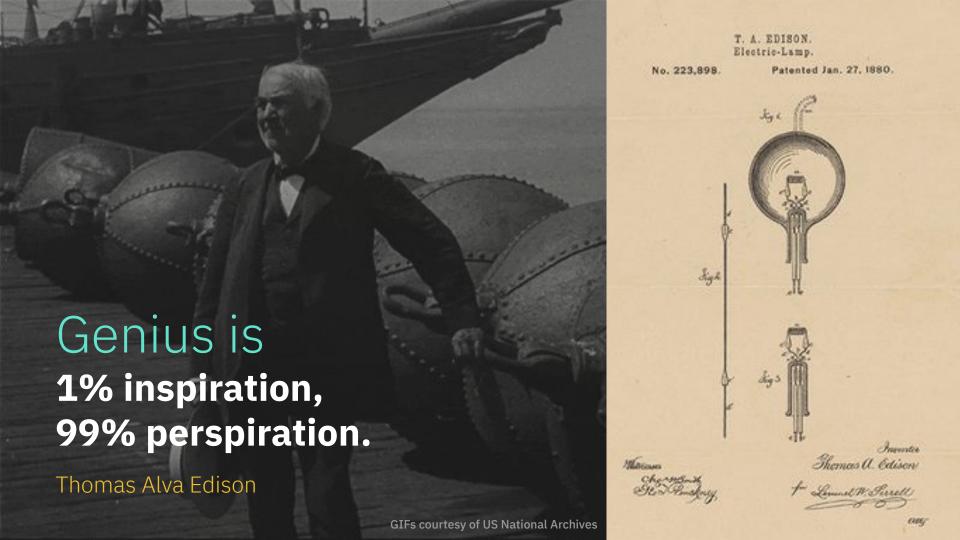
Process Slides

Future Humans project at Queens Public Library on Rocket.chat











An easy way to test if an LED (or battery) is still working is to touch Testing an LED or Battery

An easy way to test if an LED (or battery) is still working is to it the LED directly to a battery! Make sure the longer LED leg is tine LEU directly to a partery! Make sure the songer LEU leg is fourthing the (-) side.

Touching the (+) side and the shorter LED leg is fourthing the (+)

Lighting up more than 1 LED

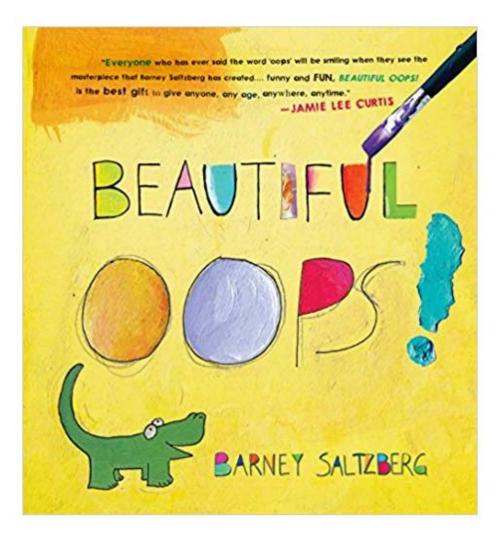
There are two ways to light up more than 1 LED. If you want to use just 1 battery, you'll need to make a maralled affector which means that all the 1 Eria! Increase large are commented to the There are two ways to light up more than 1 LED. If you want to use just 1 ballery, you'll need to make a parallel circuit, which means that all the LEDs' longer legs are connected to the battery's (-) side.

There are two ways to light up more than 1 LEDs in the LEDs' shorter legs are connected to the battery's (-) side. to make a **parallel circuit**, which means that all the LEDs' longer legs are connected to the battery's (-) side battery's (-) side. You could also chair LEDs together to make a series circuit. but this will require extra batteries! Learn more about parallel and series circuits at: Chibitronics.com/parallel-and-series-circuits

Parallel Circuit

This configuration will work with one 3V battery. The battery will deale faster the more LEDs you This configuration and not work with one 3V battery. The circuit requires more voltage to complete the

and atterent color LEDs in your circuit, make sure they require the same voltage! Using Different LED Colors Together more copper

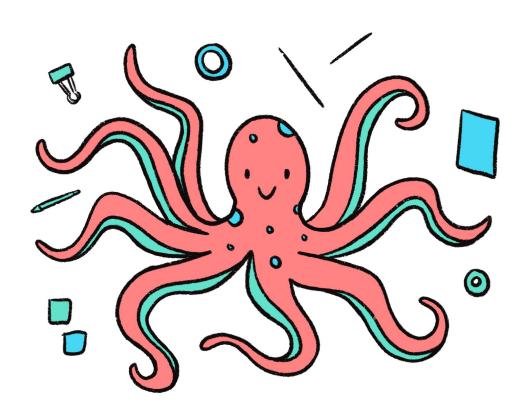




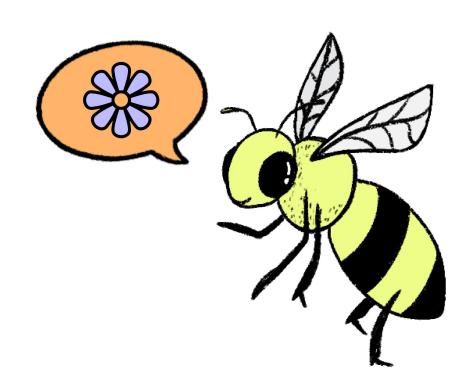
flickr / Steve Berry / TV Cream Toys



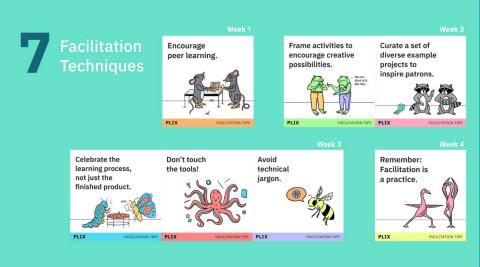
Don't touch the tools!



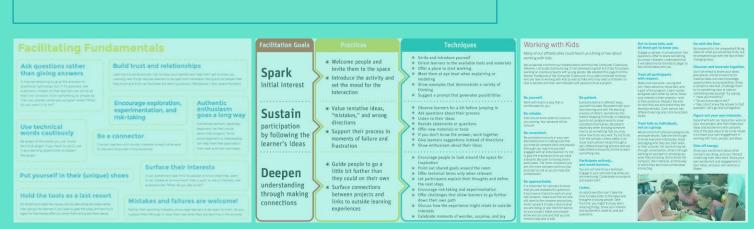
Avoid technical jargon



Guides for Facilitating Creative Learning



Others from this week's reading



Family Creative Learning

The Tinkering Studio (Exploratorium)

The Clubhouse Network

Breakouts

Share your name & library

Discuss examples how you might use creative learning facilitation techniques in your context



This Week's Content

Things to Think With (Reading, Listening)

We've identified some readings that relate to the themes of the week. Read as much as you have time to read and head over to the PLIX Forum to share your thoughts.

Recommended Core Doing / Reading / Listening



Patron Participant Persona Simulation
We developed this training activity so you get a chance,
to practice facilitating an activity while not feeling lie
expert and (2) to build empathy among facilitators
learners who may approach an activity differently
would. (Read more about the original, live and in
version here.)



Choose your own facilitation adventure using Google form.



Facilitating Fundamentals by Ricarose Roque and Saskia Leggett / Family Creative Learning initiative (2017, 1 page)

These were developed through reflection and discussion with facilitation teams across Ricarose Roque's Family Creative Learning workshops, page 19 of the Family Creative Learning Facilitator Guide



"Working with Kids" adapted from the origin Clubhouse Network pages 38–37 in the Mai-Affiliate Site Playbook (2015, 2 pages) The Clubhouse is a more youth-focused incu-MIT Media Labs't hinking about creative learning



Facilitation Field Guide by The Tinkering Studio of the Exploratorium (2020, 1 page)

Our guest in last week's Conversation Starter, Luigi Anzivino, was one of the researchers who contributed to

plix.media.mit.edu/events/fcl-2021/week-3



"Getting Stuck", pages 80–83 in Best of Both Worlds: Issues of Structure and Agency in Computational Creation, In and Out of School by Karen Brennan (2012, 4 pages) This includes a rarely seen passage from a letter Seymour Papert and her observations describing and it

PLIX Activity Repository Spotlight





Paper Circuits by the PLIX Team in colla (2019, 6 pages) As you read through the activity, think about

As you read through the activity, think about apply this week's facilitation techniques. How captrons do the work and not touch the tools? How mignivous keep the language newbie-friendly and jargon-free? How would you navigate your patrons getting stuck, and celebrate their process, not just the finished project?

Deeper Dive Reading (Optional)

Essays on Teaching and While grounded in form

learning facilitators!

observations of a though

- "Hard Fun": a section in this expended of the second of the second
- We recommend just the storead the whole book s

 "The Having of Wonder (Optional)
 - (optional) (Wonderful Ideas and Other rth (1987/2006, 14 pages) e Piaget-influenced lial to generations of creative
- "Ten Tips for Cultivating Creative,
 Mck (2019, 5 pages)

 Some of these tips overlap with the seven facilitation techniques we've emphasized throughout this course, or with the Exploratorium's Facilitation Field Guide linked above.
 What's additionally interesting here is how Resnick aligns his tips with the creative learning spiral.



Personas



Patron Participant Persona Simulation

CHOOSE YOUR OWN FACILITATION TECHNIQUE: Exercise your facilitation skills with this simulated workshop. There are no right or wrong answers to this exercise, and we may use aggregated and anonymized results from all those who give it a try!

Part 1: See the Room

Here's a chance to exercise your facilitation techniques. Imagine that you are facilitating your first creative learning workshop. You have prepared examples and set up the room ideally. You've introduced the PLIX Paper Circuits activity to a roomful of patrons, framing your activity with a very evocative prompt.

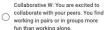
Everyone is busily working on their projects. Let's get this party started!



Part 2: Take a Seat

Now you have a chance to be the participant instead of the facilitator. You can write a scenario, too... Take a seat and choose a patron participant persona. Pick one of the following to match your mood or the mood of a patron you find especially challenging. Or chose "Patron π " if you want to make up your own personal







Patron π: I'll make up my own persona!



Passionate K: You're very passionate
about a specific interest—maybe it's
basketball, or Beyoncé, or Pokémon,
or the color purple.



Grooving Z: You are engaged and inspired by the project. You feel very connected to the activity.



Unsure Q: You are unsure of expectations. You are expecting (and waiting on) clear instructions from a teacher on exactly what to

Example Persona



You have a clear goal in mind but you struggle to create what you envision. When you encounter a roadblock, you are easily frustrated.

- You don't realize that there is a lot of support (examples, guides, peers, etc.)
 around.
- You may ask multiple questions about the same problem you are having.
- You may need something explained to you in a few different ways.
- When something doesn't work as expected, you may blame it on the material being broken, rather than trying to troubleshoot.
- You may need someone to show you the variety of support materials and resources available before you try to use them.

Make'n'Meet

Every Thursday 3pm Eastern on Zoom!

This Week: Flickering Fashion!

Light up your lunar wardrobe with paper circuits!

What will you wear to the cosmic picnic in the intergalactic garden?



What to bring this week. . .



LEDs critical



coin cell battery critical

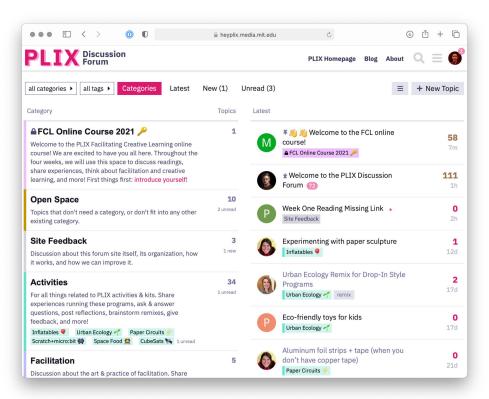


metal clips suggested



copper tape recommended (can use aluminum foil)

PLIX Community of Practice



heyplix.media.mit.edu



Tuesday, June 1 12–2pm ET April 26-May 21, 2021

Thank You!

See you on the PLIX Forum, at the Make'n'Meet, and/or next Tuesday!



April 26-May 21, 2021

Mingling

Stick around if you'd like to chat informally!

