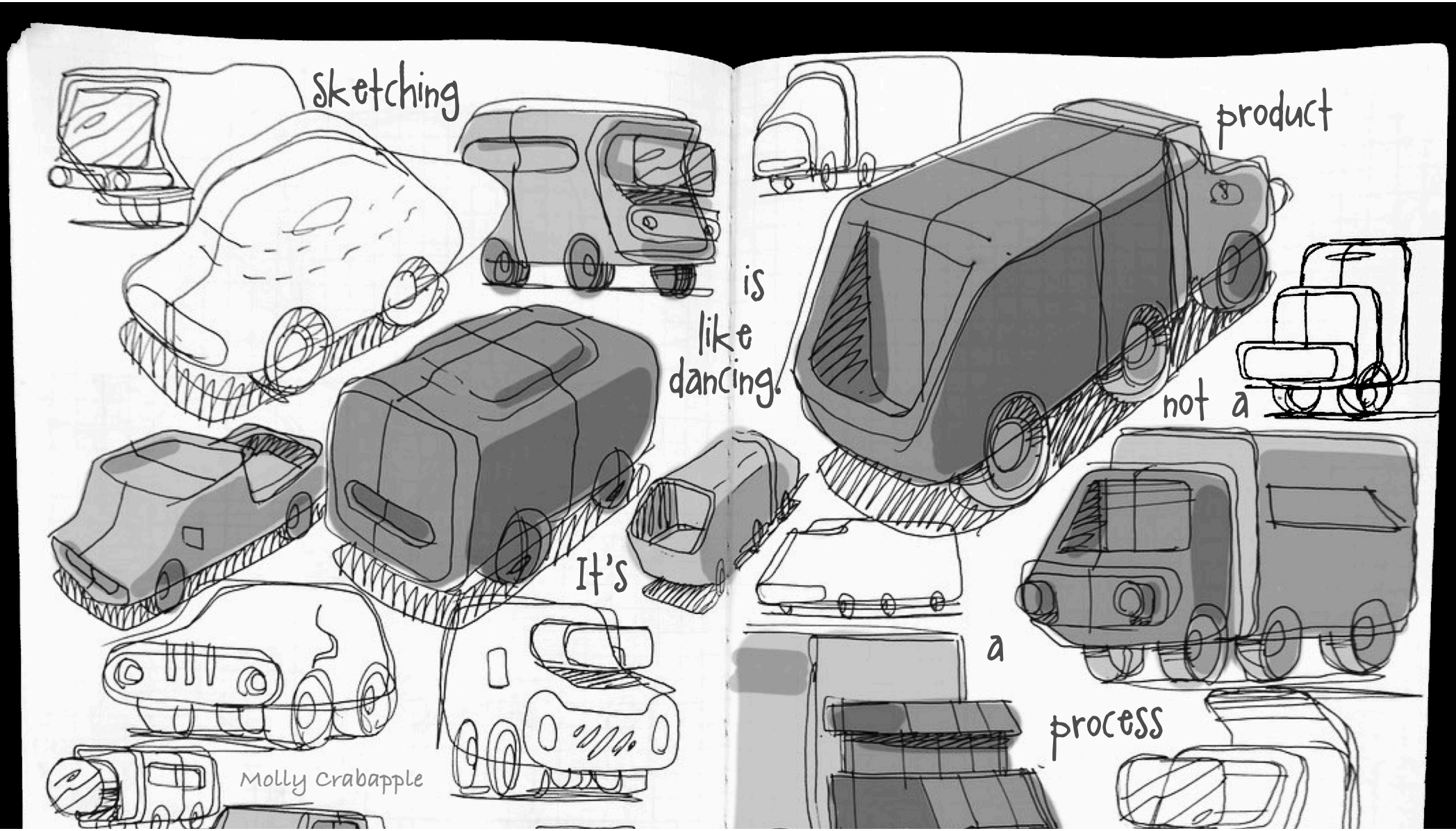
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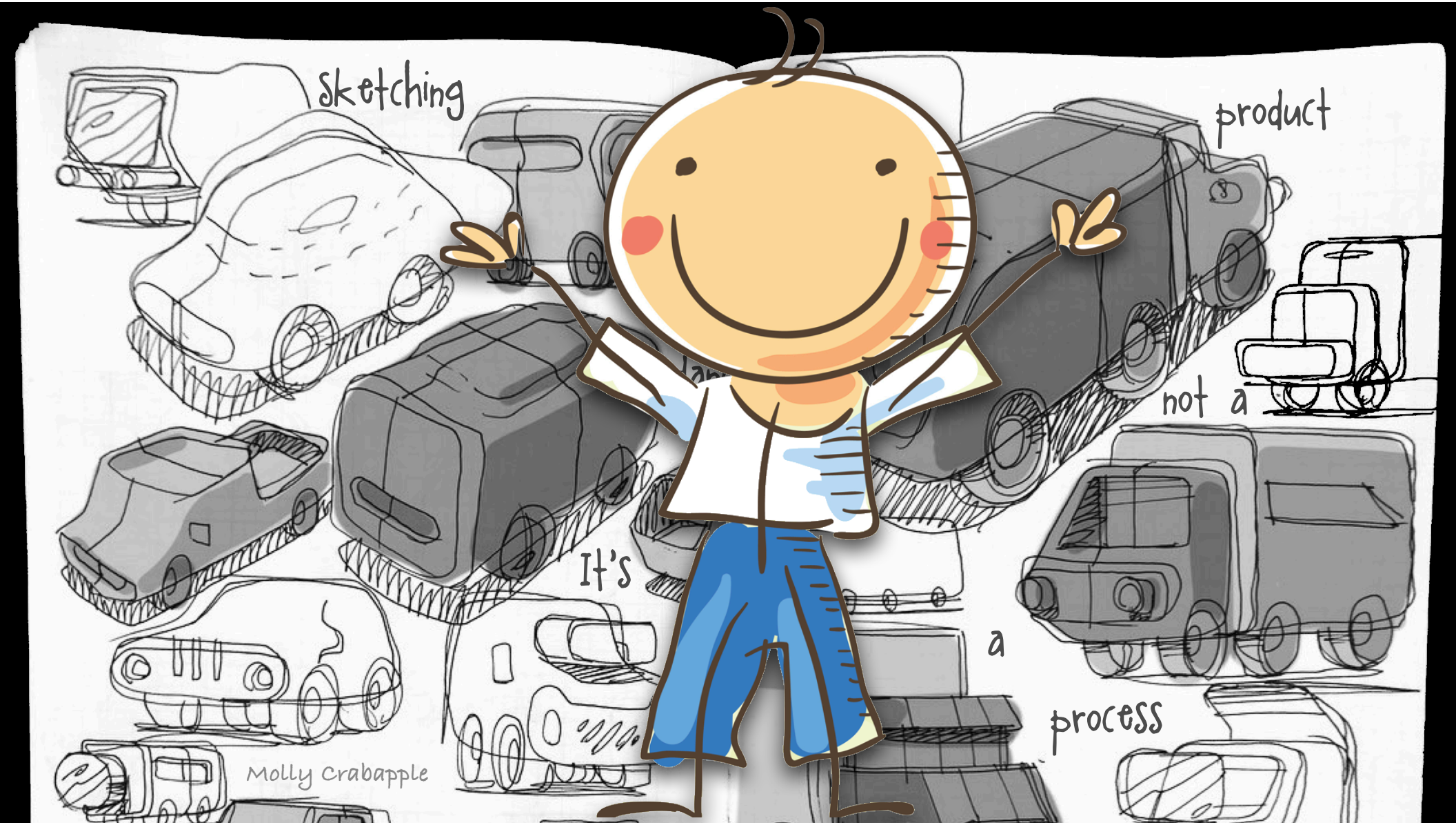
Molly Crabapple


Sketching
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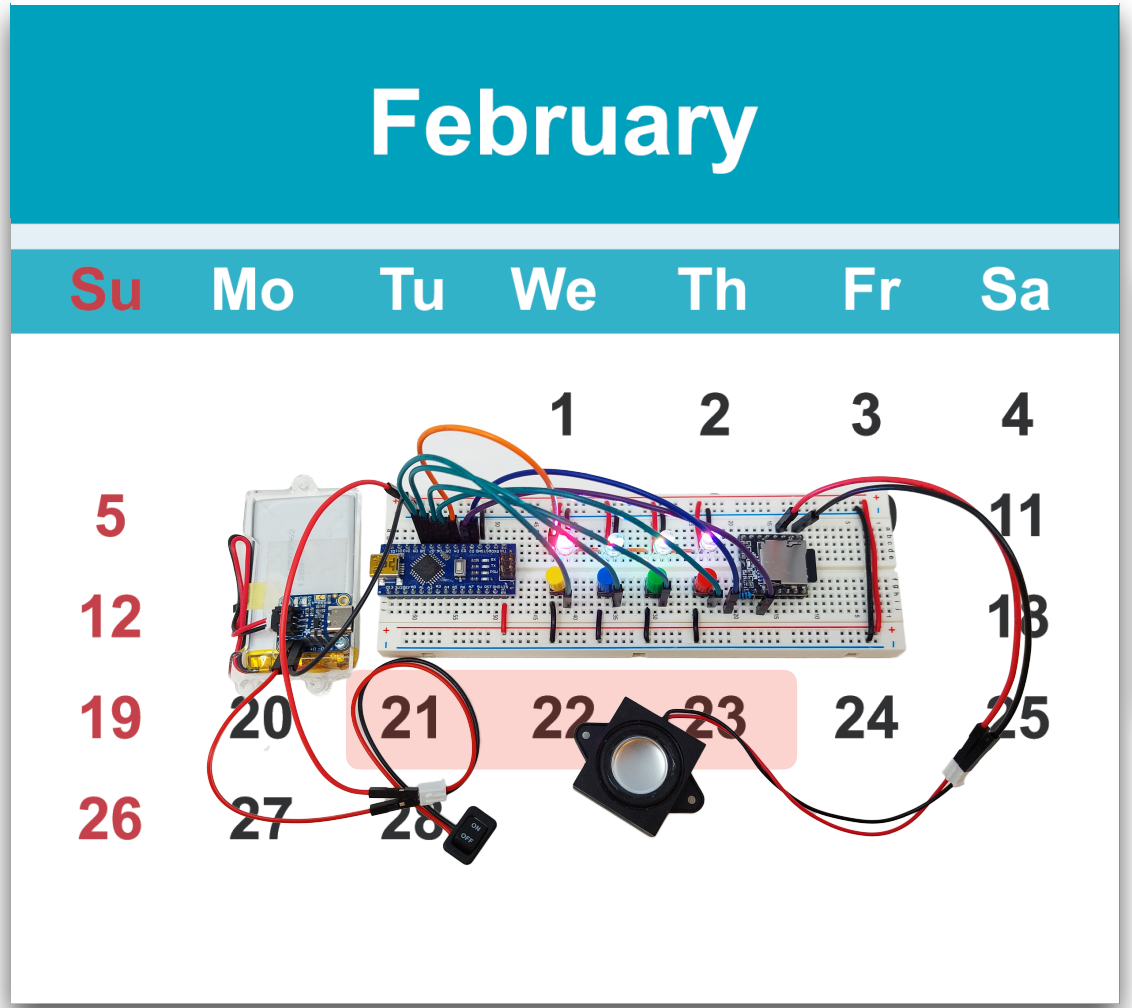
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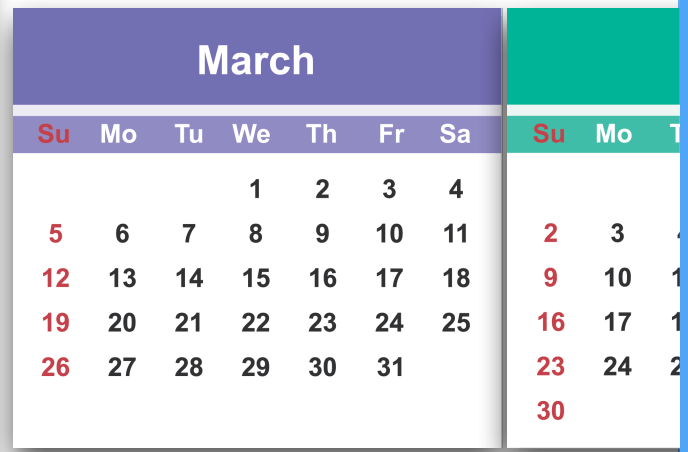
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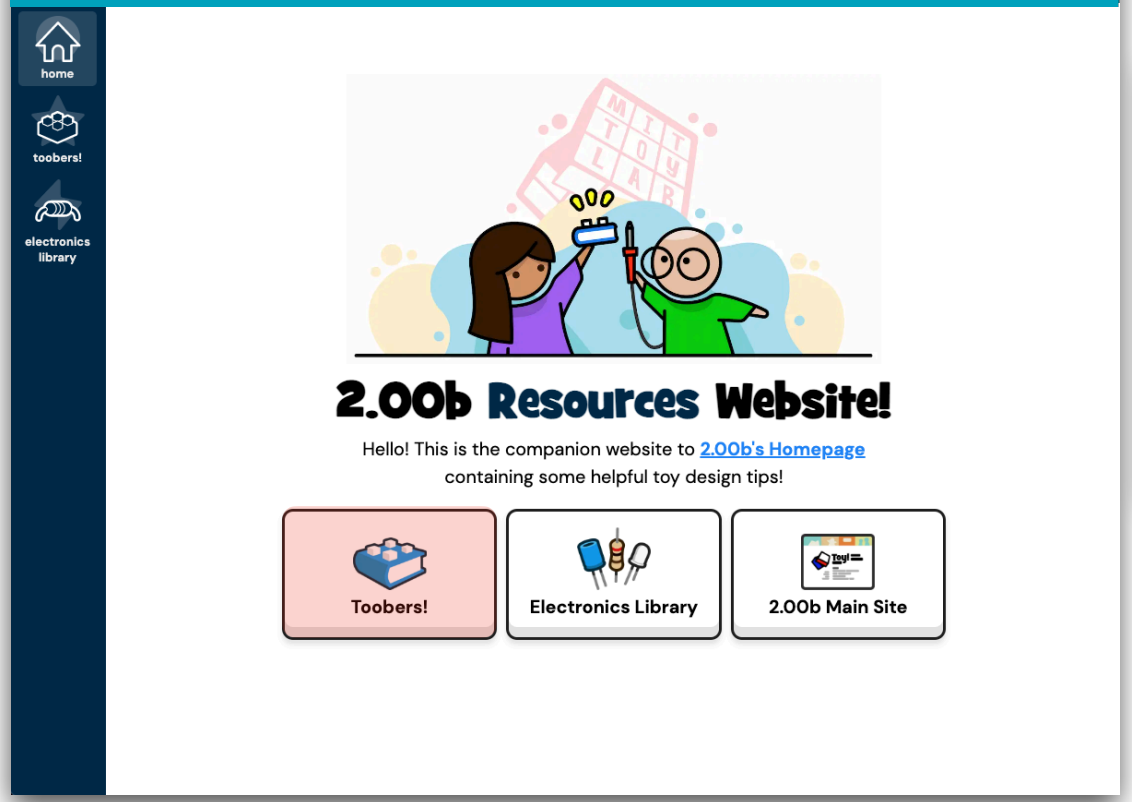
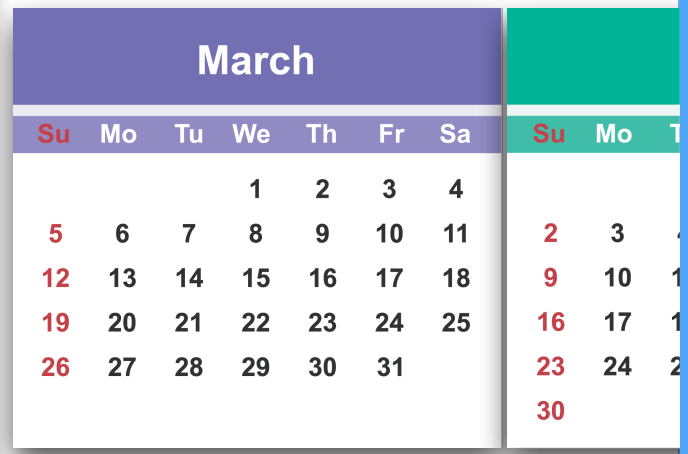
February


home
toobers!
electronics library
2.00b Resources Website!
Hello! This is the companion website to 2.00b's Homepage containing some helpful toy design tips!
Toobers!
Electronics Library
2.00b Main Site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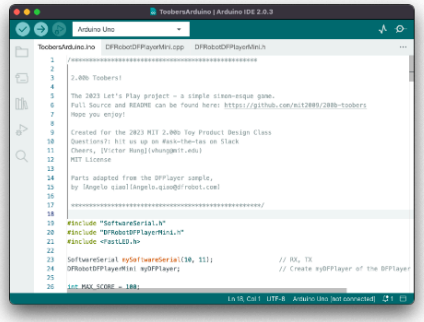
February

5. Breadboarding > Installing the IDE

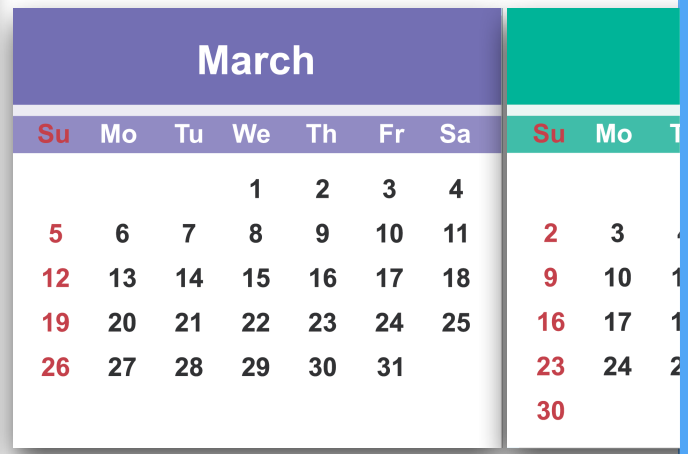
Installing the Arduino IDE

Set Up your Computer for Programming

We'll be using an Arduino "Integrated Development Environment" (IDE). An IDE is a program made for editing code files. Although code files are text files and could be edited in a text-editing program, an IDE usually includes many features that help make programming easier. The Arduino IDE not only lets us write and edit programs for the Arduino microcontrollers, it also helps us to upload the programs to the Arduino microcontrollers.



There are two versions of the Arduino IDE: a web-based Arduino Web Editor and a desktop version of the Arduino IDE for Windows or Mac OS. We strongly recommend that



February

Course Info
Syllabus
Course Staff
Teams
Toy Museum

designy

Accessibility

Fri, Feb 24: The theme
Please bring your sketch kit, name tag and design notebook.

Lecture 5: Getting shady, Toober breadboard toolkit
Lecture 4: Get the points, Toober electronics overview slides

Labs Week of Feb 20

Lab 2: **Toobers, get ready to play!** Ma~~Brea~~king bread(boards) together
Toobers electronics breadboarding

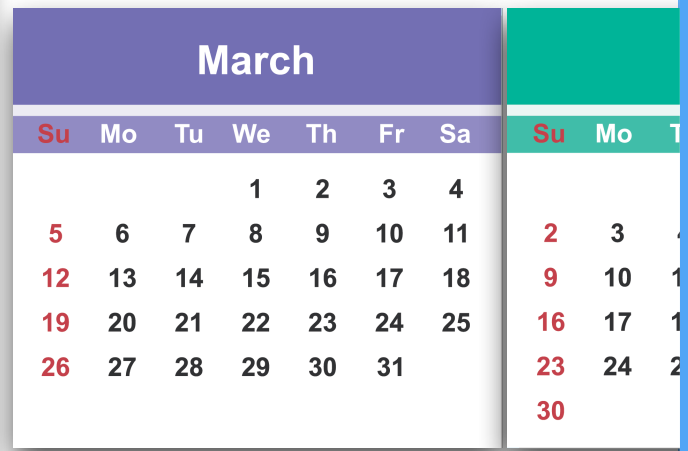
Please bring your laptop with the Arduino IDE installed (see the to-do section).

We will be taking your picture for your portfolio page in lab.

In lab: Toober breadboarding instructions

Things to-do

before lab 2	Please install and configure your Arduino IDE (click on "Toobers"). Ask for help on the #ask-the-TAs channel in Slack
before lab 2	Please check the Lab 2 makeup schedule for your room and time assignment, if you are doing a Lab 2 makeup.
later this week	Sign up and attend extra lab hours to finish your pull toy or toobers breadboarding. (Thursdays 9AM-12PM, 2-5PM, 7-10PM, and Fridays 9AM-12PM)



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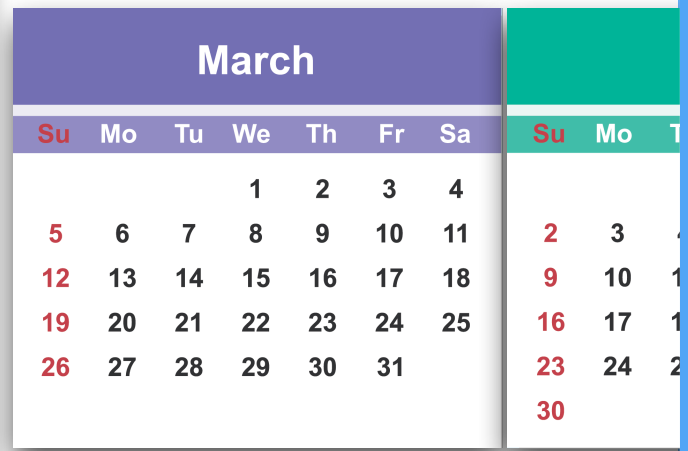

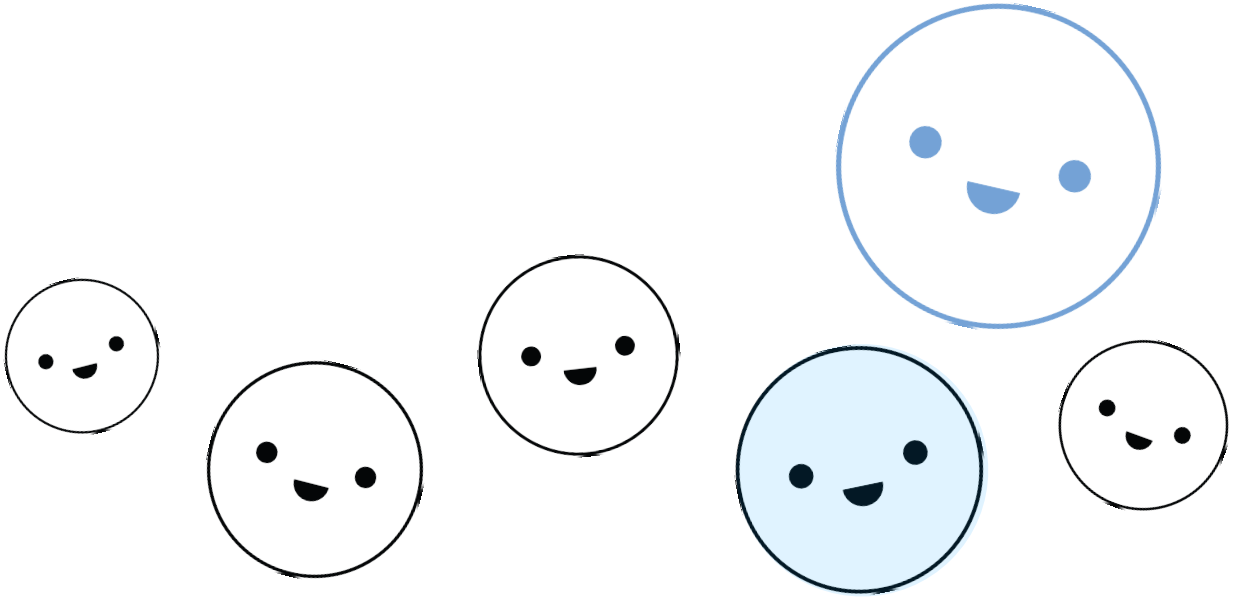


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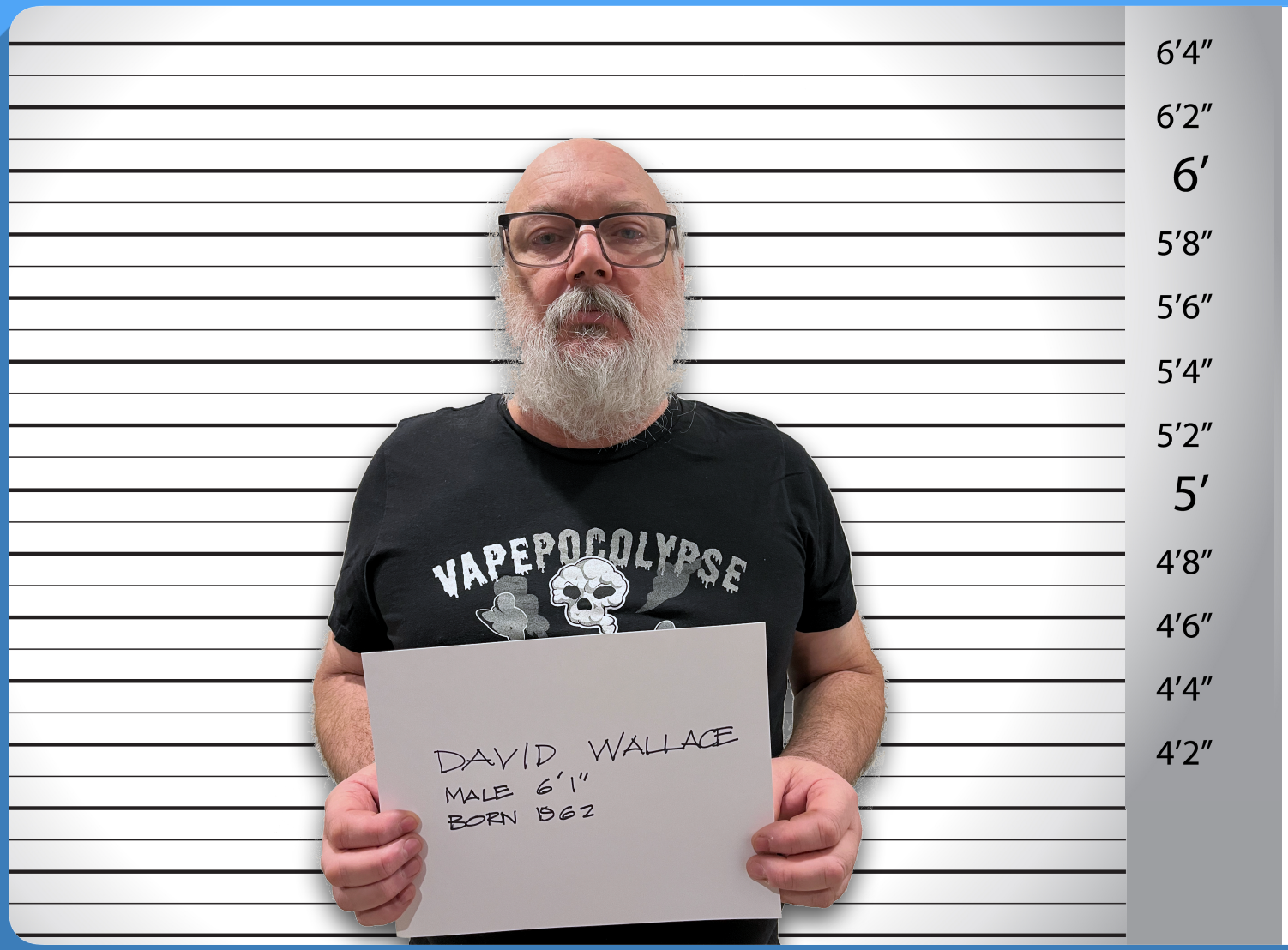

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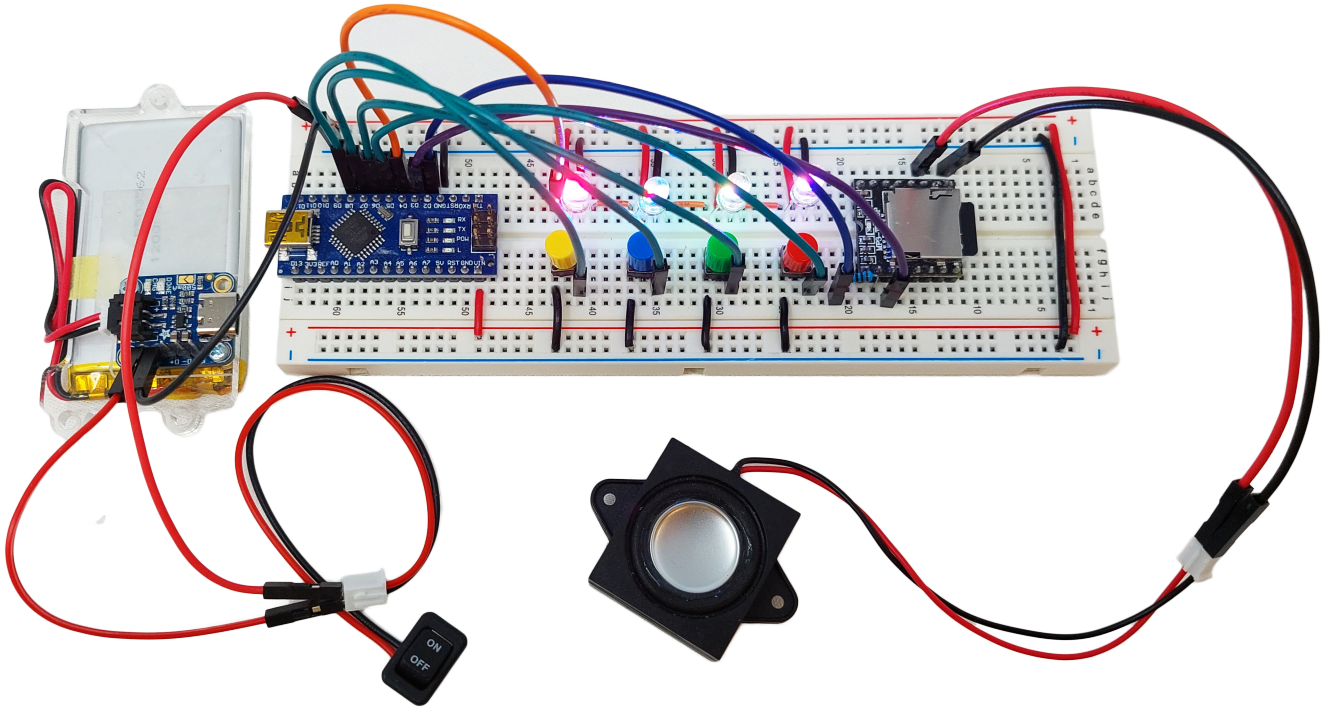
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toy designer

2.00b

TOOBERS COMPONENTS

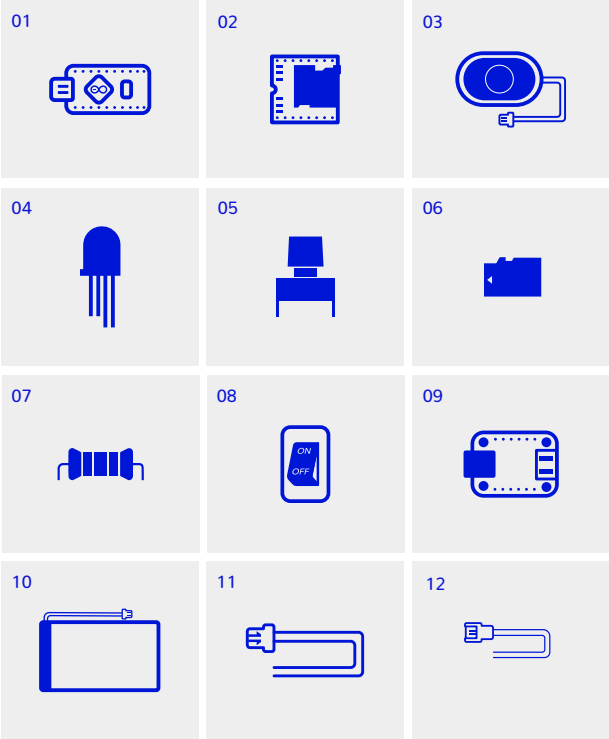
PRODUCT DESIGN

2.00b TOY PRODUCT DESIGN

TOOBERS COMPONENTS

Electronic Components

01. Arduino Nano Microcontroller	Qty.01	08. On/Off Switch	Qty 01
02. DFPlayer MP3	Qty.01	09. Li-ion Battery Charger	Qty 01
03. Speaker	Qty.01	10. Li-ion Battery	Qty 01
04. WS2821B LEDs	Qty.04	11. 2.54mm Power/Switch Cable	Qty 02
05. Tactile Buttons	Qty.04	12. 1.25mm Speaker Cable	Qty 01
06. SD MemoryCard	Qty.01		
07. 1k Ohm Resistor	Qty.01		



2.00b Toy Product Design | Checklist: 22 Items

Hardware and Tools

13. Breadboard	Qty.01	20. Battery Module Plate	Qty.01
14. Wire Cutter & Stripper	Qty.01	21. Multimeter	Qty.01
15. Arduino USB Cable	Qty.01	22. Tiny Screwdriver	Qty.01
16. Hookup Wire Roll	Qty.01		
17. M-M Jumper Wire Assortment	Qty.01		
18. M2 5mm Philips Head Screw	Qty.10		
19. M2 Threaded Insert	Qty .10		

2.00b Toy Product Design	Checklist: 22 Items

Electronic Components

01. Arduino Nano Microcontroller	Qty.01	08. On/Off Switch	Qty 01
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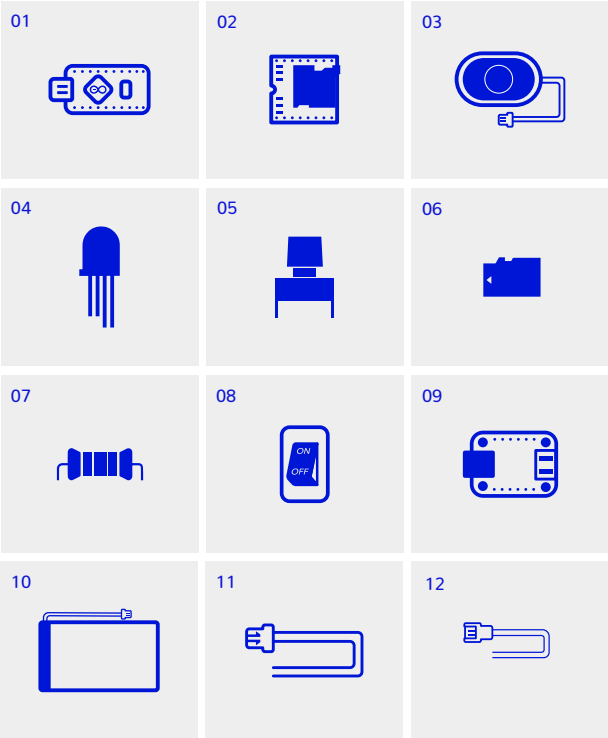

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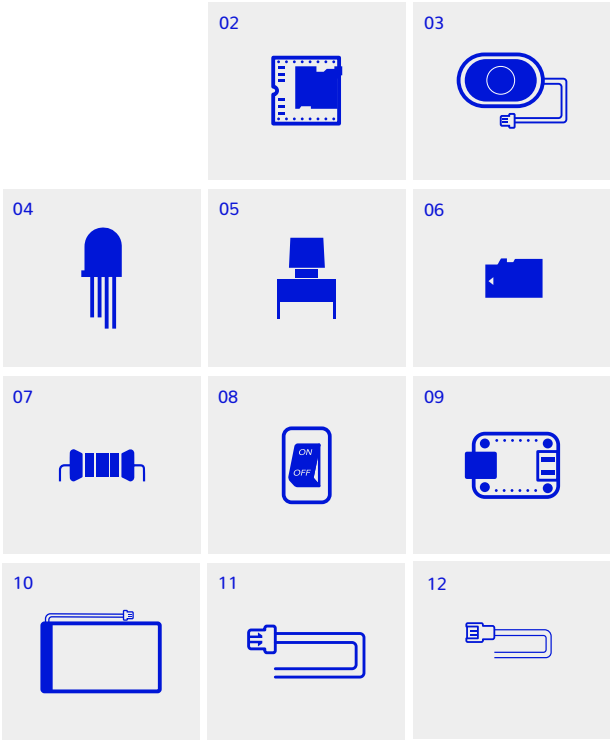

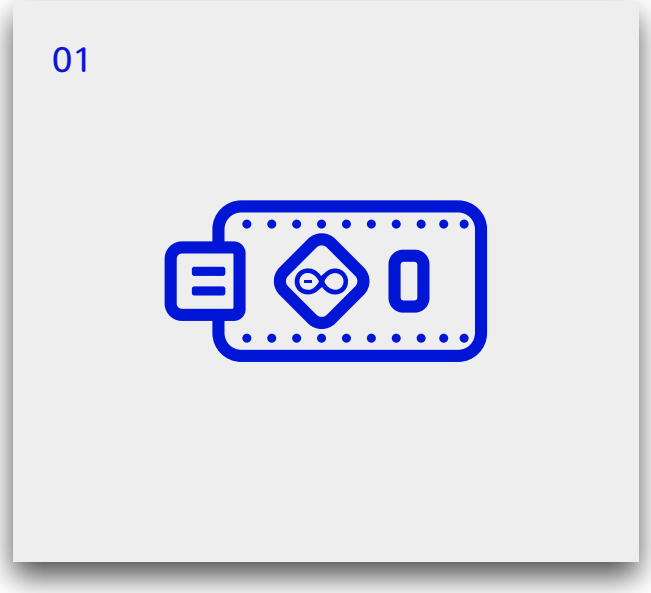

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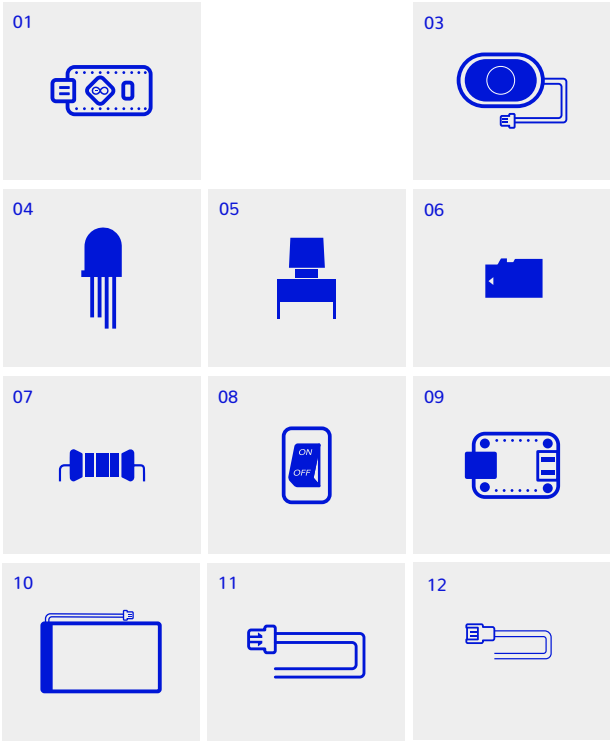

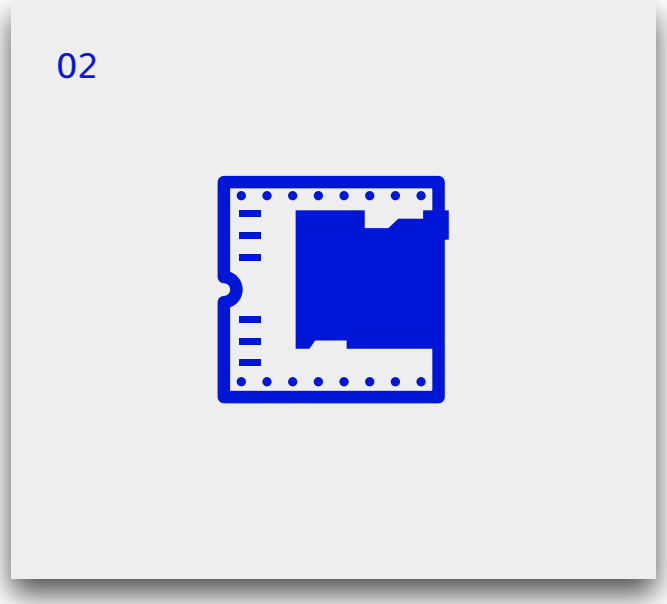

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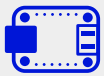

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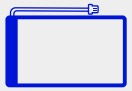

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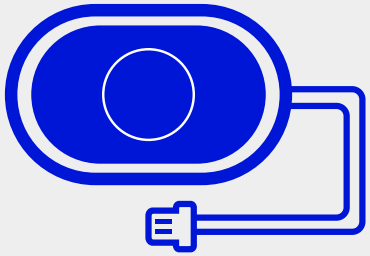

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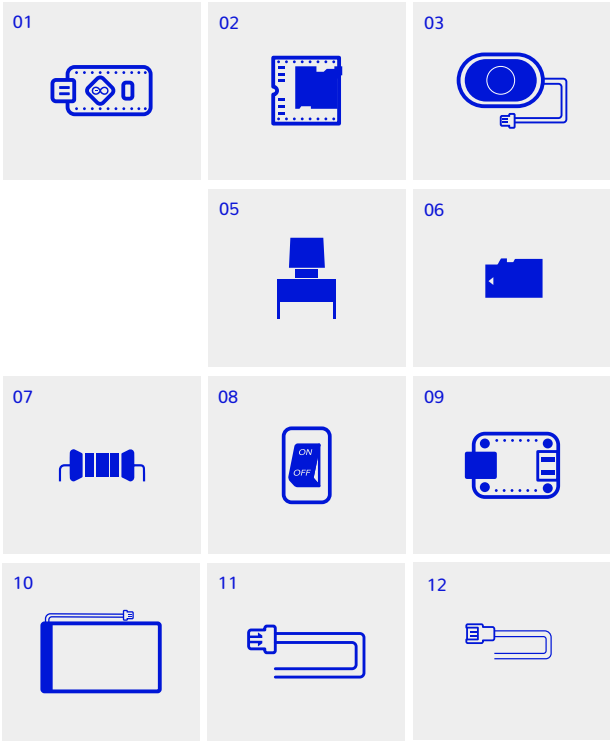

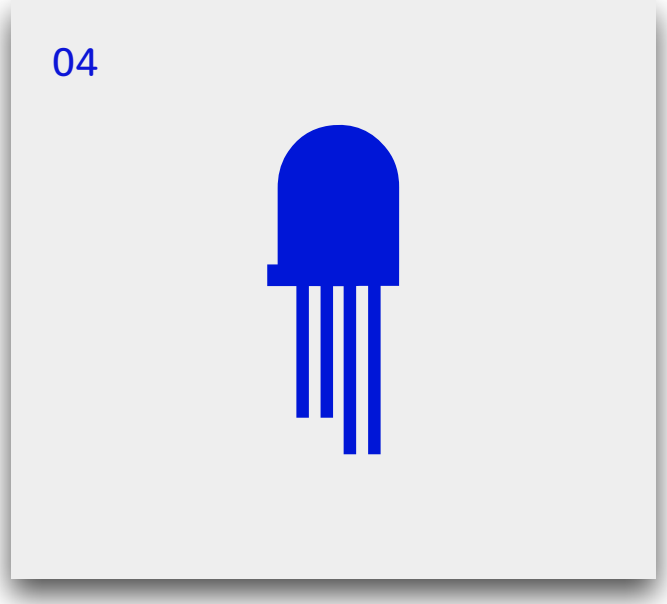

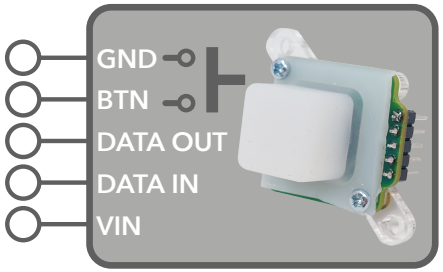

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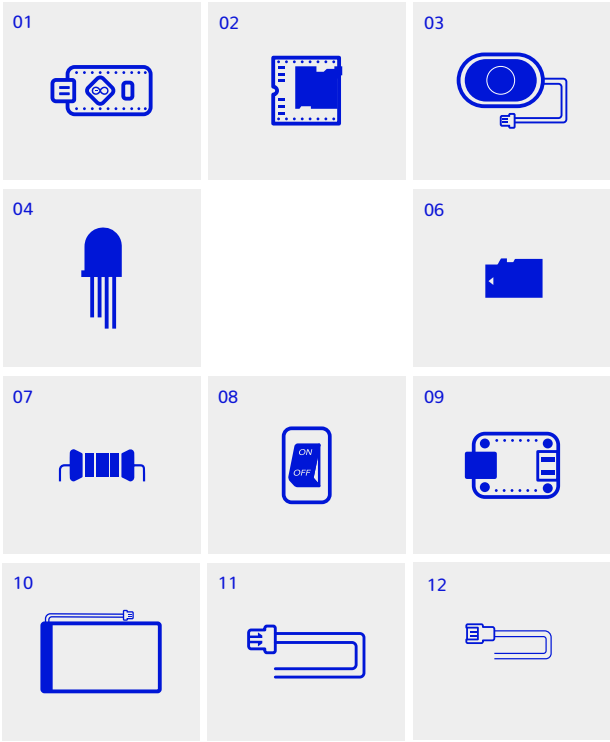

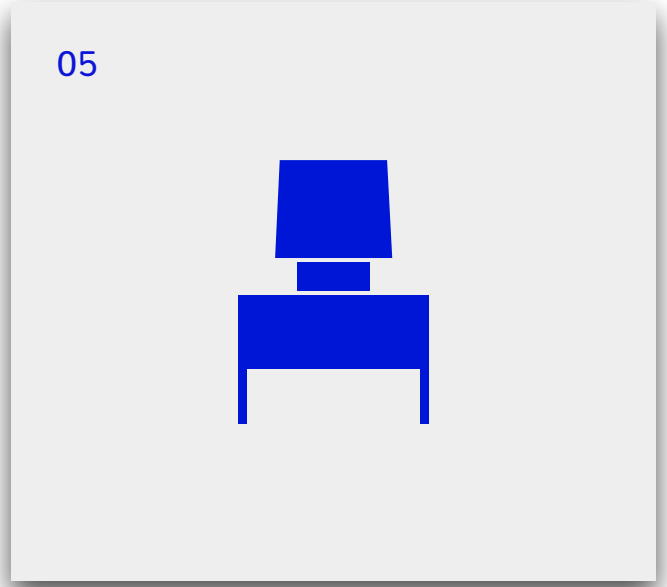

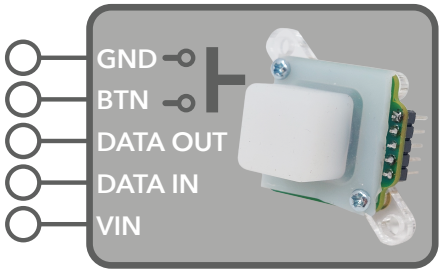

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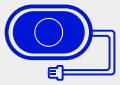

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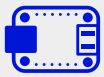

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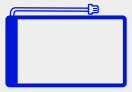

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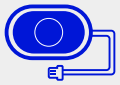

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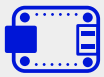

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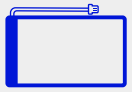

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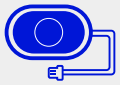

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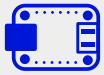

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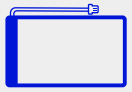

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04. WS2821B LEDs	Qty.04	11. 2.54mm Power/Switch Cable	Qty 02
05. Tactile Buttons	Qty.04	12. 1.25mm Speaker Cable	Qty 01
06. SD MemoryCard	Qty.01		
07. 1k Ohm Resistor	Qty.01		

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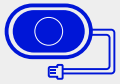

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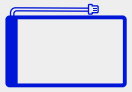

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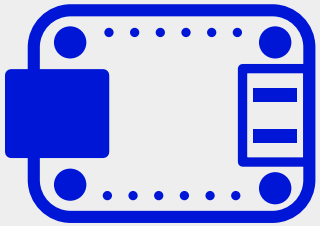

2.00b Toy Product Design	Checklist: 22 Items

Electronic Components

01. Arduino Nano Microcontroller	Qty.01	08. On/Off Switch	Qty 01
02. DFPlayer MP3	Qty.01	09. Li-ion Battery Charger	Qty 01
03. Speaker	Qty.01	10. Li-ion Battery	Qty 01
04. WS2821B LEDs	Qty.04	11. 2.54mm Power/Switch Cable	Qty 02
05. Tactile Buttons	Qty.04	12. 1.25mm Speaker Cable	Qty 01
06. SD MemoryCard	Qty.01		
07. 1k Ohm Resistor	Qty.01		

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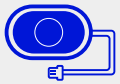

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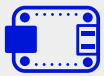

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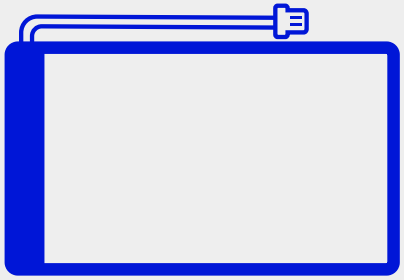

2.00b Toy Product Design	Checklist: 22 Items

Electronic Components

01. Arduino Nano Microcontroller	Qty.01	08. On/Off Switch	Qty 01
02. DFPlayer MP3	Qty.01	09. Li-ion Battery Charger	Qty 01
03. Speaker	Qty.01	10. Li-ion Battery	Qty 01
04. WS2821B LEDs	Qty.04	11. 2.54mm Power/Switch Cable	Qty 02
05. Tactile Buttons	Qty.04	12. 1.25mm Speaker Cable	Qty 01
06. SD MemoryCard	Qty.01		
07. 1k Ohm Resistor	Qty.01		

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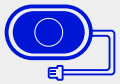

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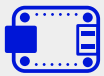

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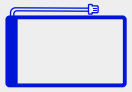

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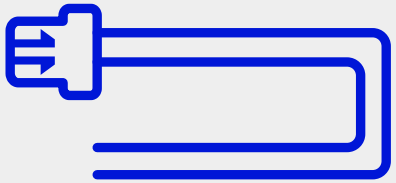

2.00b Toy Product Design	Checklist: 22 Items

Electronic Components

01. Arduino Nano Microcontroller	Qty.01	08. On/Off Switch	Qty 01
02. DFPlayer MP3	Qty.01	09. Li-ion Battery Charger	Qty 01
03. Speaker	Qty.01	10. Li-ion Battery	Qty 01
04. WS2821B LEDs	Qty.04	11. 2.54mm Power/Switch Cable	Qty 02
05. Tactile Buttons	Qty.04	12. 1.25mm Speaker Cable	Qty 01
06. SD MemoryCard	Qty.01		
07. 1k Ohm Resistor	Qty.01		

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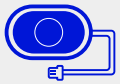

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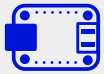

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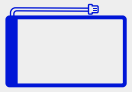

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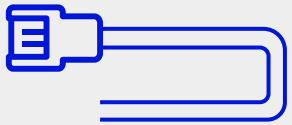

Qty 01
Qty 01
Qty 01
Qty 02
Qty 01

2.00b Toy Product Design | Checklist: 22 Items

Hardware and Tools

13. Breadboard	Qty.01	20. Battery Module Plate	Qty.01
14. Wire Cutter & Stripper	Qty.01	21. Multimeter	Qty.01
15. Arduino USB Cable	Qty.01	22. Tiny Screwdriver	Qty.01
16. Hookup Wire Roll	Qty.01		
17. M-M Jumper Wire Assortment	Qty.01		
18. M2 5mm Philips Head Screw	Qty.10		
19. M2 Threaded Insert	Qty.10		

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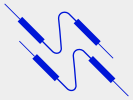

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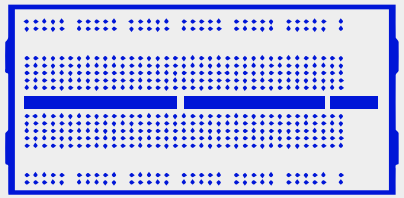

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2.00b Toy Product Design | Checklist: 22 Items

Hardware and Tools

13. Breadboard	Qty.01	20. Battery Module Plate	Qty.01
14. Wire Cutter & Stripper	Qty.01	21. Multimeter	Qty.01
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17. M-M Jumper Wire Assortment	Qty.01		
18. M2 5mm Philips Head Screw	Qty.10		
19. M2 Threaded Insert	Qty.10		

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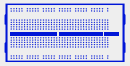

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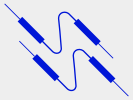

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2.00b Toy Product Design | Checklist: 22 Items

Hardware and Tools

13. Breadboard	Qty.01	20. Battery Module Plate	Qty.01
14. Wire Cutter & Stripper	Qty.01	21. Multimeter	Qty.01
15. Arduino USB Cable	Qty.01	22. Tiny Screwdriver	Qty.01
16. Hookup Wire Roll	Qty.01		
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18. M2 5mm Philips Head Screw	Qty.10		
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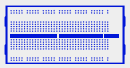

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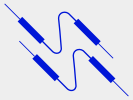

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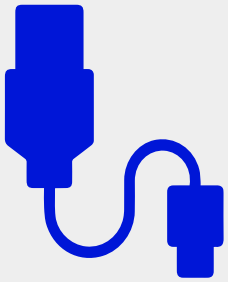

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2.00b Toy Product Design | Checklist: 22 Items

Hardware and Tools

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14. Wire Cutter & Stripper	Qty.01	21. Multimeter	Qty.01
15. Arduino USB Cable	Qty.01	22. Tiny Screwdriver	Qty.01
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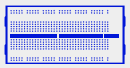

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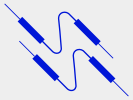

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2.00b Toy Product Design | Checklist: 22 Items

Hardware and Tools

13. Breadboard	Qty.01	20. Battery Module Plate	Qty.01
14. Wire Cutter & Stripper	Qty.01	21. Multimeter	Qty.01
15. Arduino USB Cable	Qty.01	22. Tiny Screwdriver	Qty.01
16. Hookup Wire Roll	Qty.01		
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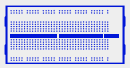

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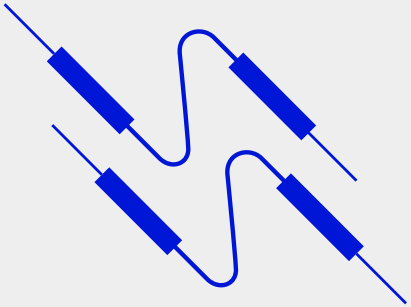

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2.00b Toy Product Design | Checklist: 22 Items

Hardware and Tools

13. Breadboard	Qty.01	20. Battery Module Plate	Qty.01
14. Wire Cutter & Stripper	Qty.01	21. Multimeter	Qty.01
15. Arduino USB Cable	Qty.01	22. Tiny Screwdriver	Qty.01
16. Hookup Wire Roll	Qty.01		
17. M-M Jumper Wire Assortment	Qty.01		
18. M2 5mm Philips Head Screw	Qty.10		
19. M2 Threaded Insert	Qty.10		

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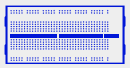

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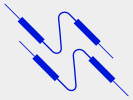

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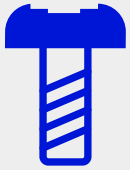

Qty 01
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Qty 01

2.00b Toy Product Design | Checklist: 22 Items

Hardware and Tools

13. Breadboard	Qty.01
14. Wire Cutter & Stripper	Qty.01
15. Arduino USB Cable	Qty.01
16. Hookup Wire Roll	Qty.01
17. M-M Jumper Wire Assortment	Qty.01
18. M2 5mm Philips Head Screw	Qty.10
19. M2 Threaded Insert	Qty.10
20. Battery Module Plate	Qty.01
21. Multimeter	Qty.01
22. Tiny Screwdriver	Qty.01

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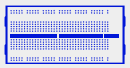

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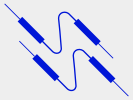

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Qty 01
Qty 01
Qty 01
Qty 02
Qty 01

2.00b Toy Product Design | Checklist: 22 Items

Hardware and Tools

13. Breadboard	Qty.01	20. Battery Module Plate	Qty.01
14. Wire Cutter & Stripper	Qty.01	21. Multimeter	Qty.01
15. Arduino USB Cable	Qty.01	22. Tiny Screwdriver	Qty.01
16. Hookup Wire Roll	Qty.01		
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18. M2 5mm Philips Head Screw	Qty.10		
19. M2 Threaded Insert	Qty.10		

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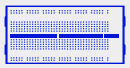

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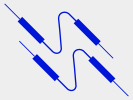

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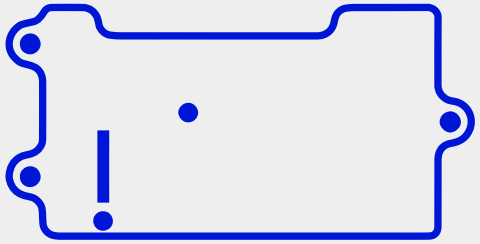

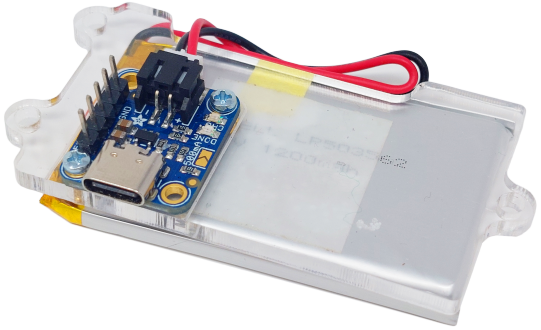

Qty 01
Qty 01
Qty 01
Qty 02
Qty 01

2.00b Toy Product Design | Checklist: 22 Items

Hardware and Tools

13. Breadboard	Qty.01	20. Battery Module Plate	Qty.01
14. Wire Cutter & Stripper	Qty.01	21. Multimeter	Qty.01
15. Arduino USB Cable	Qty.01	22. Tiny Screwdriver	Qty.01
16. Hookup Wire Roll	Qty.01		
17. M-M Jumper Wire Assortment	Qty.01		
18. M2 5mm Philips Head Screw	Qty.10		
19. M2 Threaded Insert	Qty.10		

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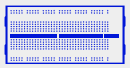

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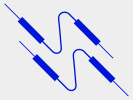

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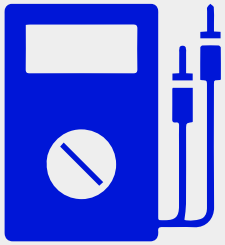

Qty 01
Qty 01
Qty 01
Qty 02
Qty 01

2.00b Toy Product Design | Checklist: 22 Items

Hardware and Tools

13. Breadboard	Qty.01	20. Battery Module Plate	Qty.01
14. Wire Cutter & Stripper	Qty.01	21. Multimeter	Qty.01
15. Arduino USB Cable	Qty.01	22. Tiny Screwdriver	Qty.01
16. Hookup Wire Roll	Qty.01		
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18. M2 5mm Philips Head Screw	Qty.10		
19. M2 Threaded Insert	Qty.10		

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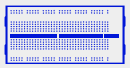

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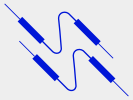

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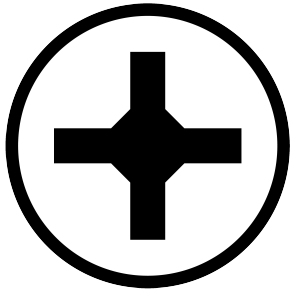
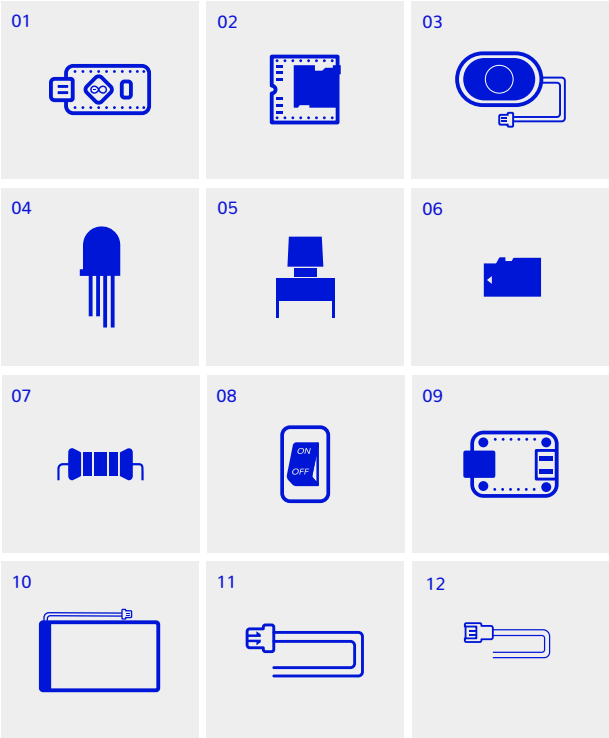


2.00b TOY PRODUCT DESIGN

TOOBERS COMPONENTS

Electronic Components

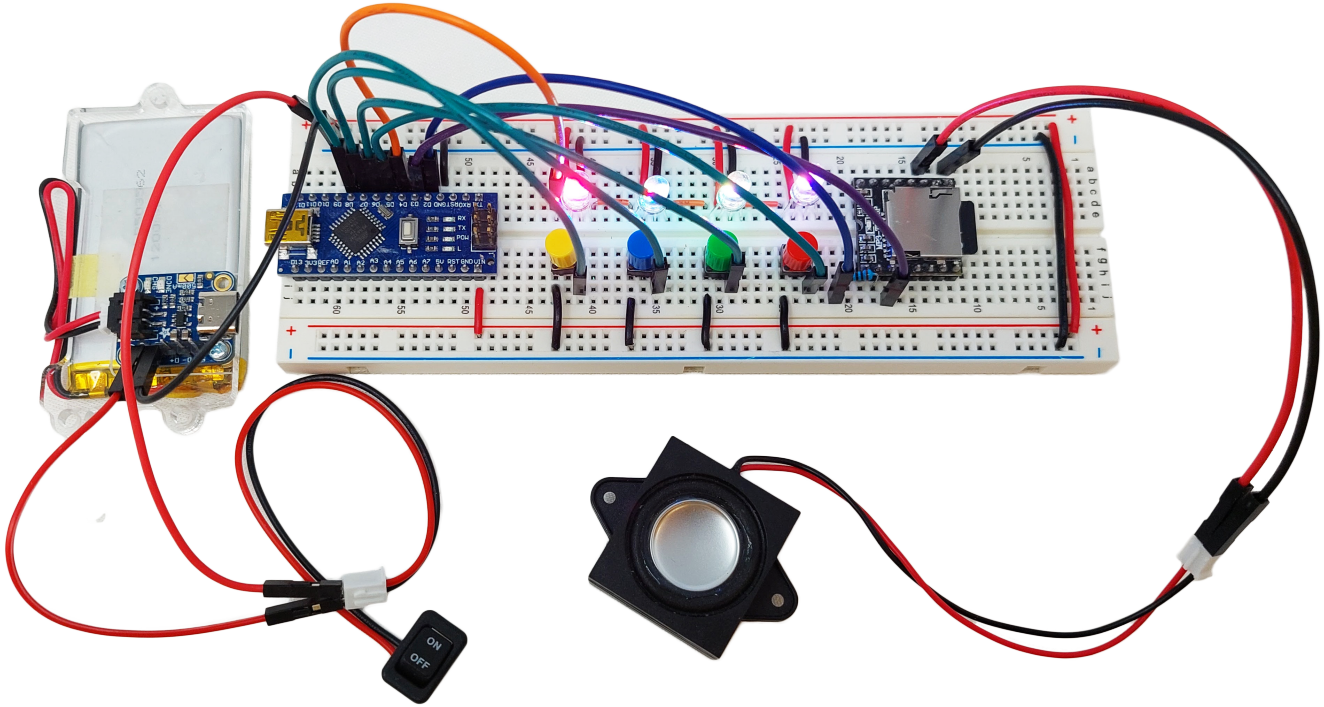
01. Arduino Nano Microcontroller	Qty.01	08. On/Off Switch	Qty 01
02. DFPlayer MP3	Qty.01	09. Li-ion Battery Charger	Qty 01
03. Speaker	Qty.01	10. Li-ion Battery	Qty 01
04. WS2821B LEDs	Qty.04	11. 2.54mm Power/Switch Cable	Qty 02
05. Tactile Buttons	Qty.04	12. 1.25mm Speaker Cable	Qty 01
06. SD MemoryCard	Qty.01		
07. 1k Ohm Resistor	Qty.01		

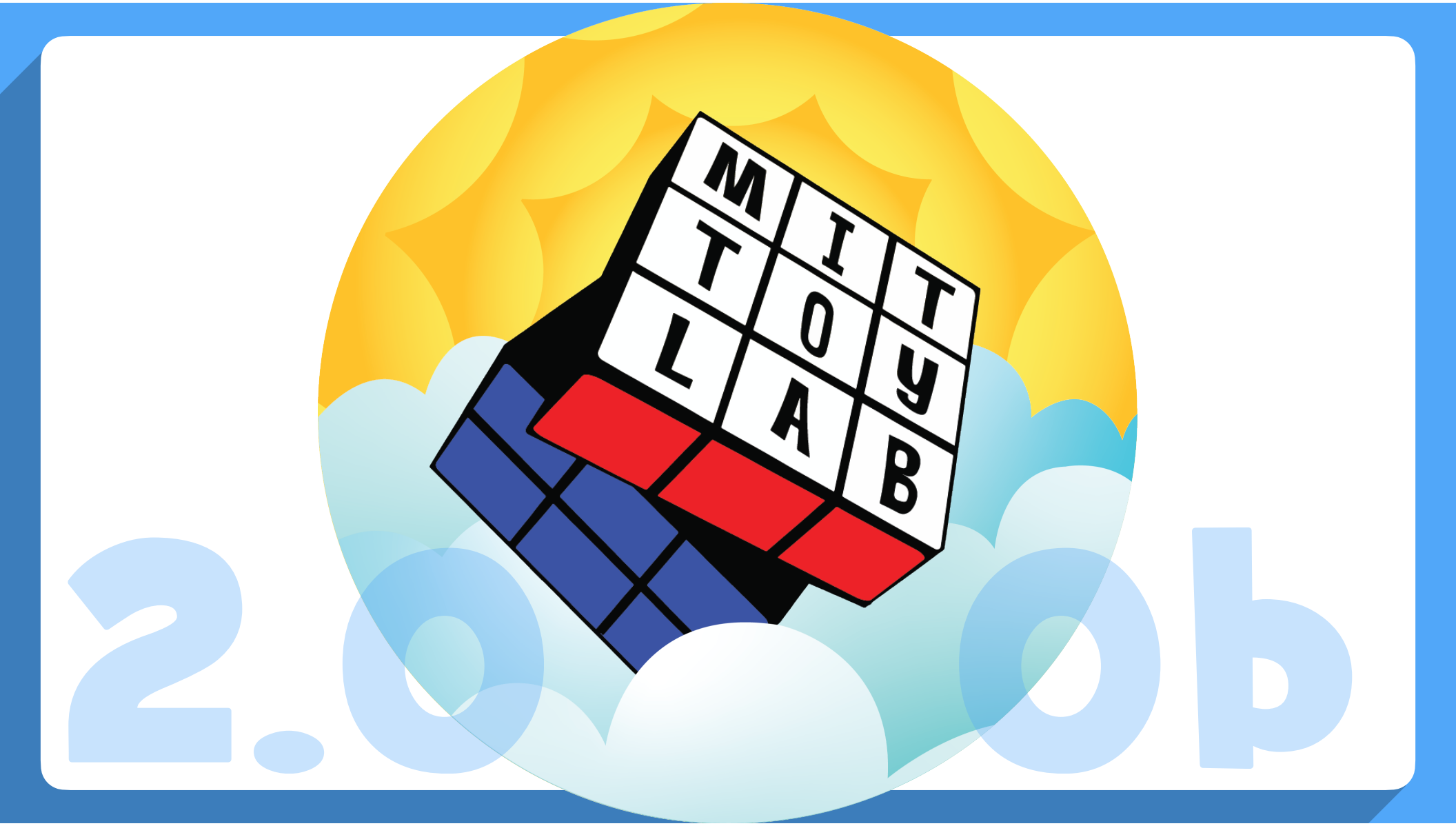


2.00b Toy Product Design | Checklist: 22 Items

Hardware and Tools

13. Breadboard	Qty.01	20. Battery Module Plate	Qty.01
14. Wire Cutter & Stripper	Qty.01	21. Multimeter	Qty.01
15. Arduino USB Cable	Qty.01	22. Tiny Screwdriver	Qty.01
16. Hookup Wire Roll	Qty.01		
17. M-M Jumper Wire Assortment	Qty.01		
18. M2 5mm Philips Head Screw	Qty.10		
19. M2 Threaded Insert	Qty.10		


ON
OFF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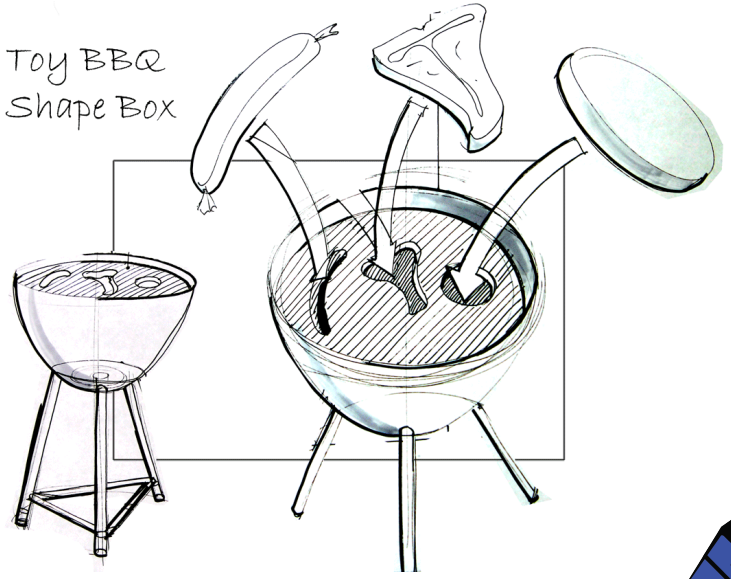
2.00b

What's the process?

Basic Skills (simple shapes)

3D Rules

Practice

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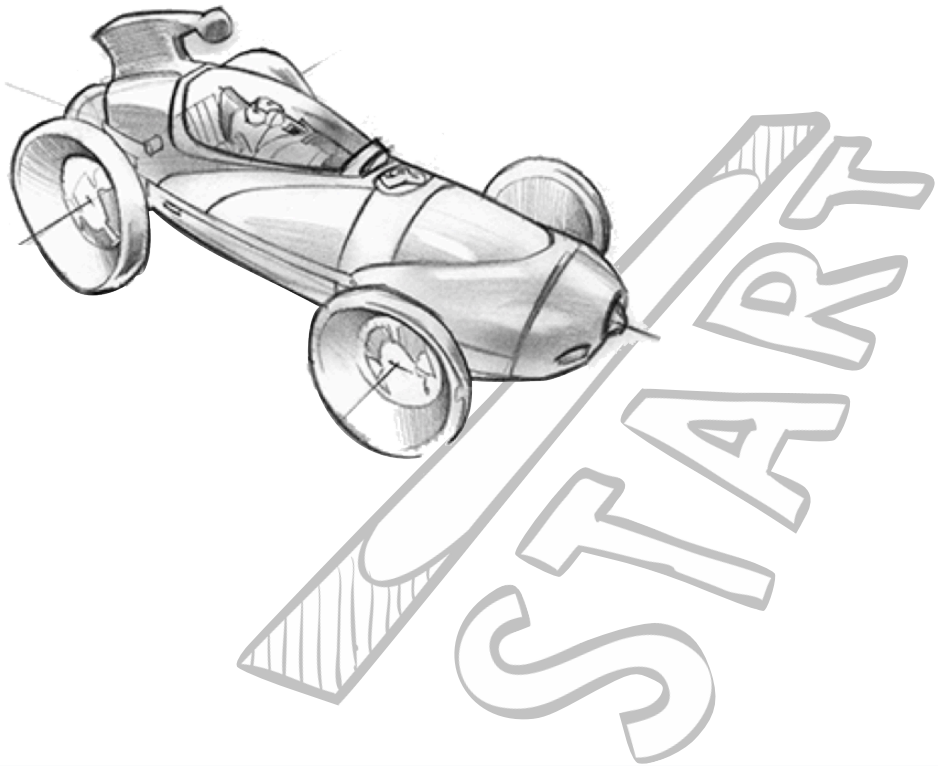
START


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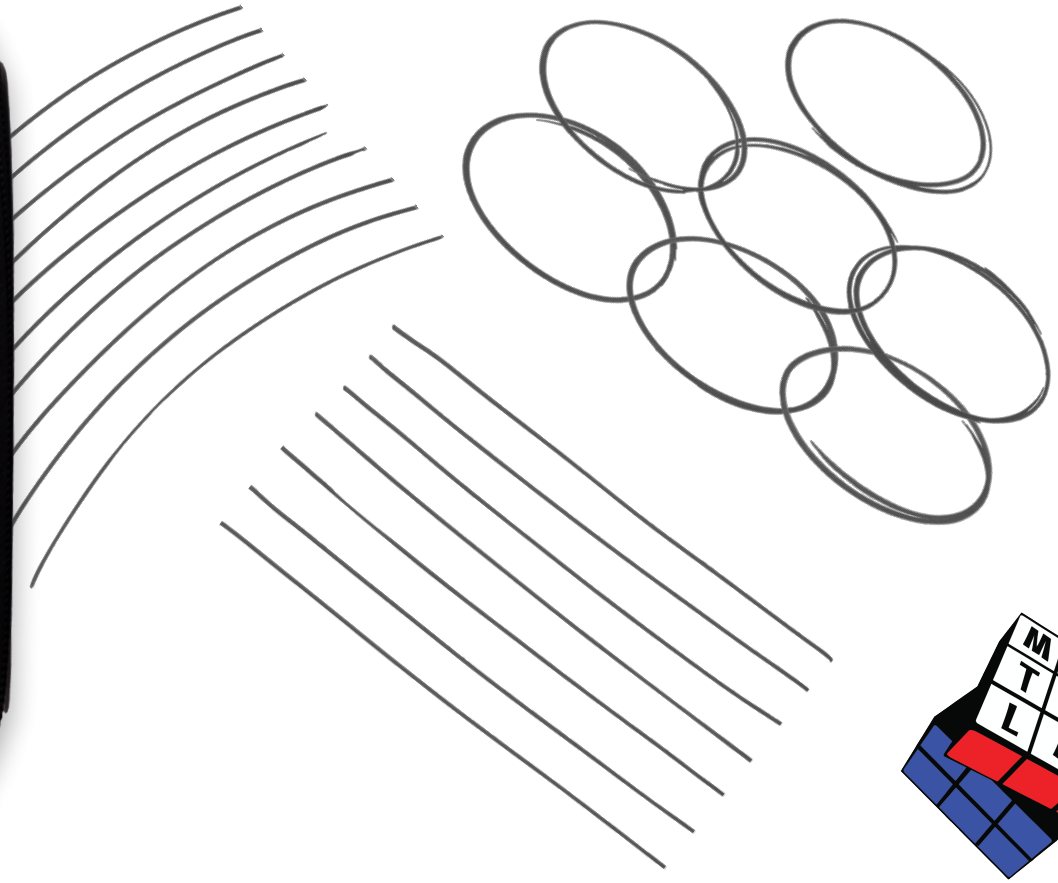

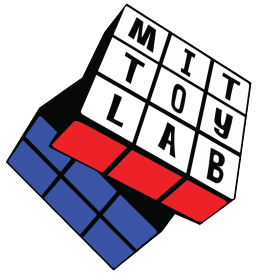
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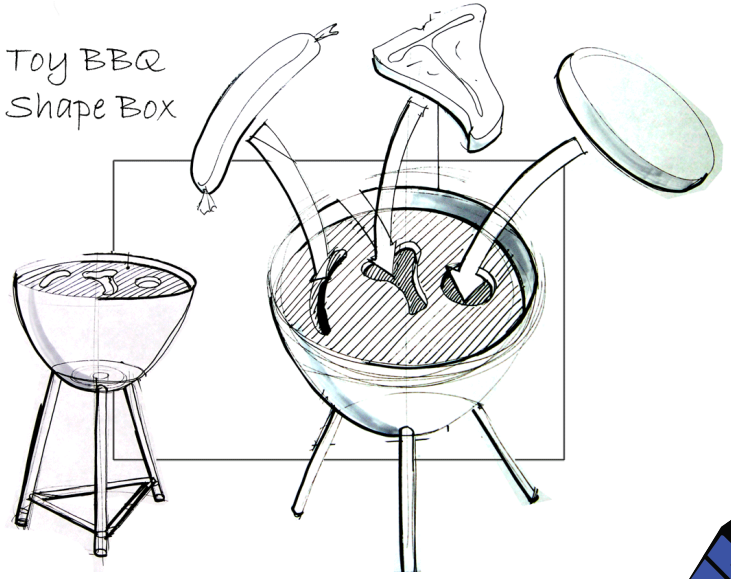
What's the process?

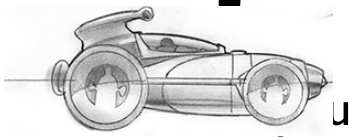
Basic Skills (simple shapes)

3D Rules

Practice

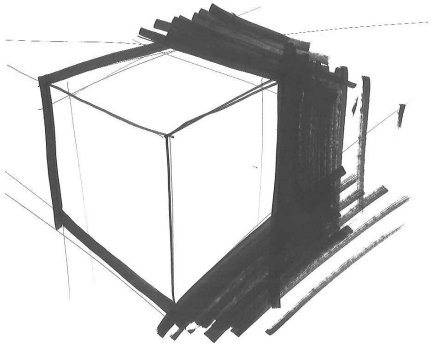


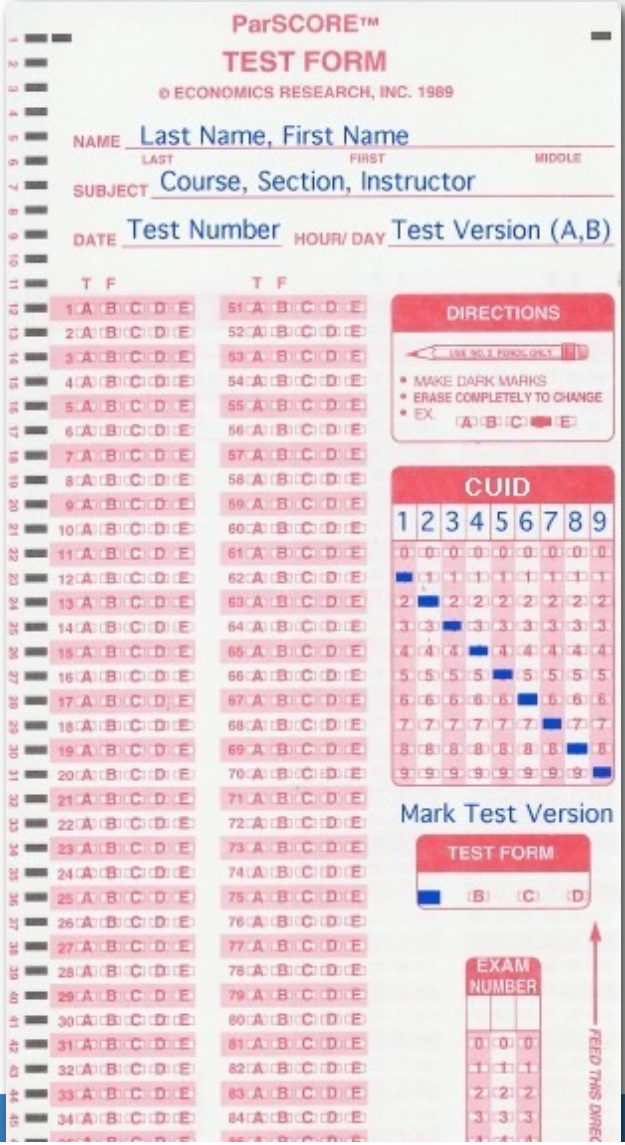
A quiz!



ur name?

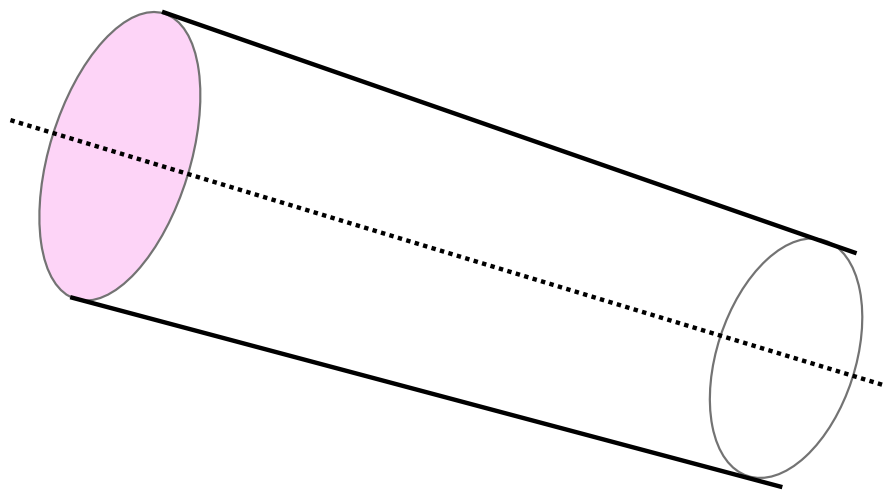
2. please draw a 2-point perspective cube, using your markers!



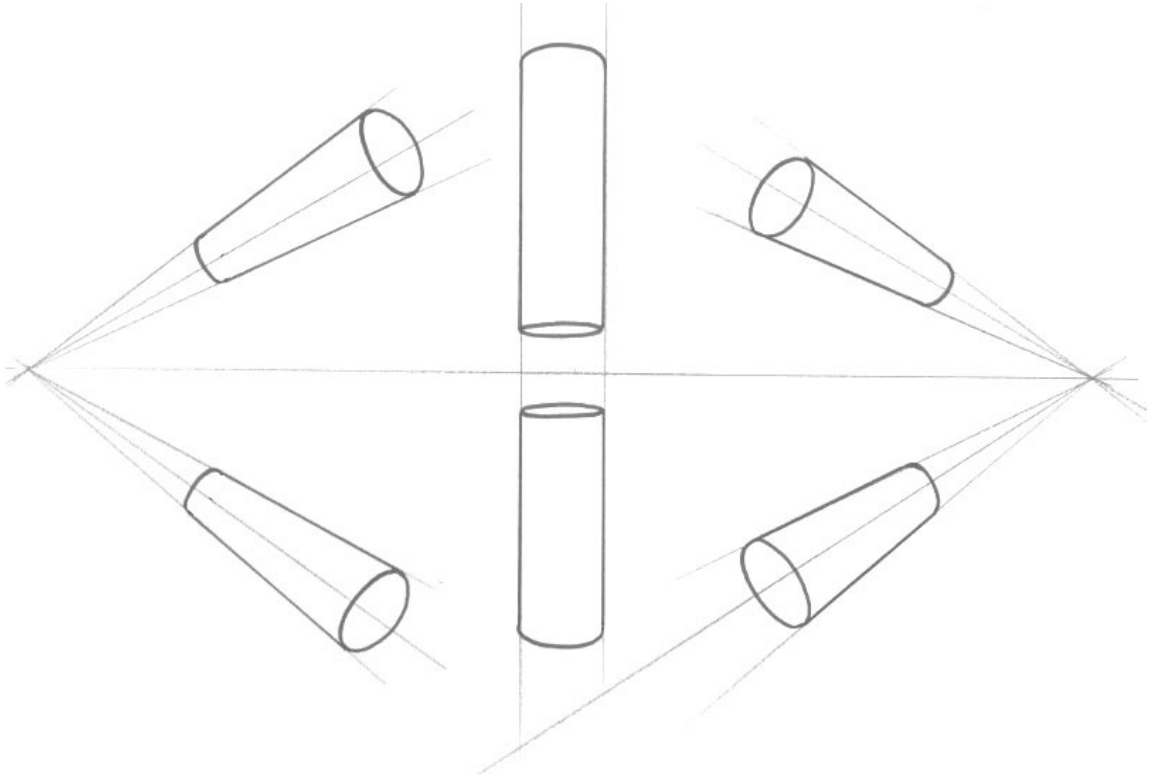


The cylinder

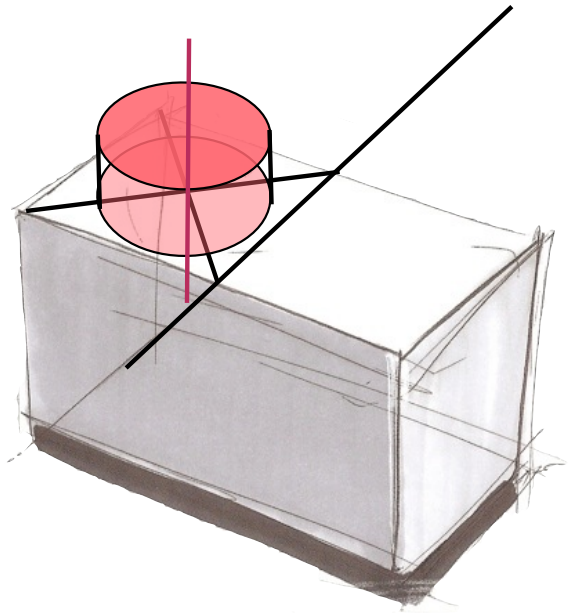
ellipse minor axis
inline with cylinder
center axis



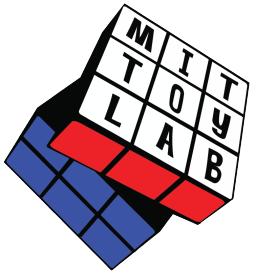
Cylinders in space!



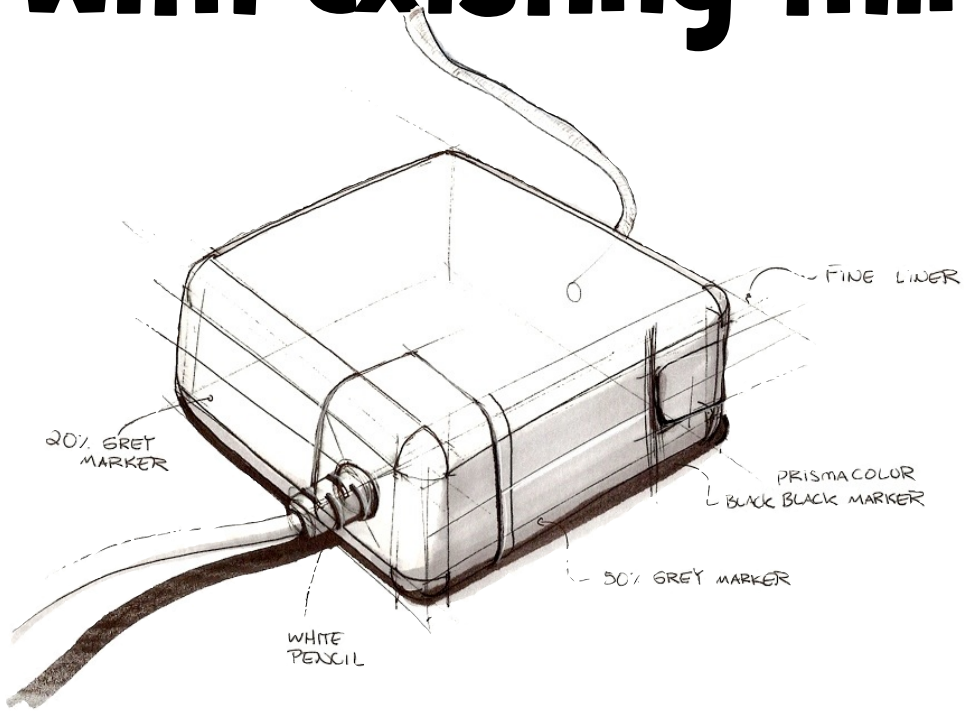
Cylinder on a block



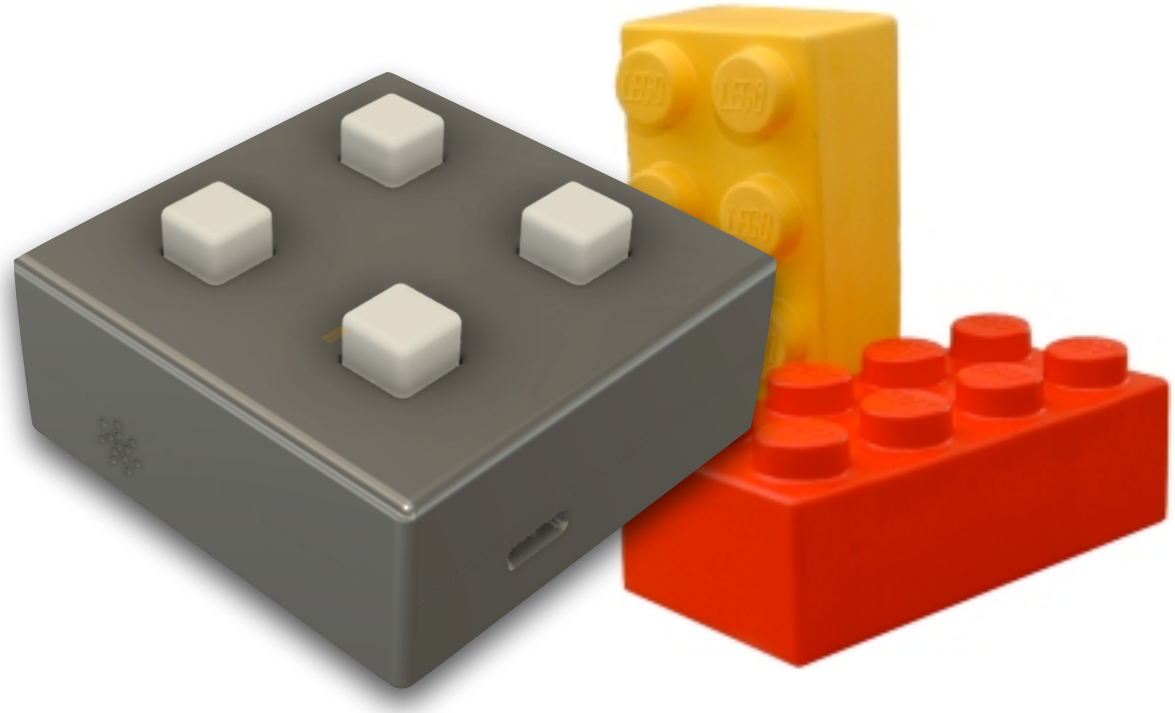
Products are basic shapes!



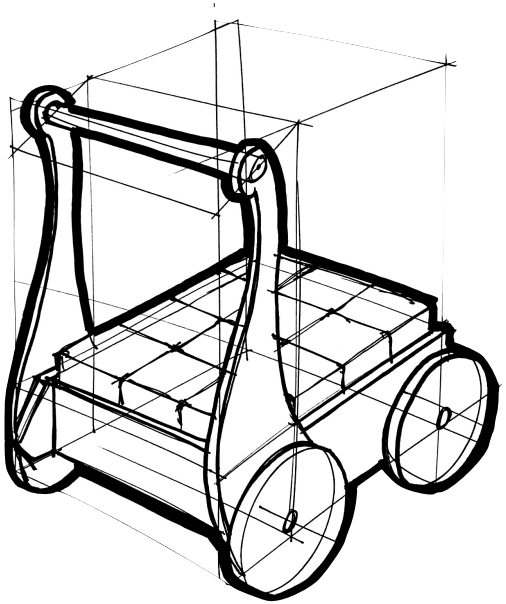
Start with existing things



Let's do that!

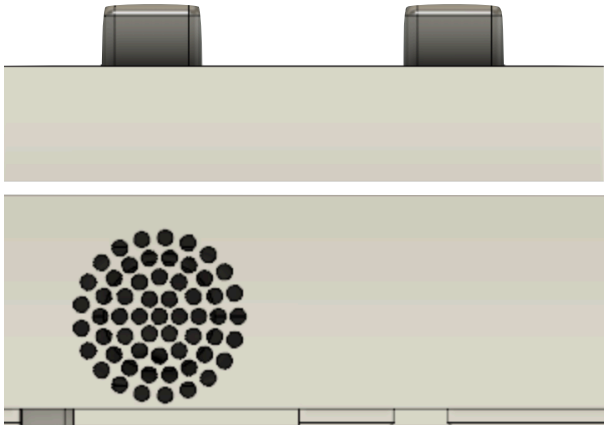


Let's do it! Again!



and again. From your mind!


5

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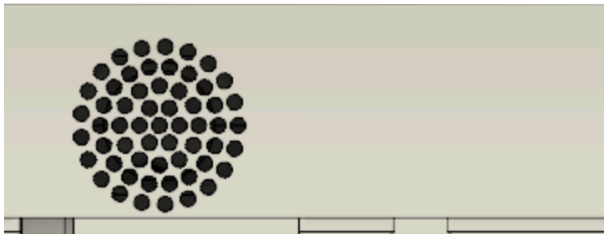

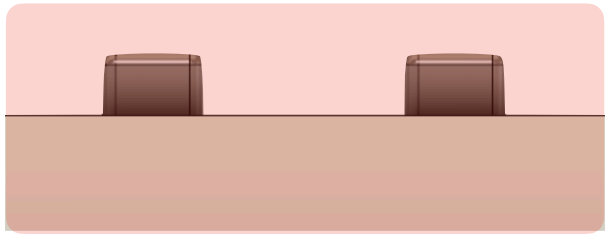


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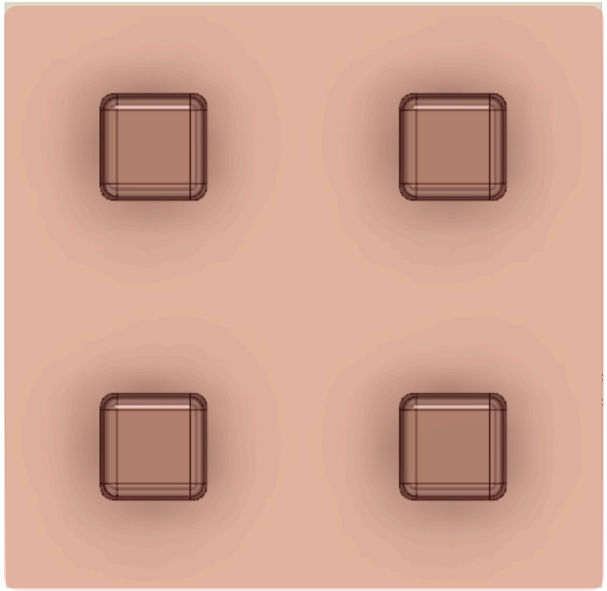

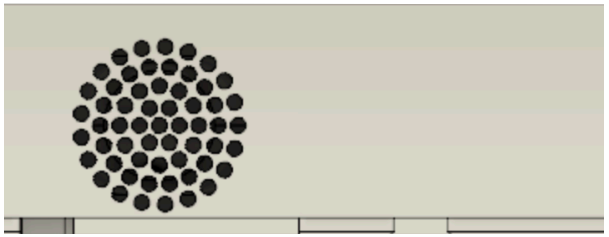

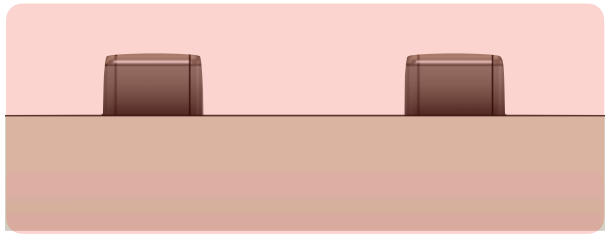


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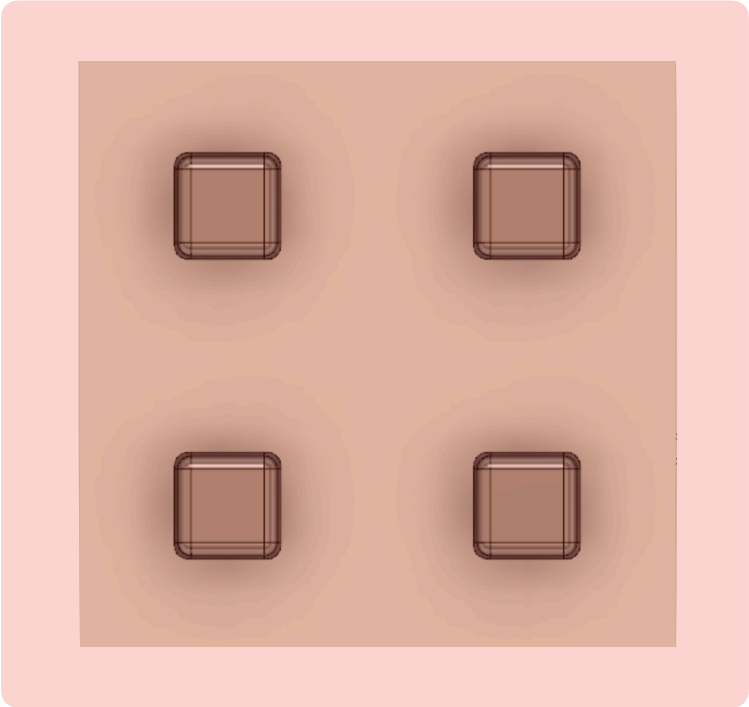

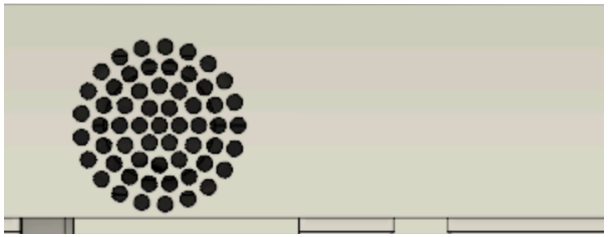

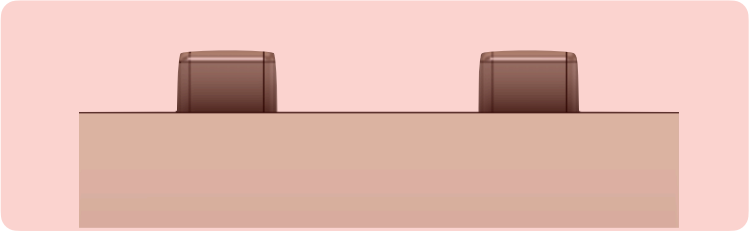


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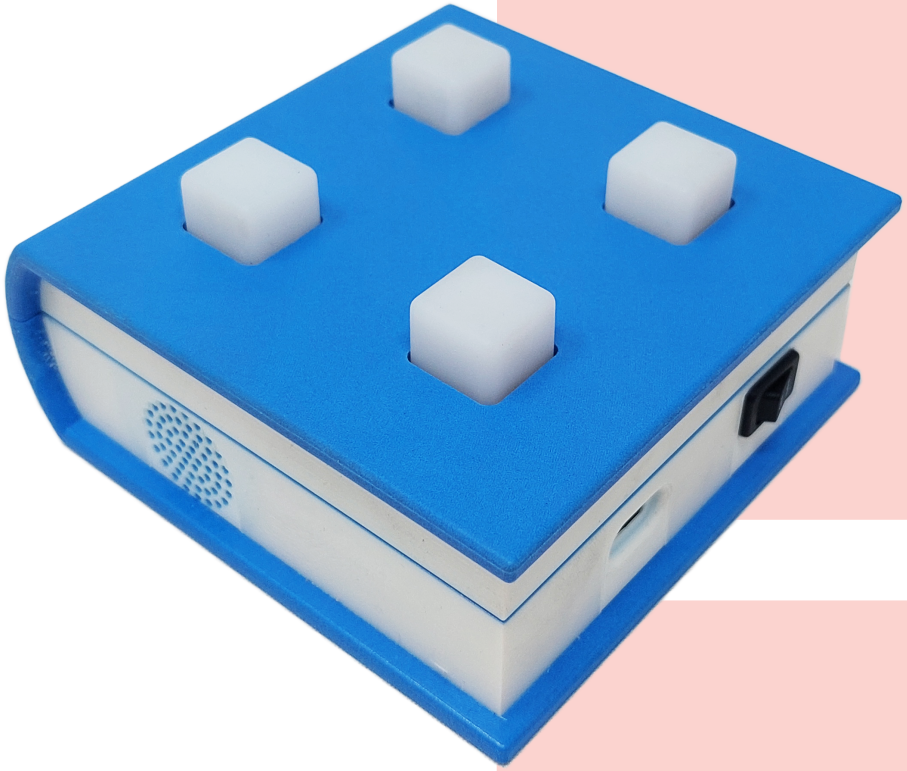


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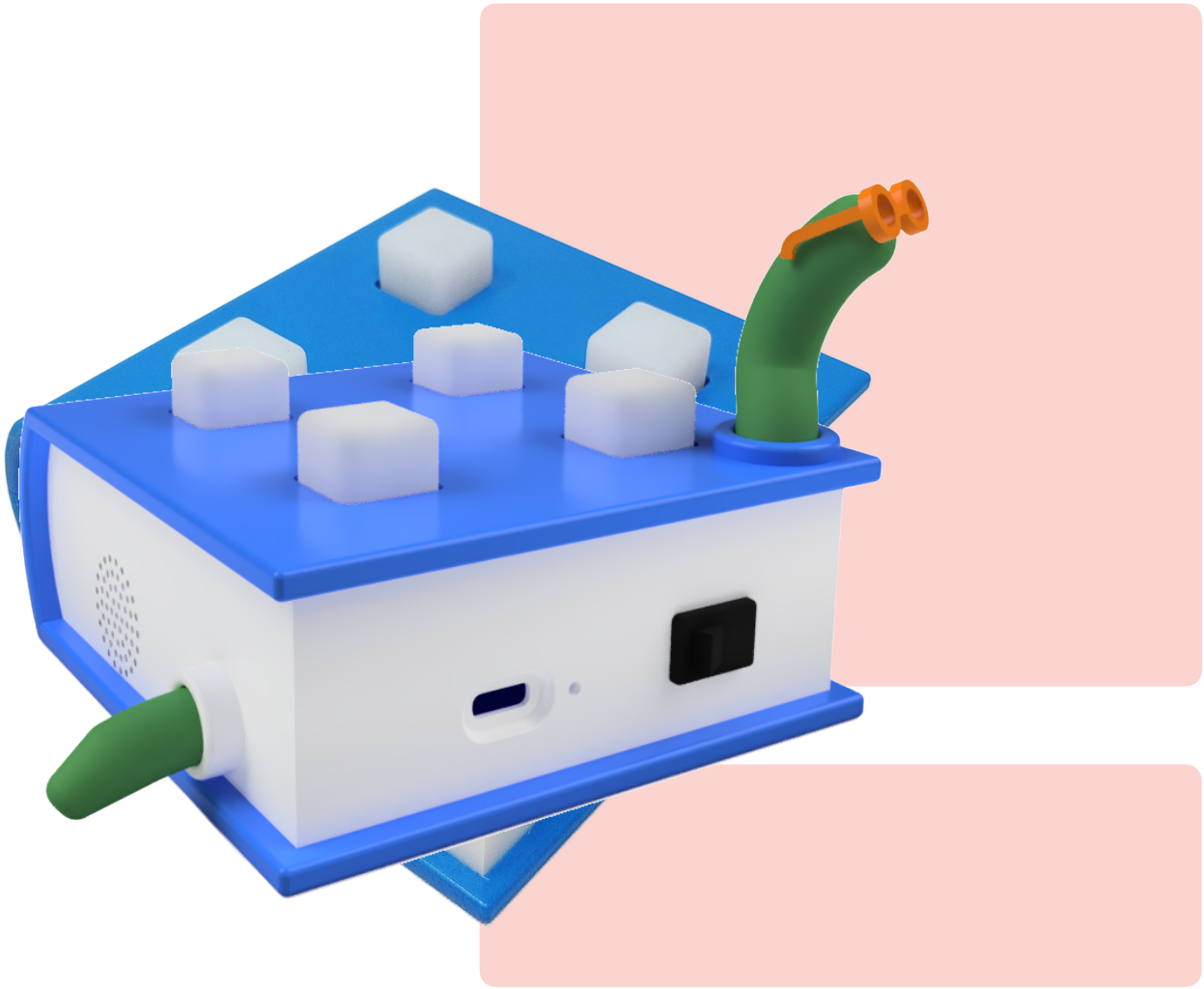


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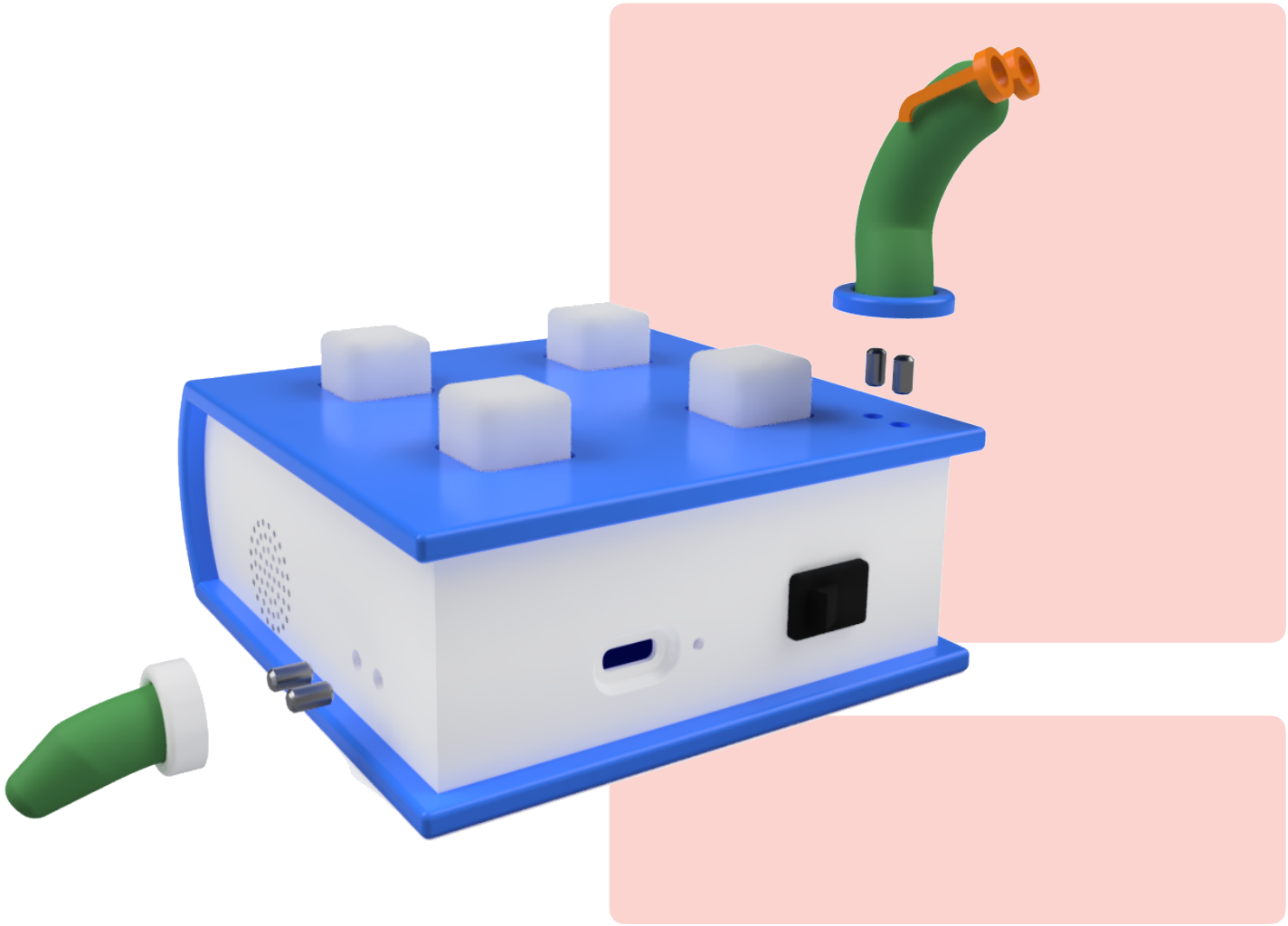


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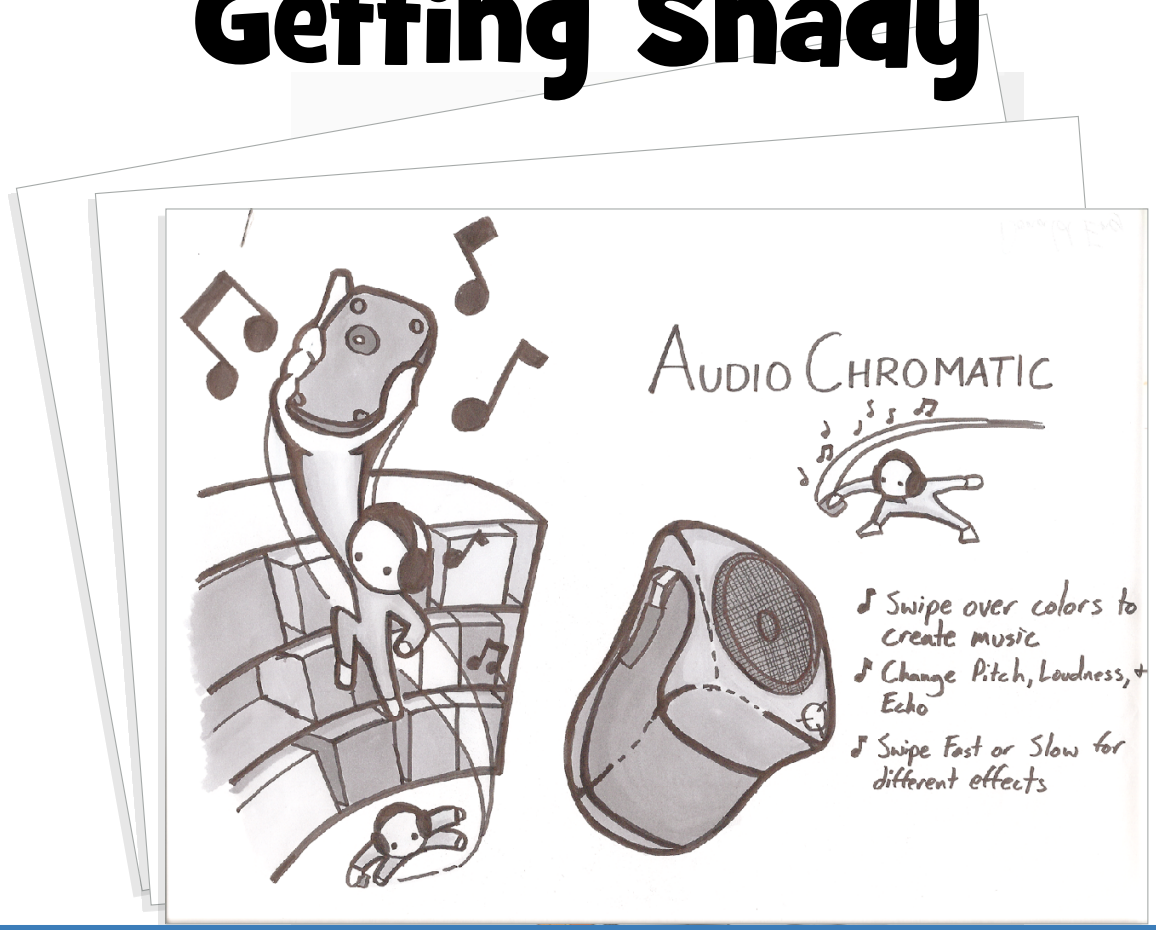
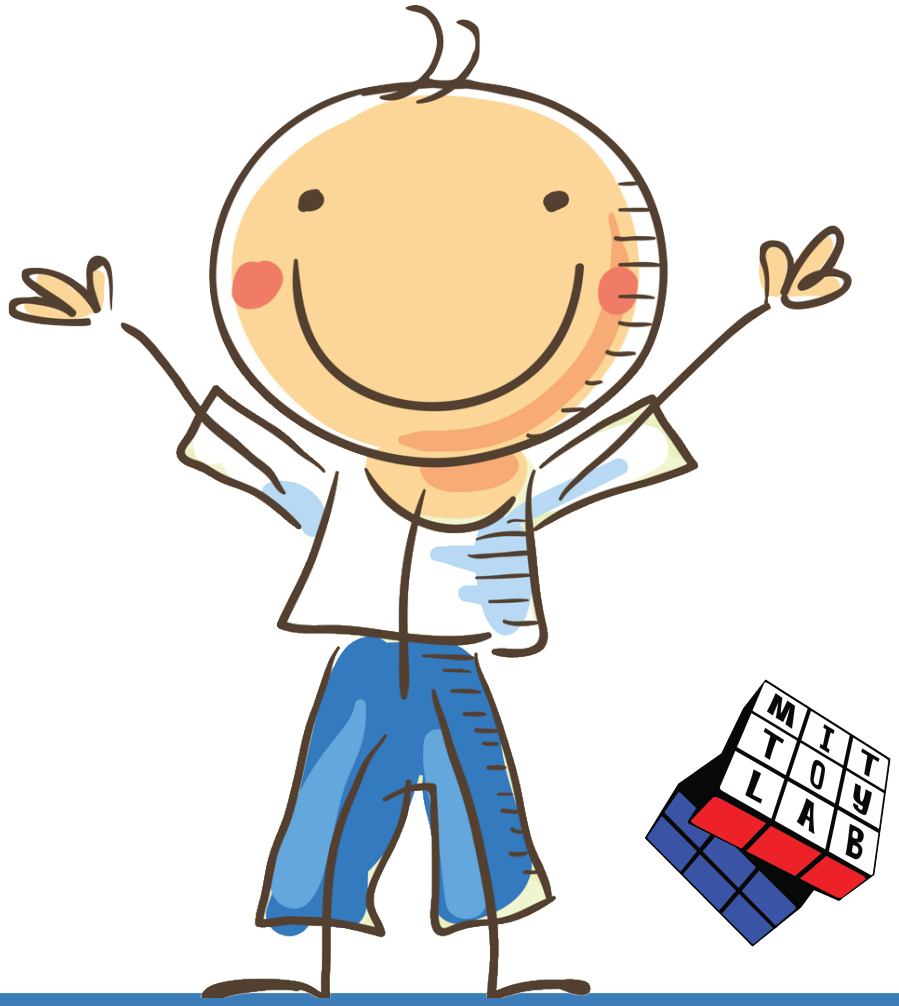
Getting Shady

(aka using a marker)




No Peeking Please!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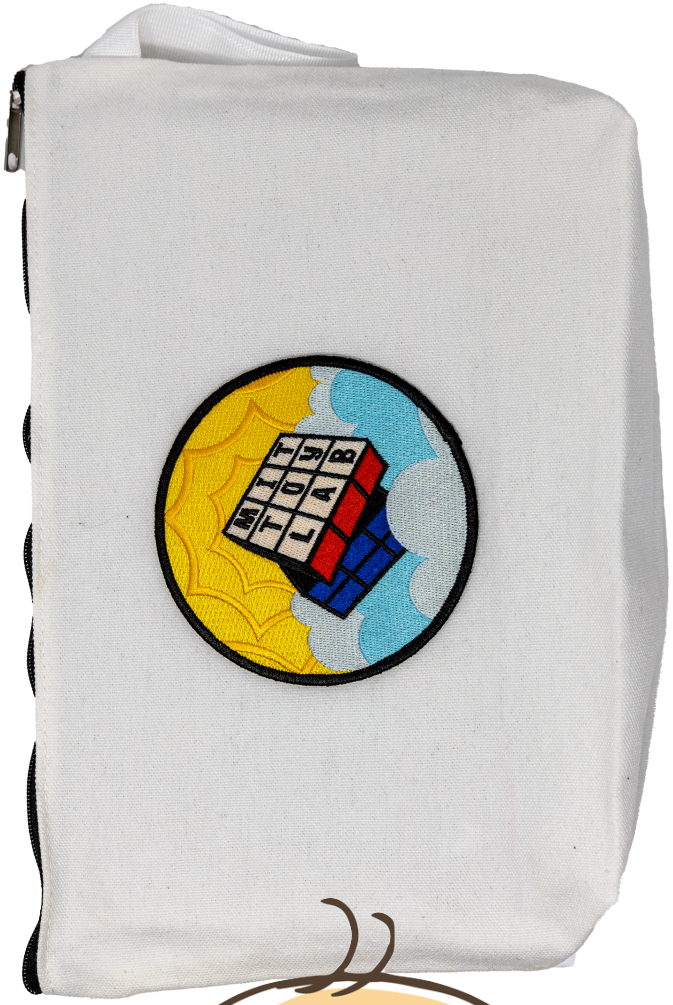
No Peeking Please!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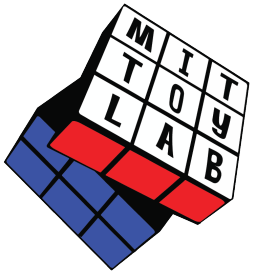
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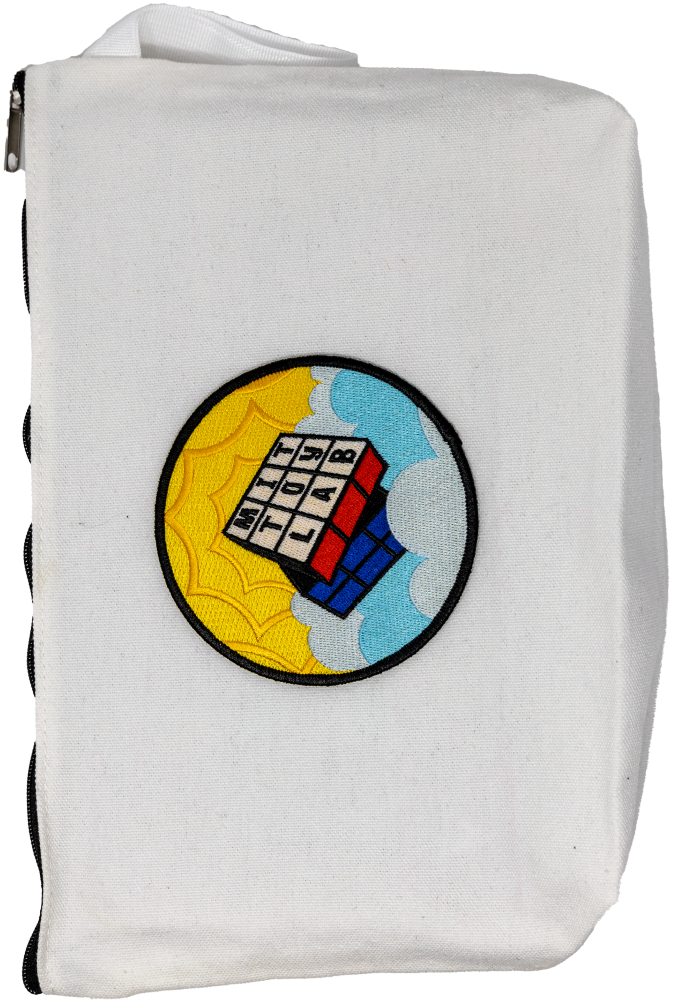
PRISMACOLOR
PREMIER
ART ALTERNATIVES
COMPASS
COMPAS
COMPÁS
WESTCOTT
STAINLESS STEEL
copic ciao
MIT TOY LAB


COPIC ciao
100
C-7
C-5
C-3
C-1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MEDIUM BROAD
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C-1
SUPER BRUSH


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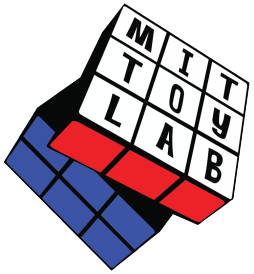
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MEDIUM BROAD
COPIC ciao
100
C-7
C-5
C-3
C-1
SUPER BRUSH

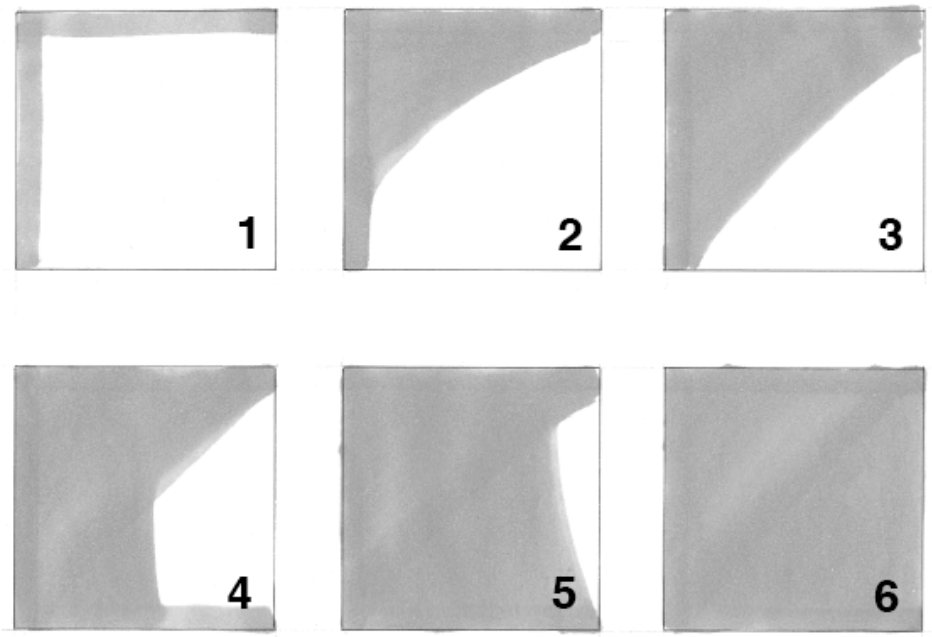
Using a marker

Keep a wet edge

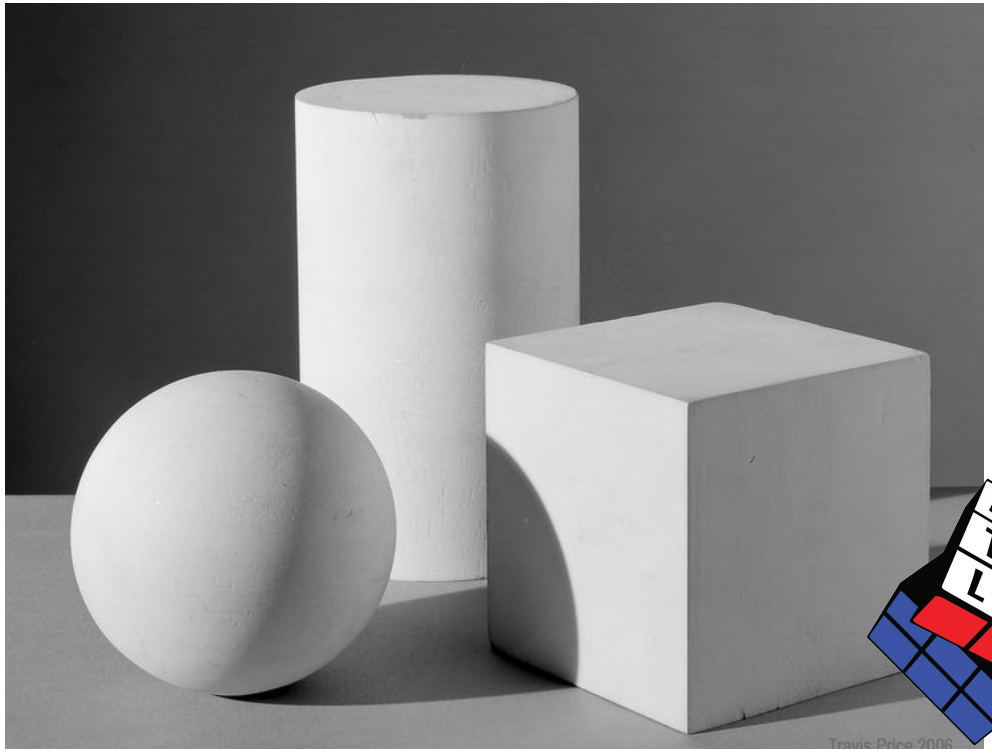
Keep marker moving

Overlap strokes

Constant speed



Light and shade



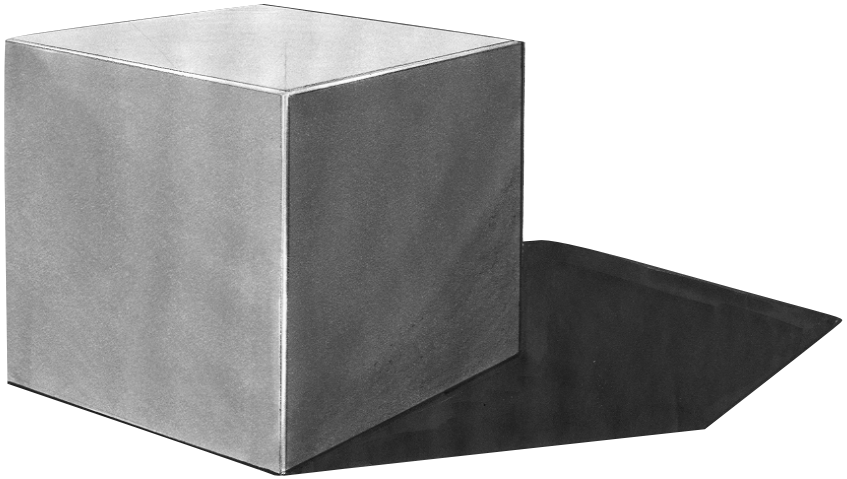
Light and shade

Choose a light direction

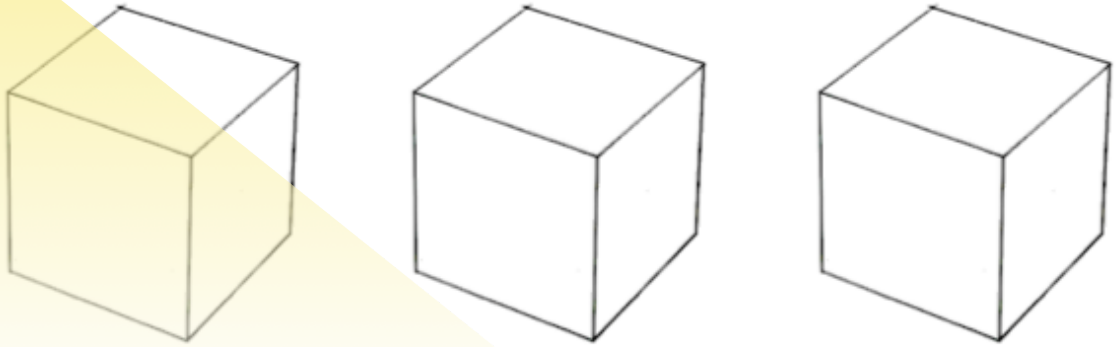
1-2-3 method

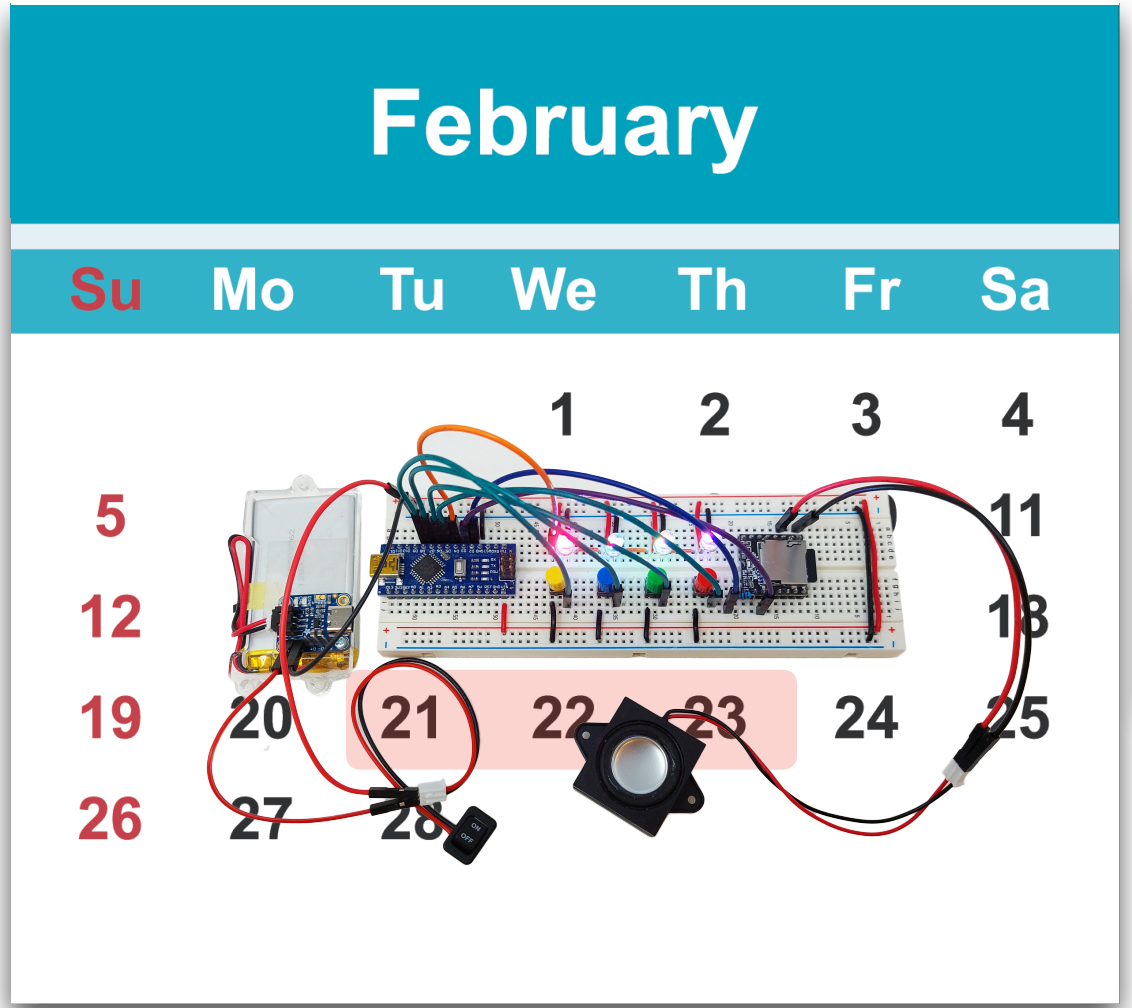
30%, 50%, 70% gray

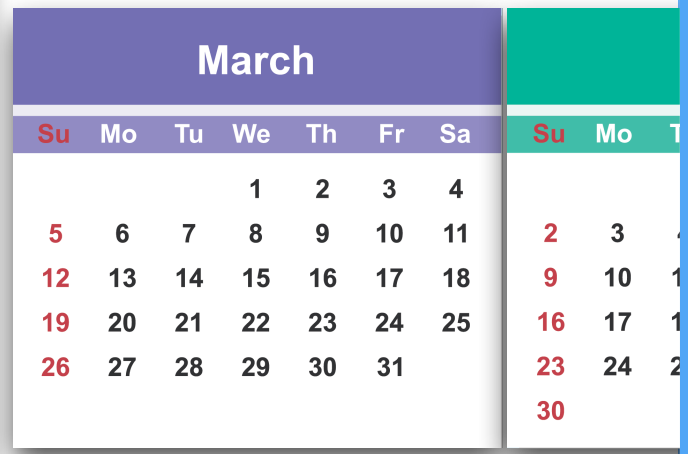
Start with lightest



Let's practice!




February
Su Mo Tu We Th Fr Sa
1 2 3 4
5 11
12 18
19 20 21 22 23 24 25
26 27 28


March
Su Mo Tu We Th Fr Sa
1 2 3 4
5 6 7 8 9 10 11
12 13 14 15 16 17 18
19 20 21 22 23 24 25
26 27 28 29 30 31
Su Mo
2 3
9 10
16 17
23 24
30

February

Course Info
Syllabus
Course Staff
Teams
Toy Museum

designy

Accessibility

Fri, Feb 24: The theme
Please bring your sketch kit, name tag and design notebook.

Lecture 5: Getting shady, Toober breadboard toolkit
Lecture 4: Get the points, Toober electronics overview slides

Labs Week of Feb 20

Lab 2: **Toobers, get ready to play!** Ma~~Brea~~king bread(boards) together
Toobers electronics breadboarding

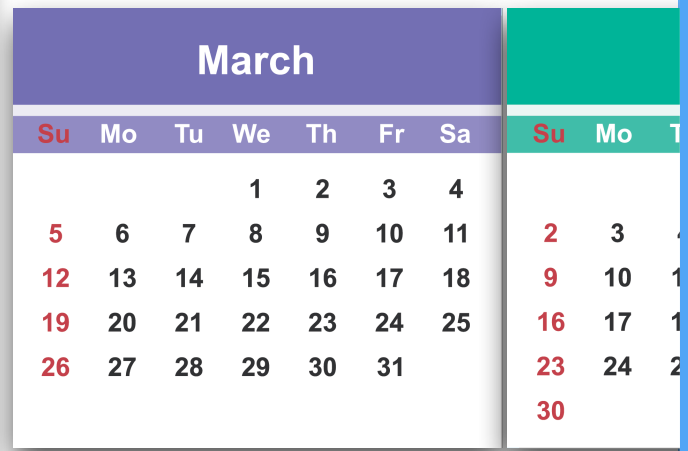
Please bring your laptop with the Arduino IDE installed (see the to-do section).

We will be taking your picture for your portfolio page in lab.

In lab: Toober breadboarding instructions

Things to-do

before lab 2	Please install and configure your Arduino IDE (click on "Toobers"). Ask for help on the #ask-the-TAs channel in Slack
before lab 2	Please check the Lab 2 makeup schedule for your room and time assignment, if you are doing a Lab 2 makeup.
later this week	Sign up and attend extra lab hours to finish your pull toy or toobers breadboarding. (Thursdays 9AM-12PM, 2-5PM, 7-10PM, and Fridays 9AM-12PM)

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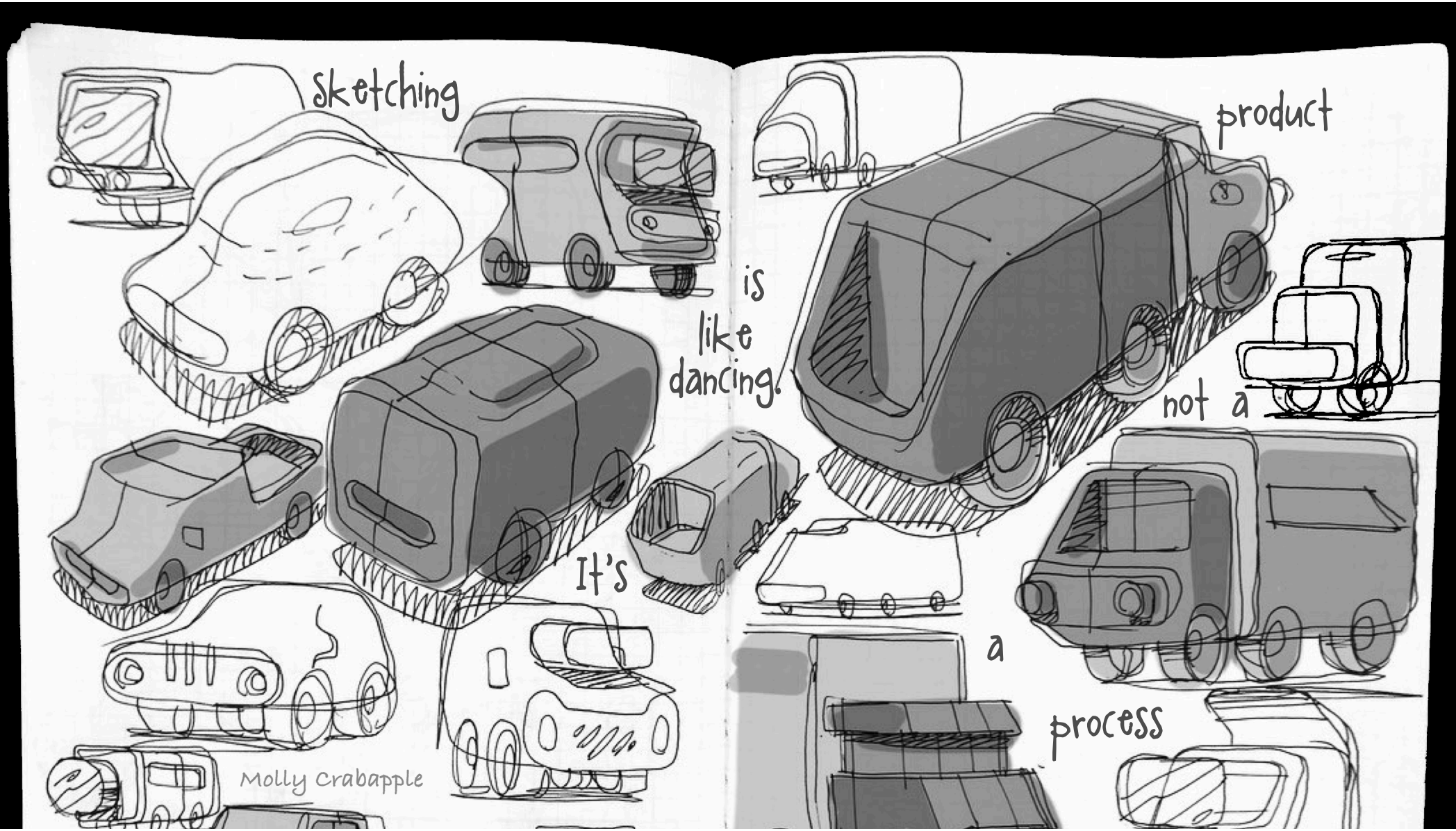
Sketching
is
like
dancing.
It's
product
not a
a
process
Molly Crabapple