How Architects Work
- & -
Drawing Floor Plans

~~Look & Feel (Mood Board)~~

~~Program~~

~~Spatial Organization (Bubble Diagram)~~

Design & Create Drawings

(Floor Plans & Elevations)

Physical Model

How do architects turn a program into a floor plan?

Program:

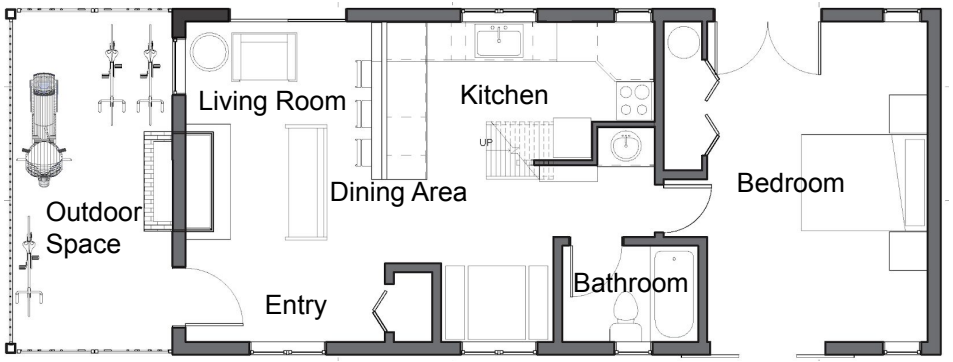
What spaces a building must have, depending on how people will use the building

Example:

- Kitchen
- Dining room
- One bedroom
- Bathroom
- Living Room
- Outdoor space

Floor Plan:

A scale drawing that looks down on the space from above, like a birds-eye view inside the building.

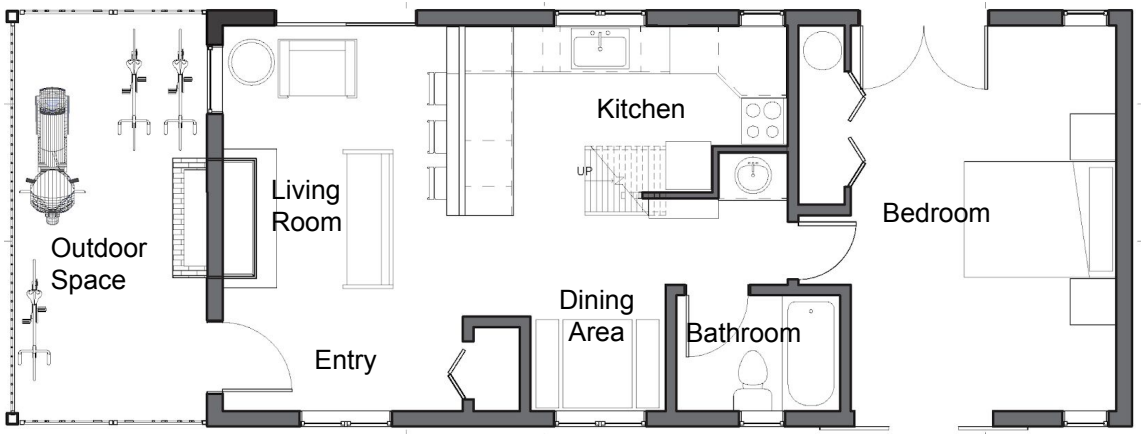


Some things to think about . . .

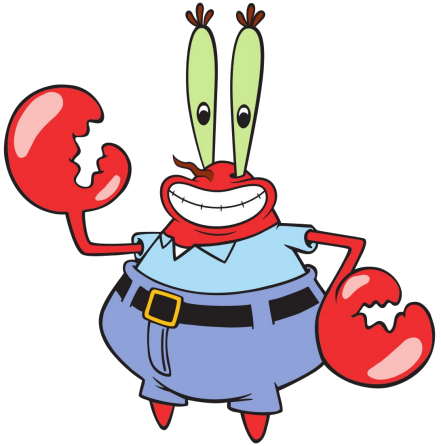
Example:

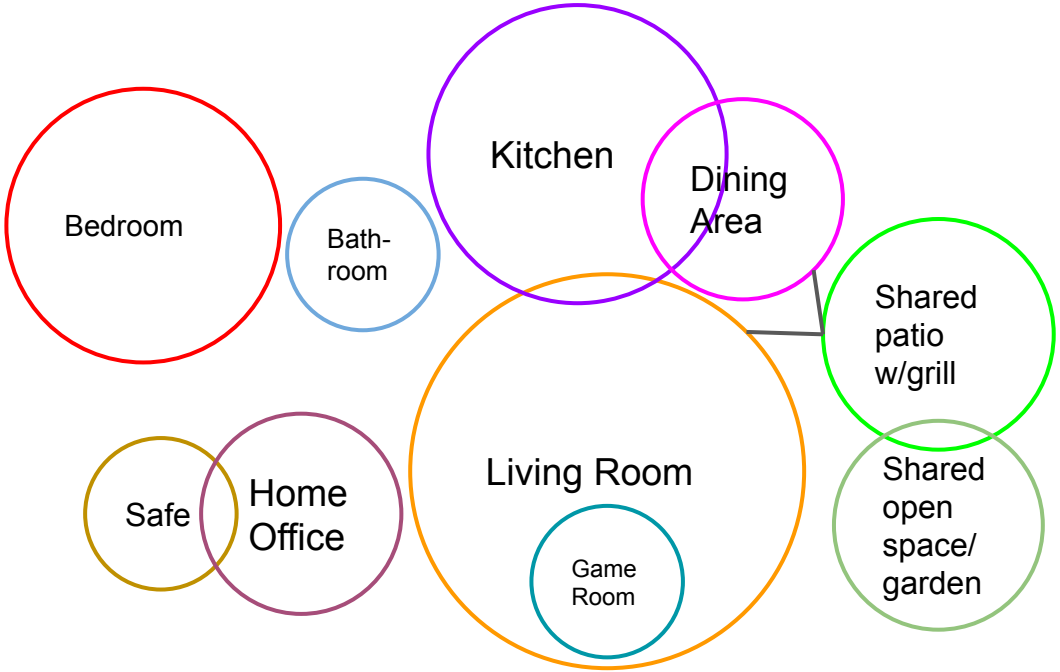
- Kitchen
- Dining room
- One bedroom
- Bathroom
- Living Room
- Outdoor space

- Sequence
- Light & views in/out
- Space Size…
- Room for Furniture
- Room for People
- Flexibility & Adaptability



Program for Mr. Krabs' ADU





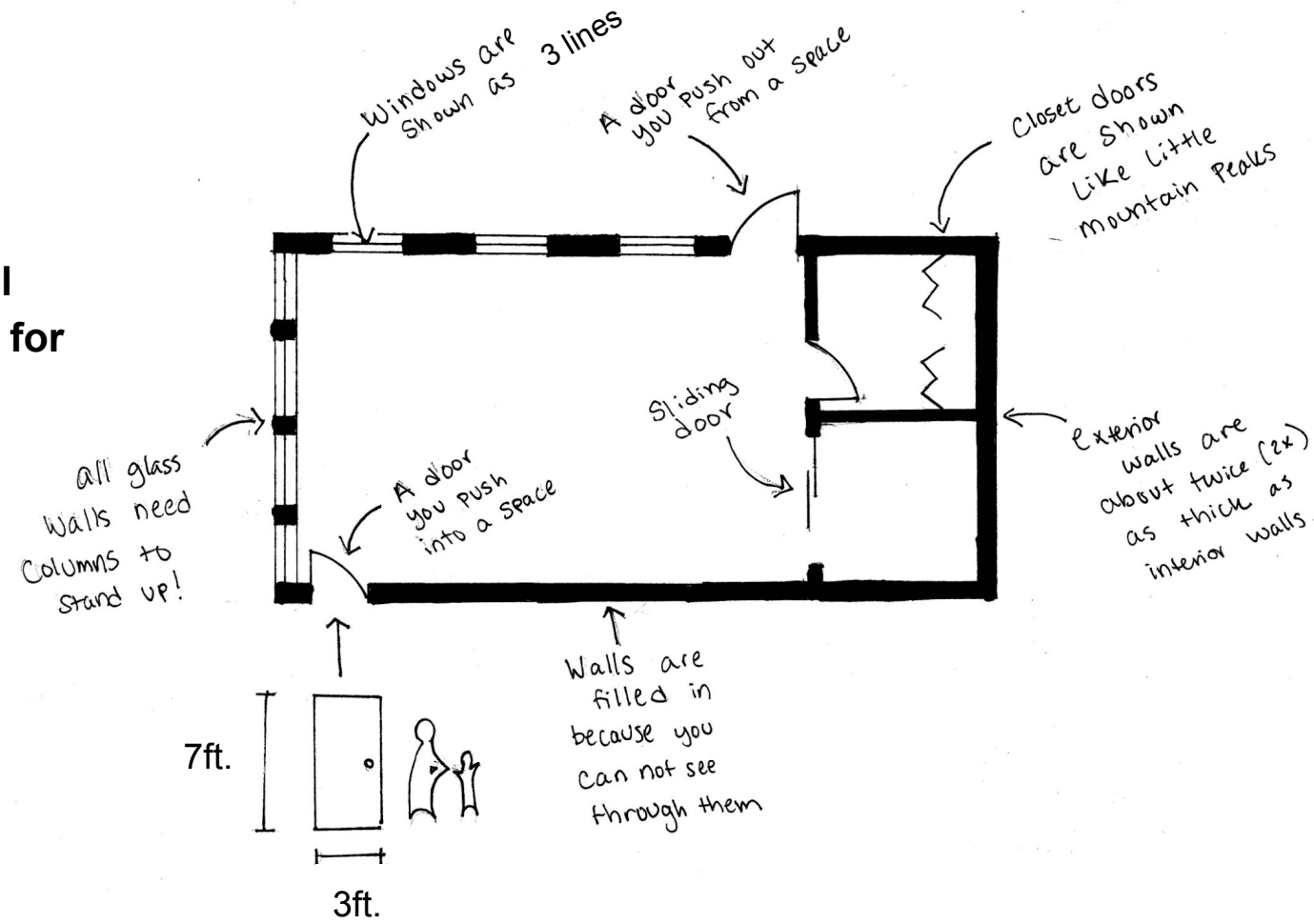
How Architects Work : Virtual Modeling Demo!

To draw your ADU Floor Plans, you will need to know some architectural drawing conventions!

Architectural drawing conventions are graphic (symbolic) representations of real-life parts of our design (like a door, window, wall, etc.) drawn in a specific way so that everyone looking at the plans understands them.

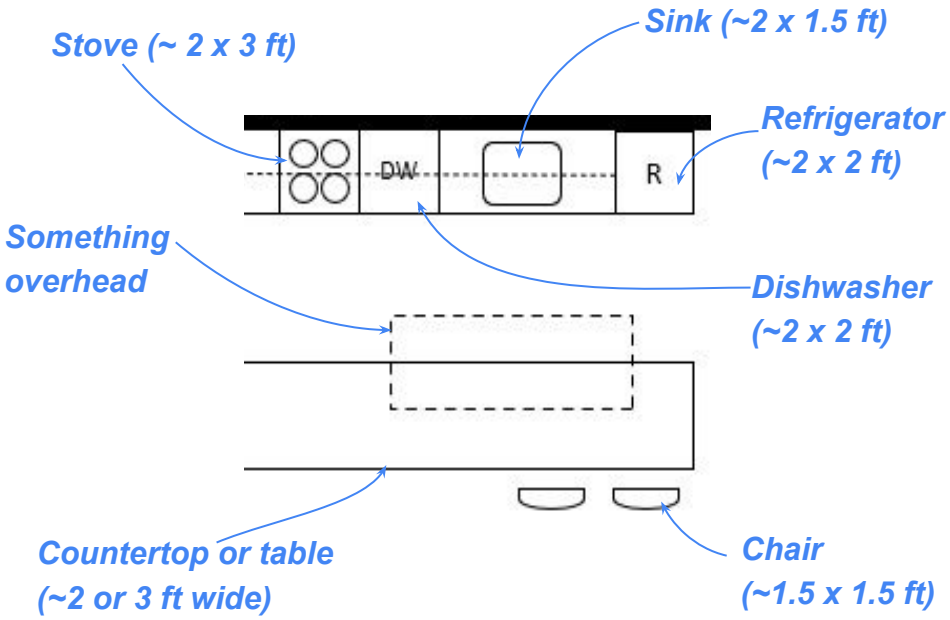
Reference

Example Floor Plan showing architectural drawing conventions for Walls, Windows, and Doors...

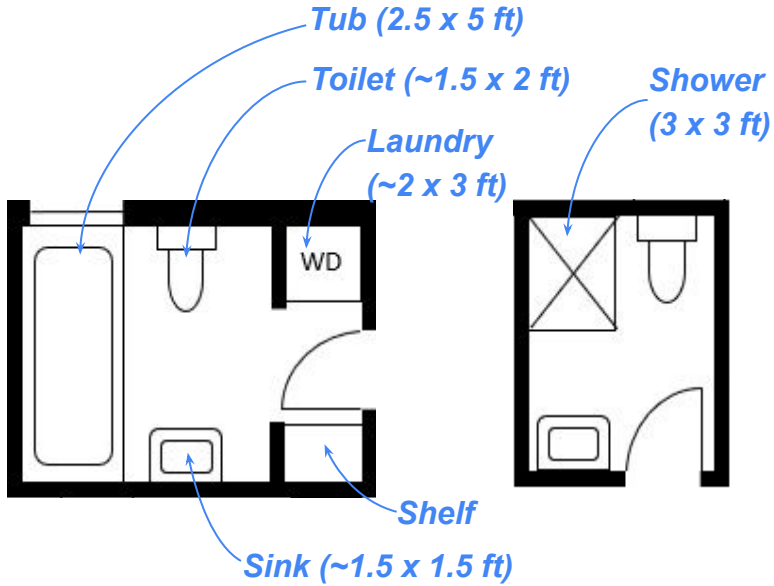


Reference

Kitchen example...

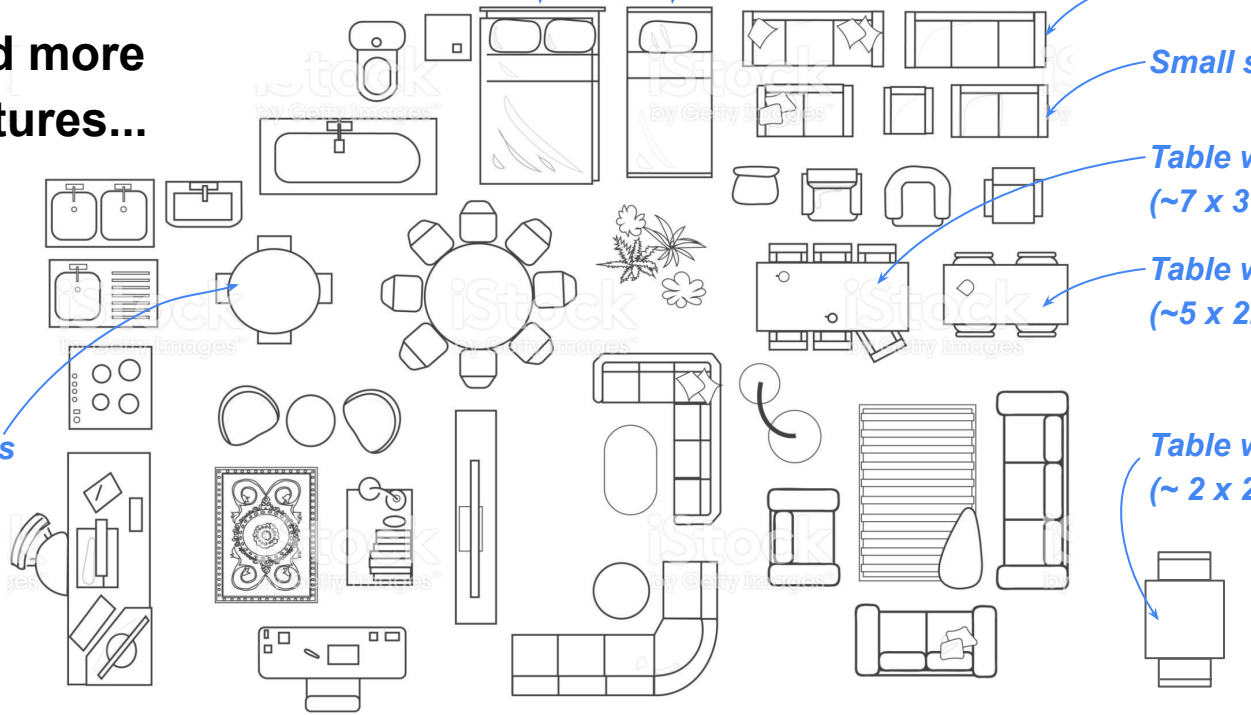


Bathroom examples...



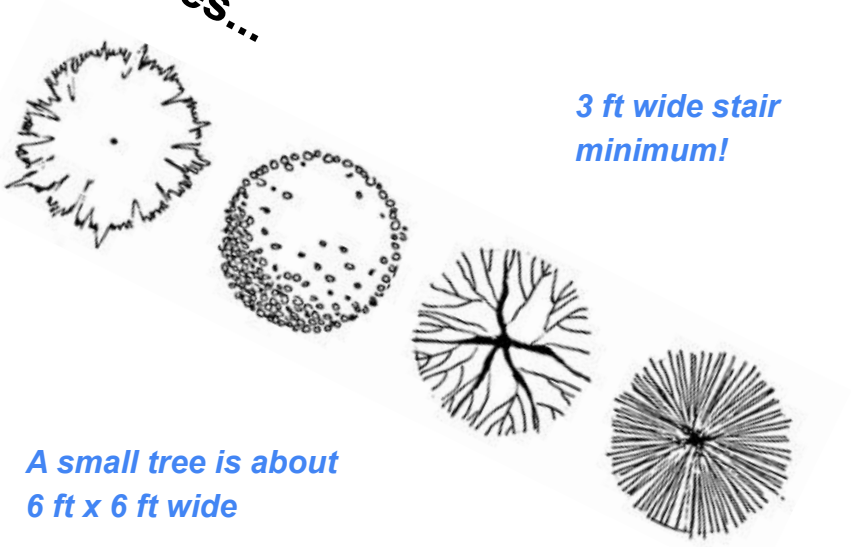
Reference

Furniture and more plumbing fixtures...



Reference

Trees...

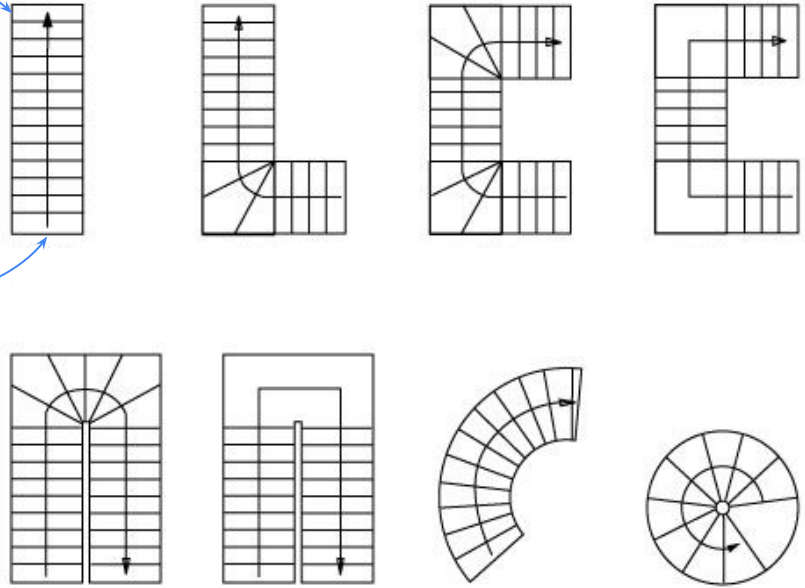


A small tree is about 6 ft x 6 ft wide

Stairs... if you dare!

~1 ft tread (stepping surface) minimum!

3 ft wide stair minimum!



Another convention is Scale! Architectural drawings are scaled drawings . . .

A scaled drawing shows objects as much smaller than they are in real life, with accurate proportions, using a measurable unit to “shrink” them.

This means the actual size of objects shown in the drawing can be found by measuring the drawing.

For example, a scale of ***½ inch = 1 foot*** means ½ inch on the drawing paper represents 1 foot in real life.

Small table
1 inch x 1 inch on paper
(at ½" scale)

***We will be using a grid to measure our drawings, instead of fractions.**

Small table
2 feet x 2 feet in real life
(at full scale)

Activity!

Let's practice some <u>architectural drawing conventions</u> together!

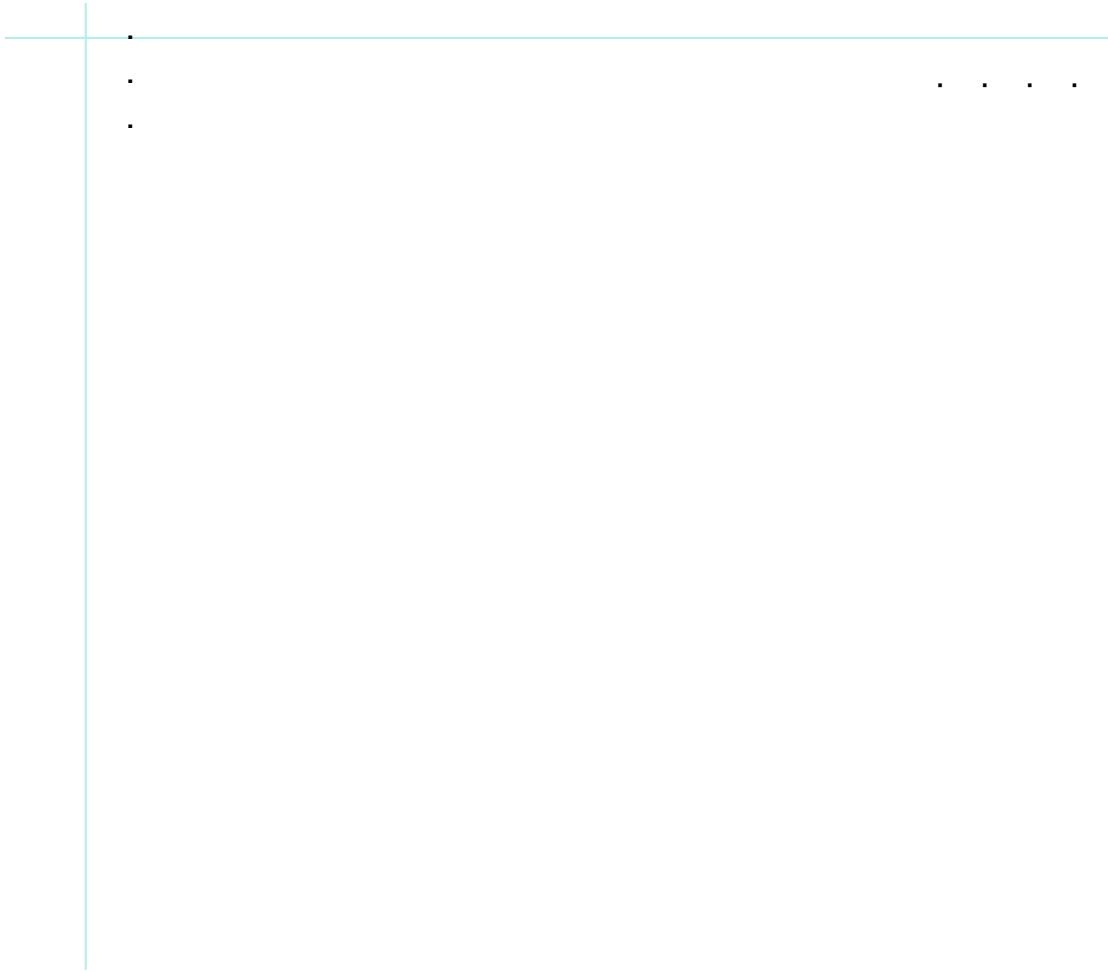
Architectural drawing conventions are symbolic representations of real-life parts of our design (like a door, window, wall, etc.) drawn in a specific way so that everyone looking at the plans understands them.

- ***Plain paper***
- ***Ruler or straight-edge***
- ***Standard pencil***
- ***Color pencils / markers / crayons***

Activity!

Together, let's draw a grid:

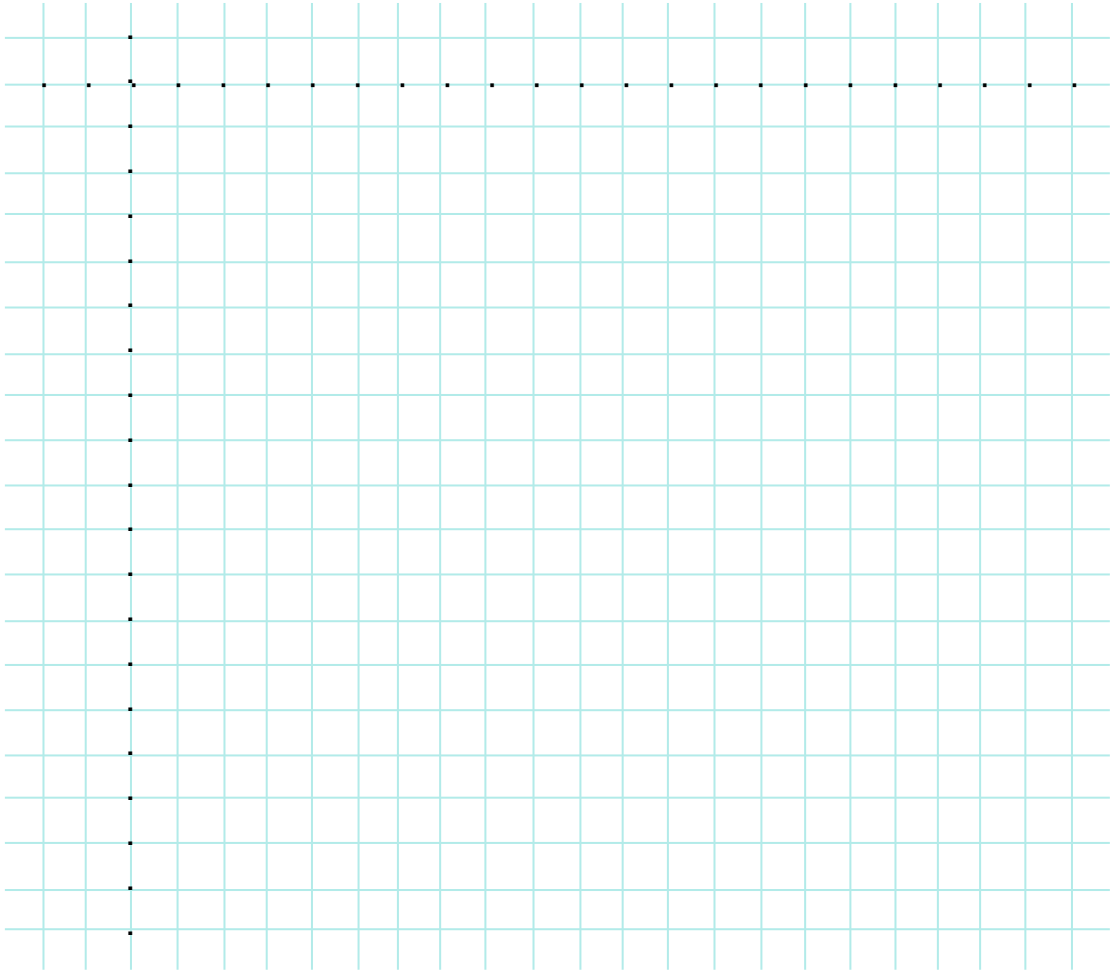
- ***21 dots in a vertical row, as evenly spaced as possible***
- ***21 dots in a horizontal row...***
- ***Parallel horizontal lines, along the dots***
- ***Parallel vertical lines...***
- ***Each box is one 1ft x 1 ft***



Activity!

Together, let's draw:

- ***Exterior walls***
- ***An interior wall***
- ***A window***
- ***A table or countertop***
- ***A seat***
- ***A front door***
- ***A porch or patio***
- ***A garden or grass***
- ***A tree***



This week you will
draw a Floor Plan
of your ADU.

~

Now you know how!