

A COLLECTION *of*  
**REMOTE NEGOTIATIONS**  
*to prompt* **IN-PERSON**  
**INTERACTION**

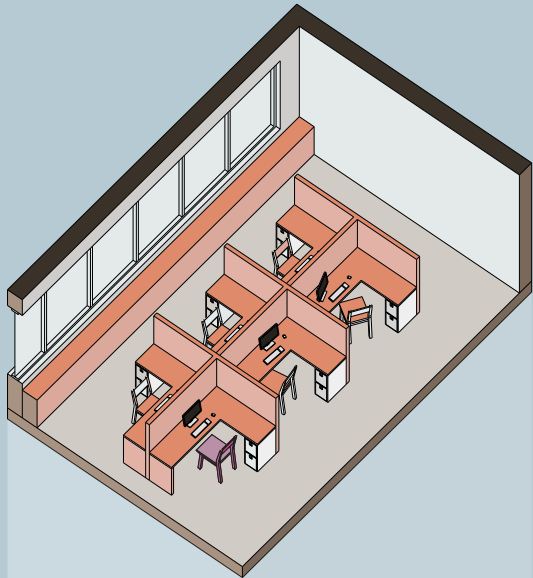
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*Site 1: Home*



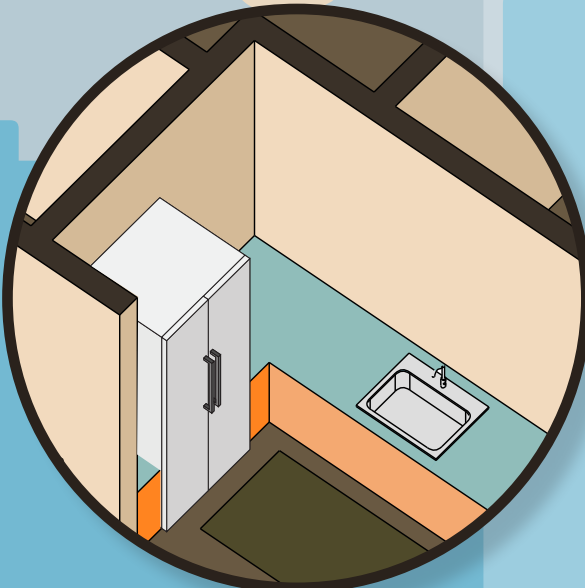
*Site 2: Office*

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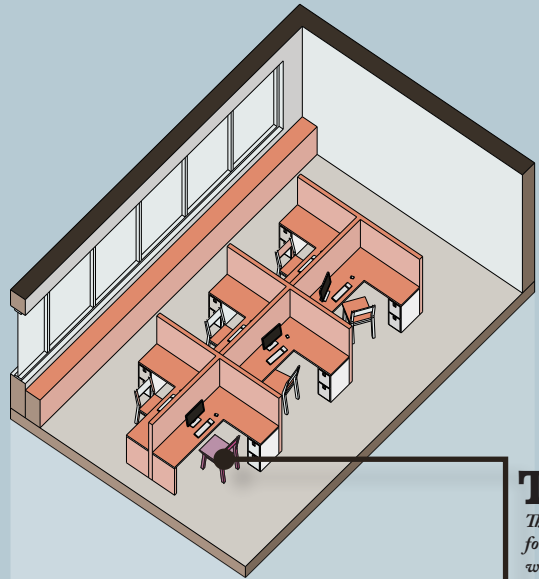
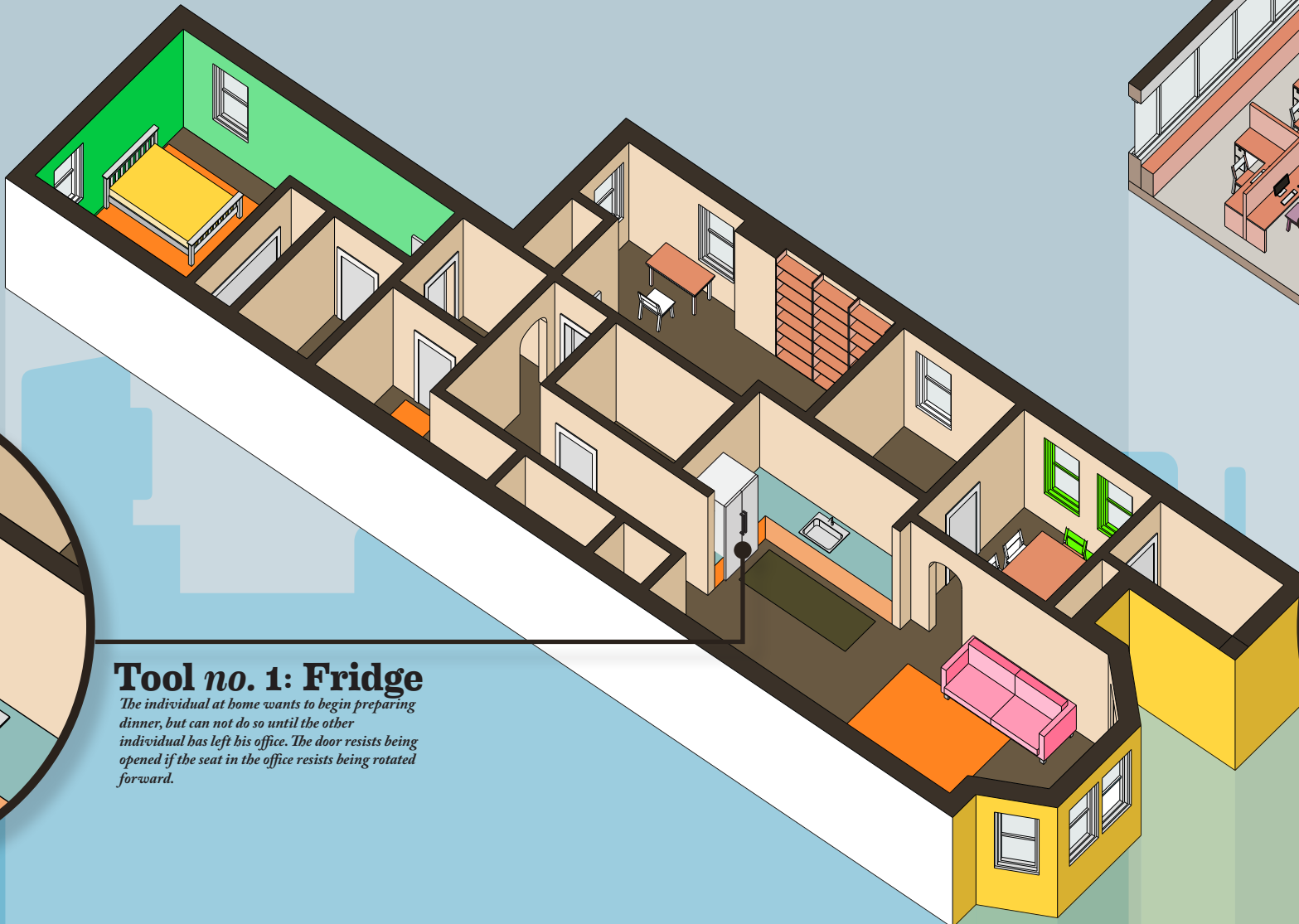
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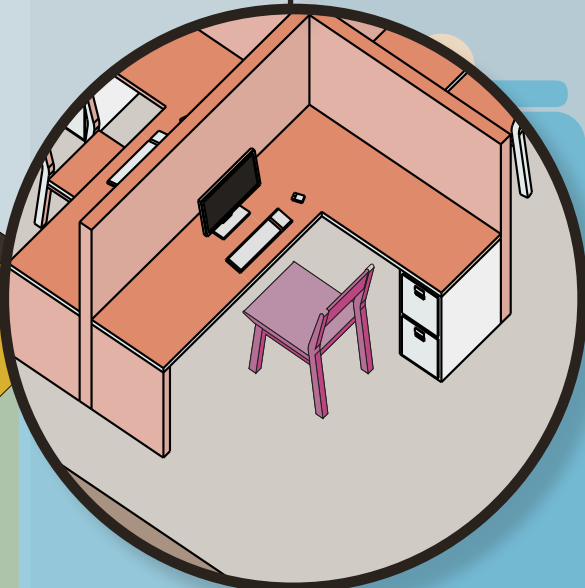
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**Tool no. 2: Chair**  
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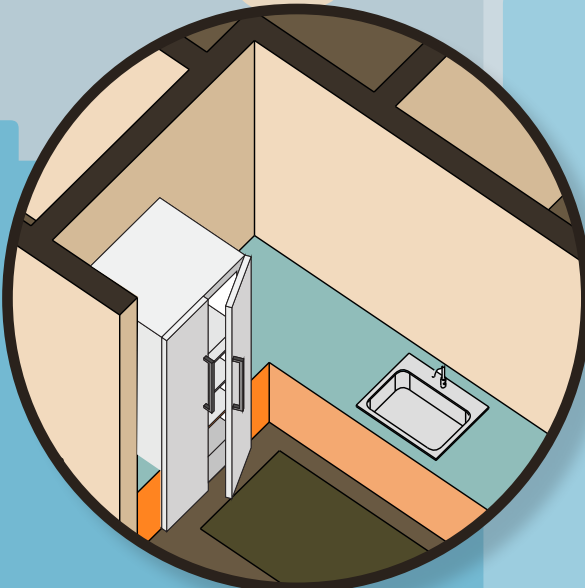


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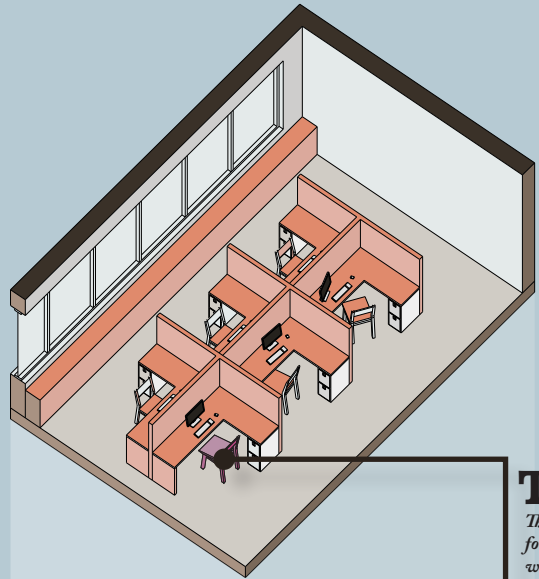
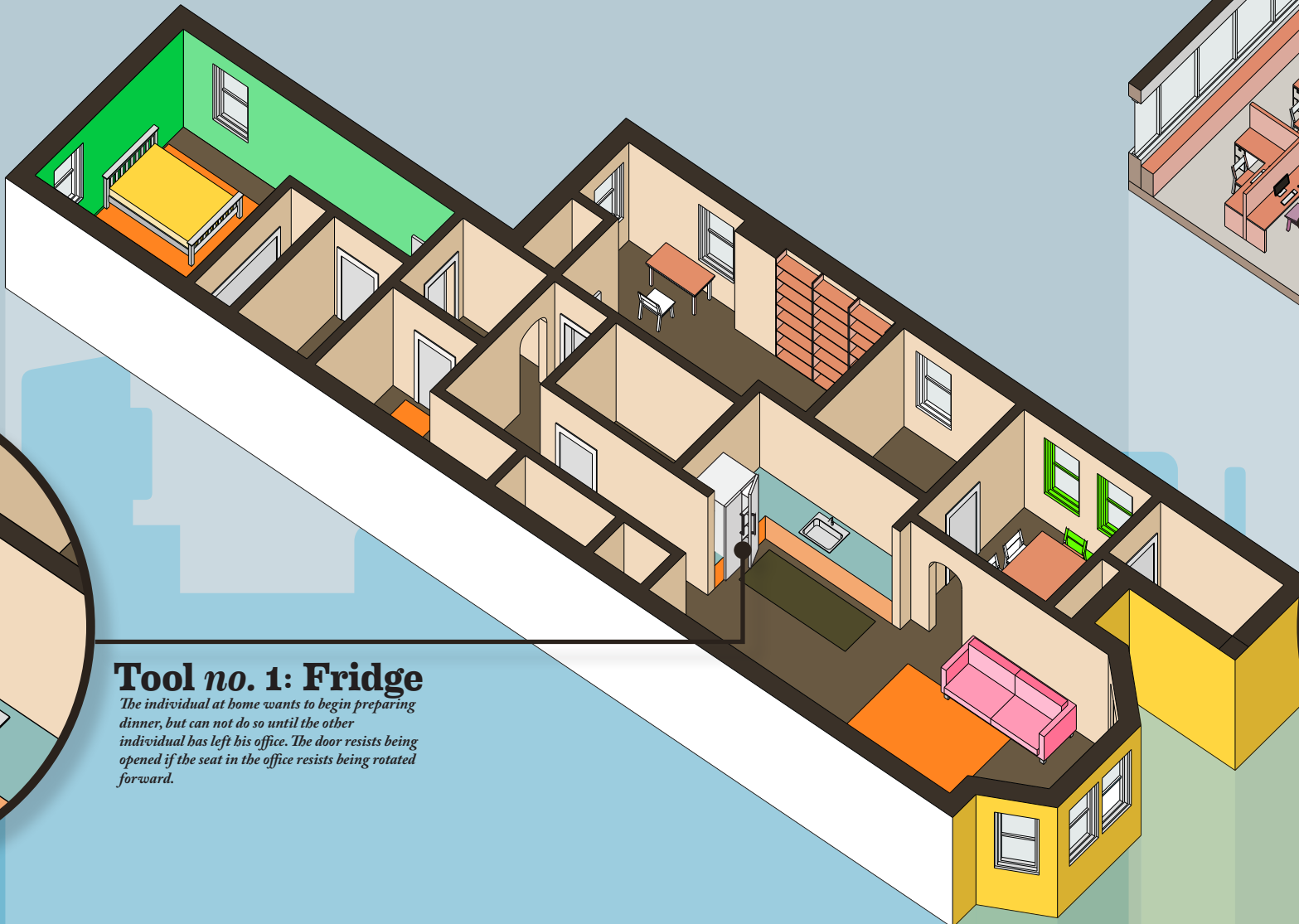
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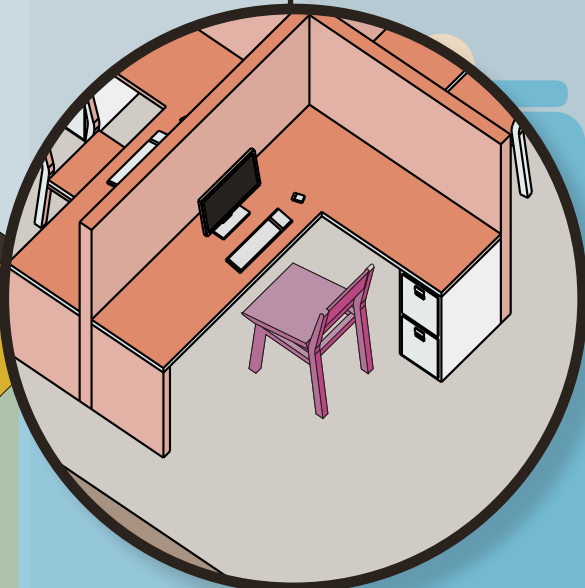
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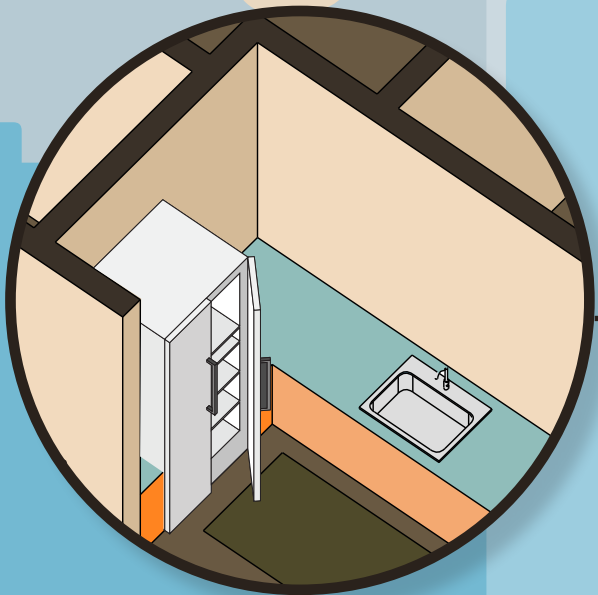


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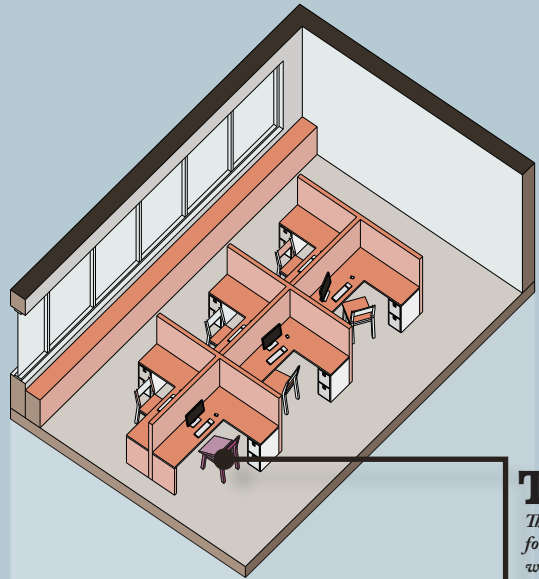
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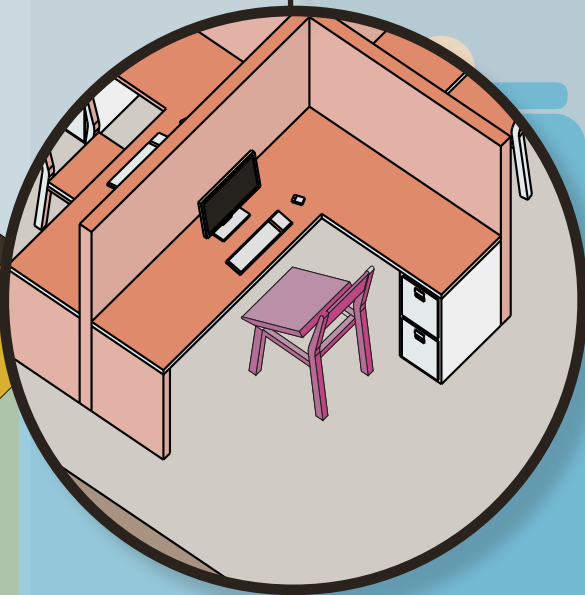
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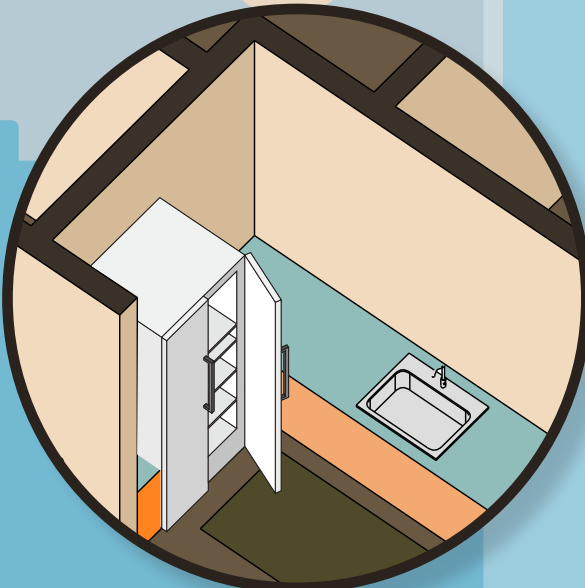


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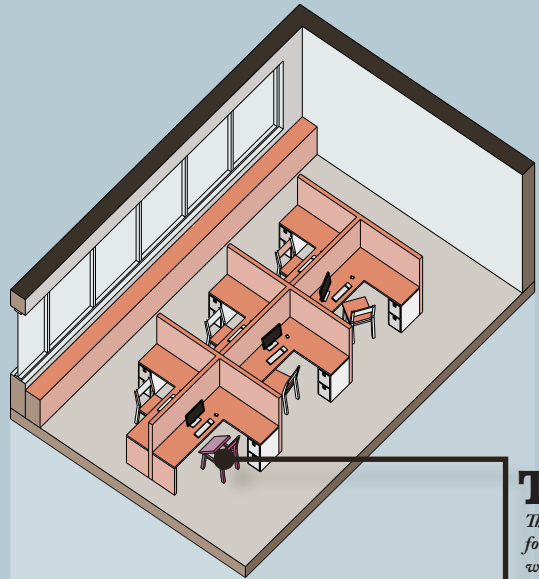
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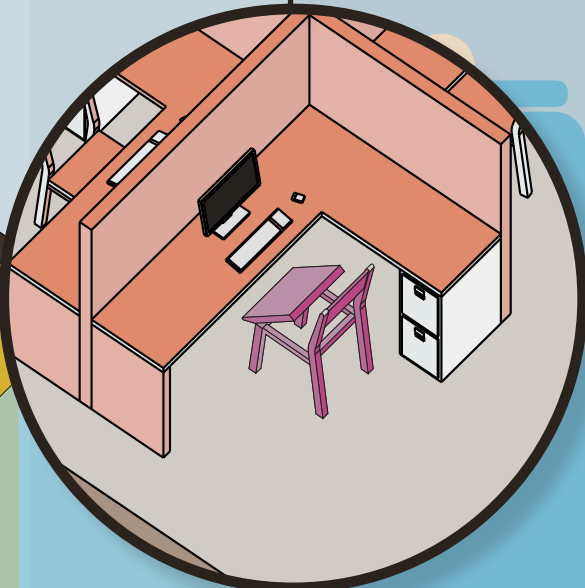
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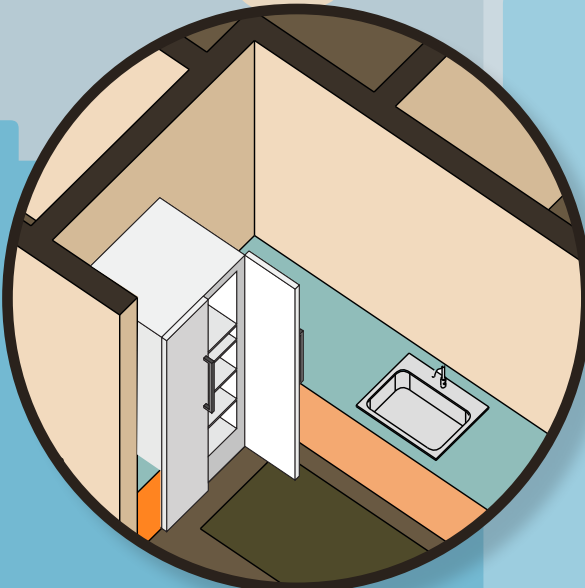


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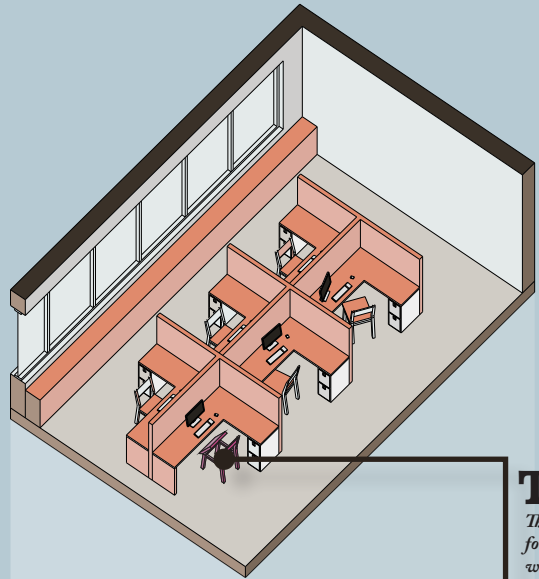
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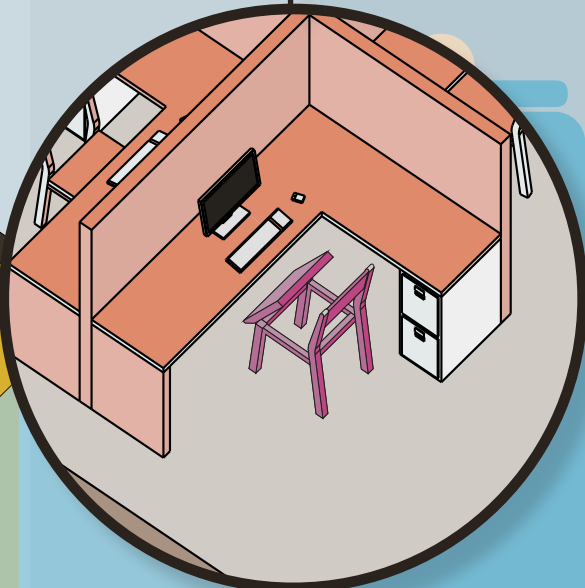
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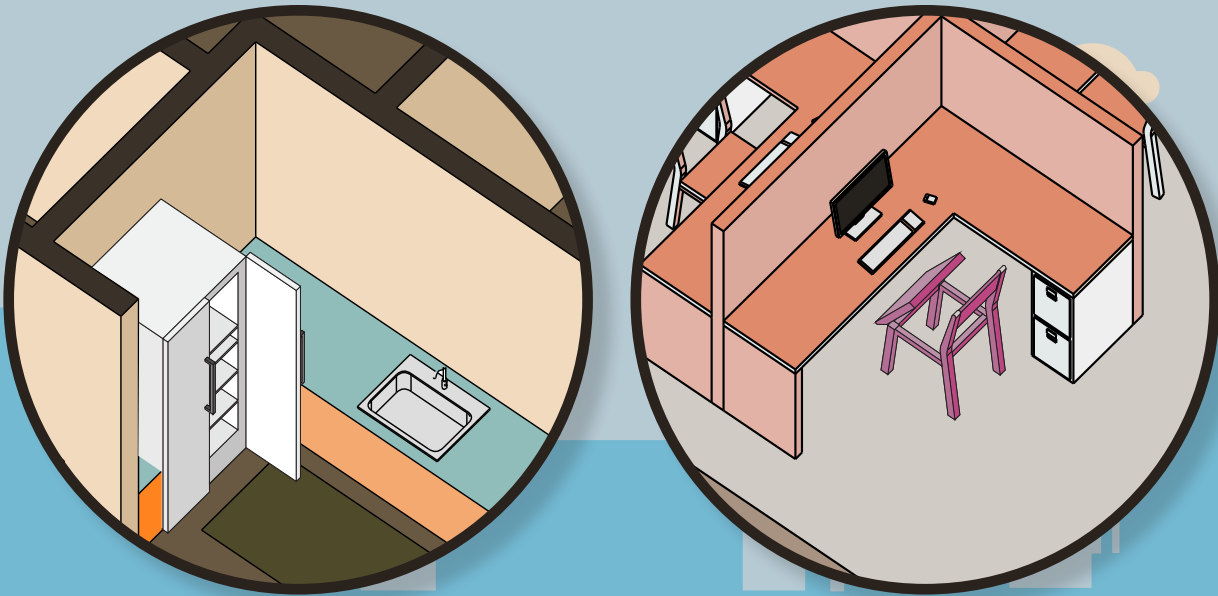


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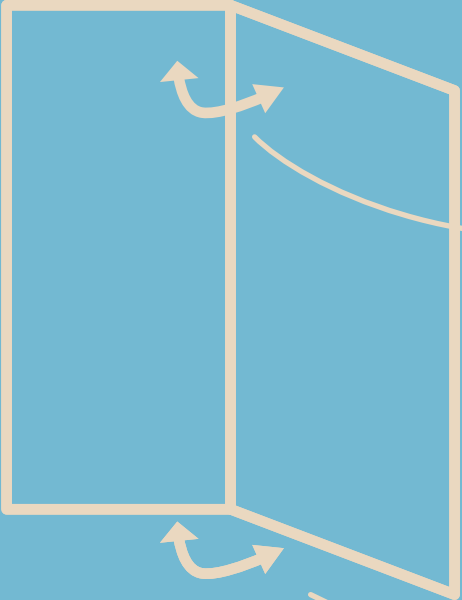
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Fridge

Bend Sensor



Rotating Motor /  
Stepper Motor

Relay

AC Power

Arduino

Chair

Bend Sensor



Relay

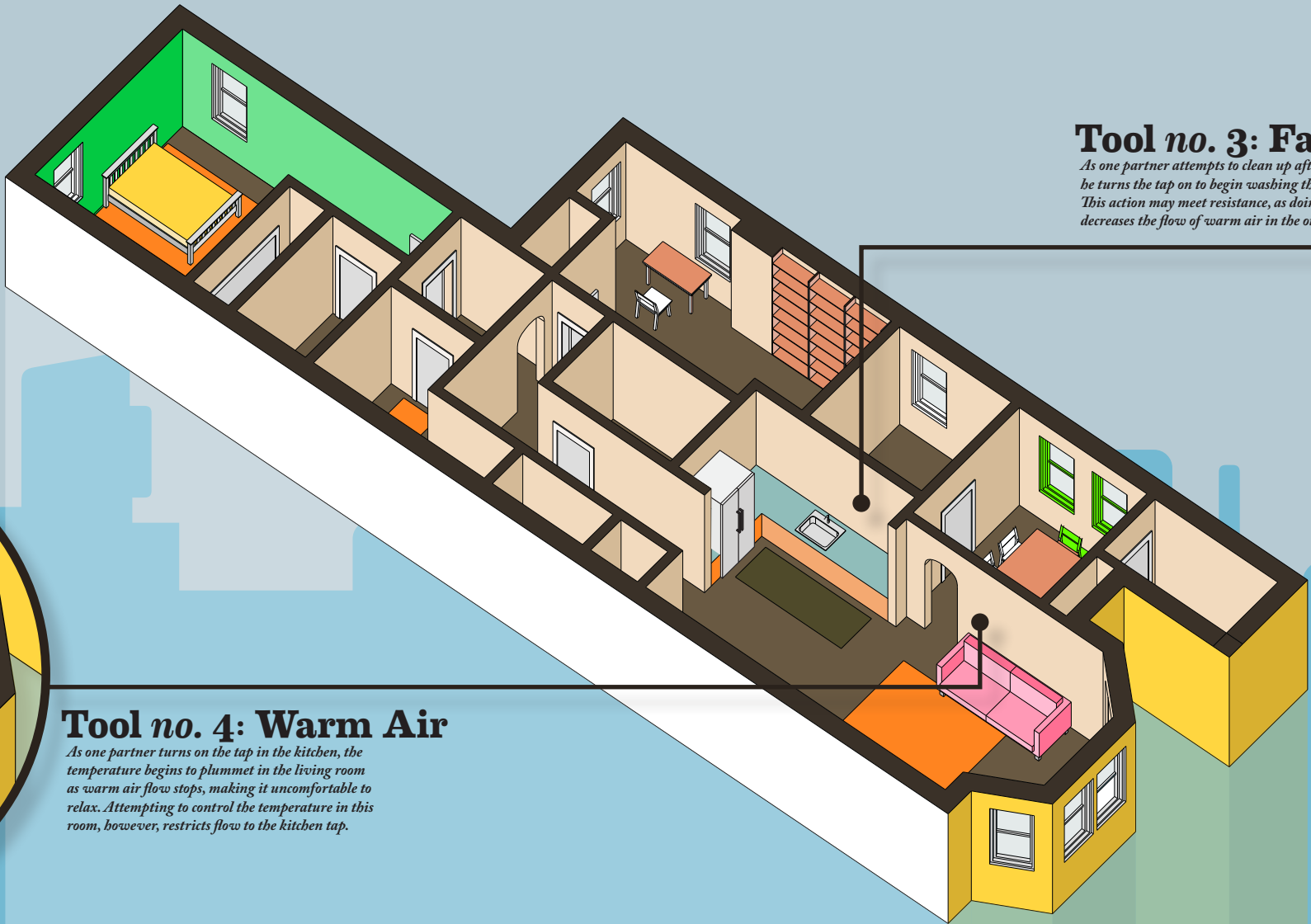
Linear Actuator with Lead  
Screw, Worm Gear - Spur  
Gear Combo

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**Tool no. 3: Faucet**

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**Tool no. 4: Warm Air**

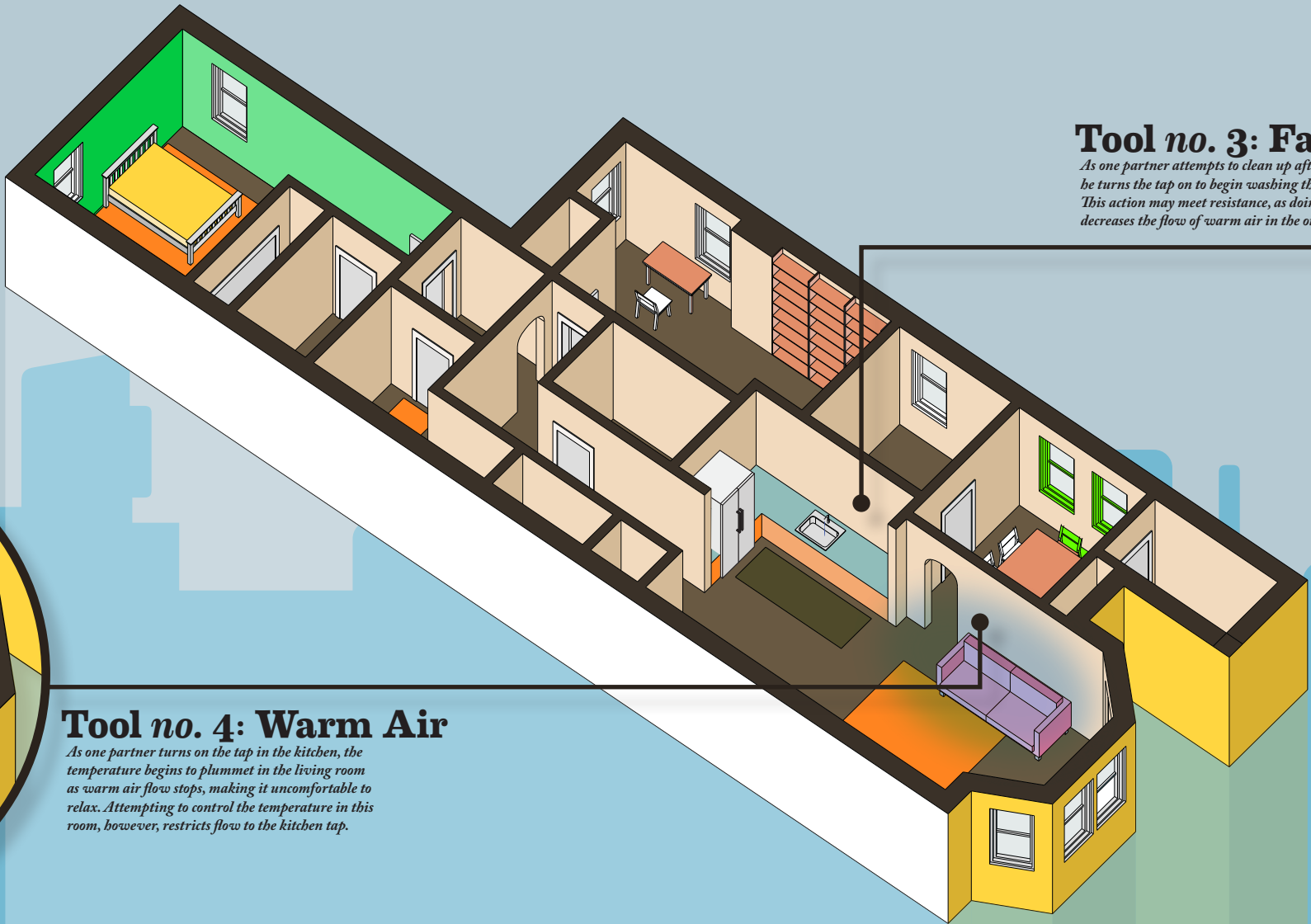
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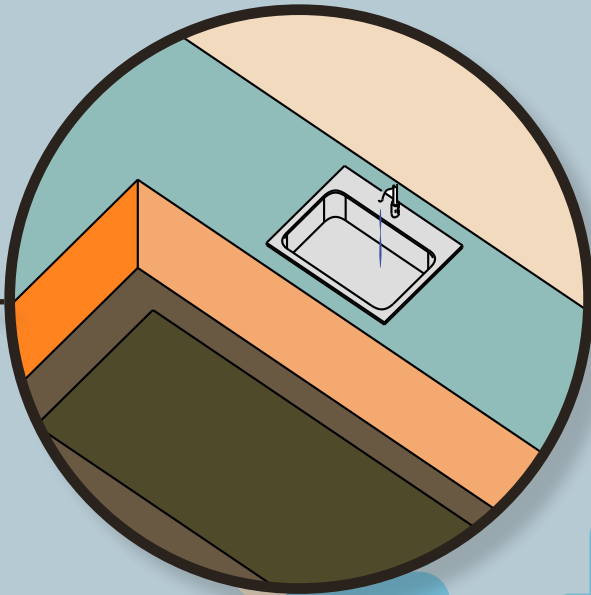
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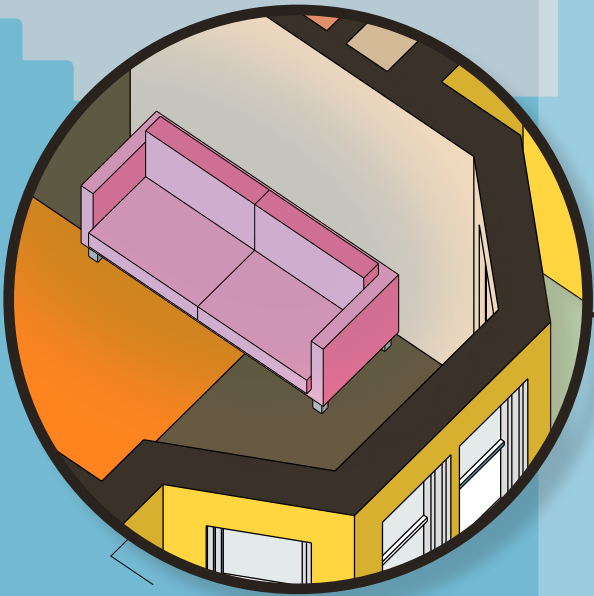
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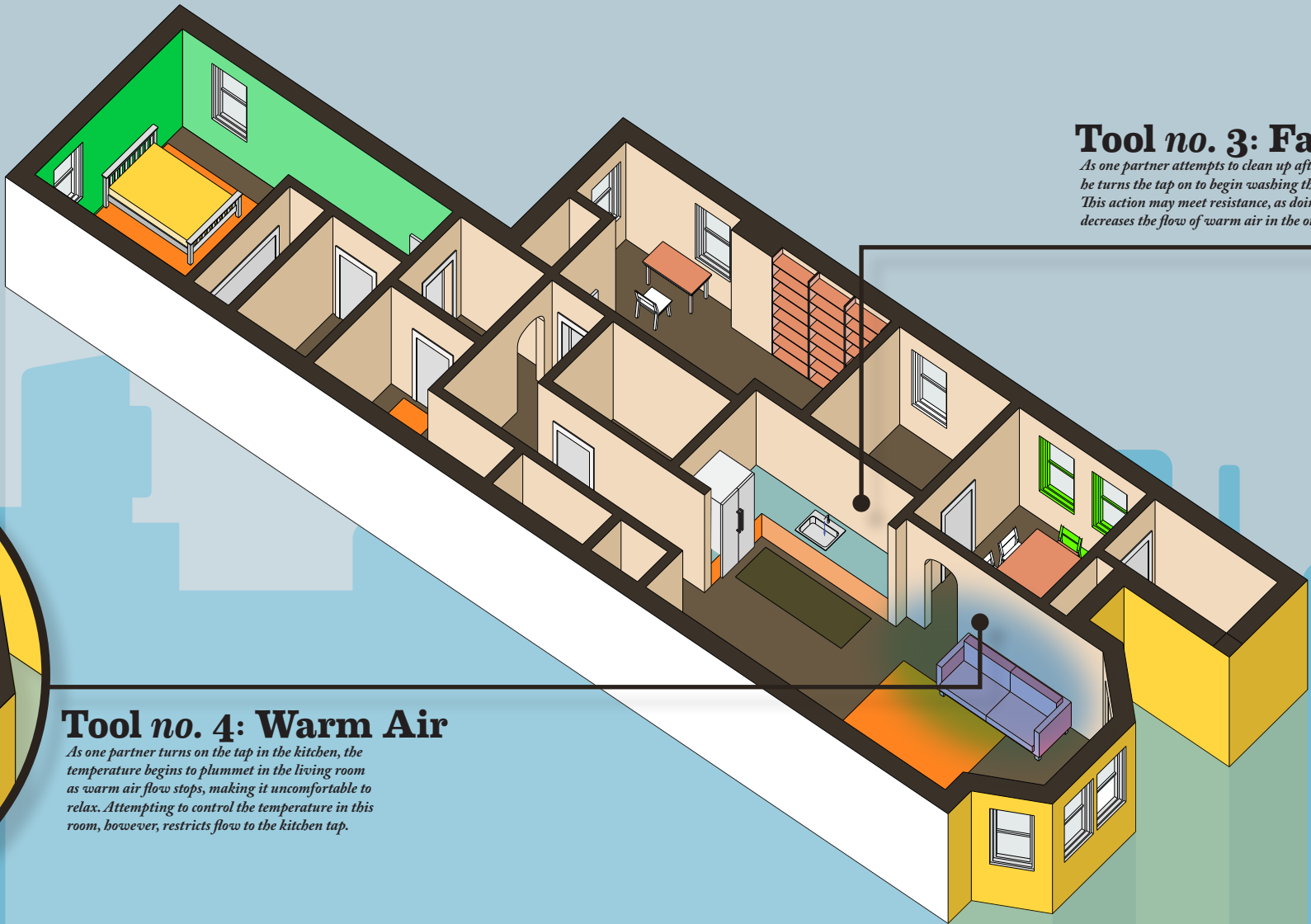


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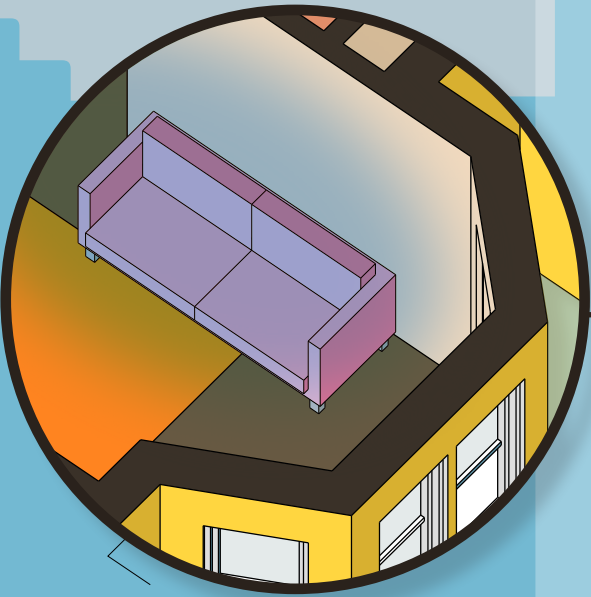
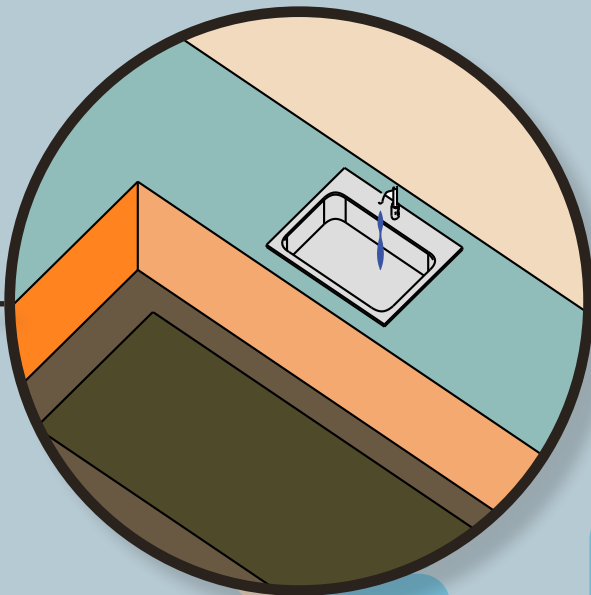


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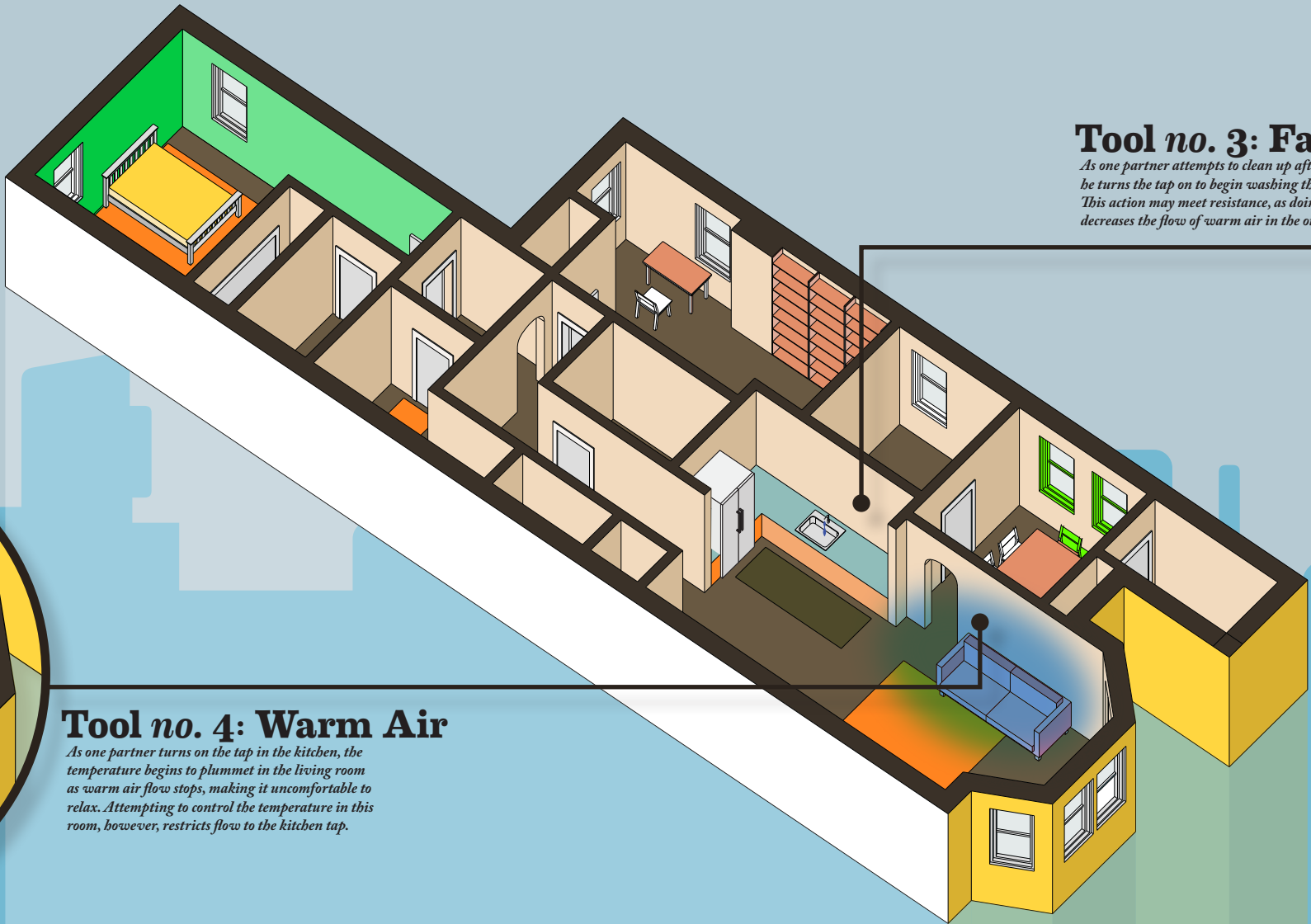


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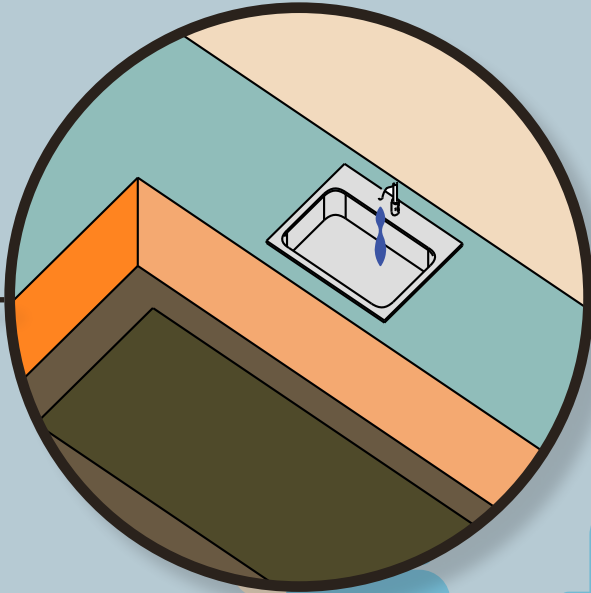
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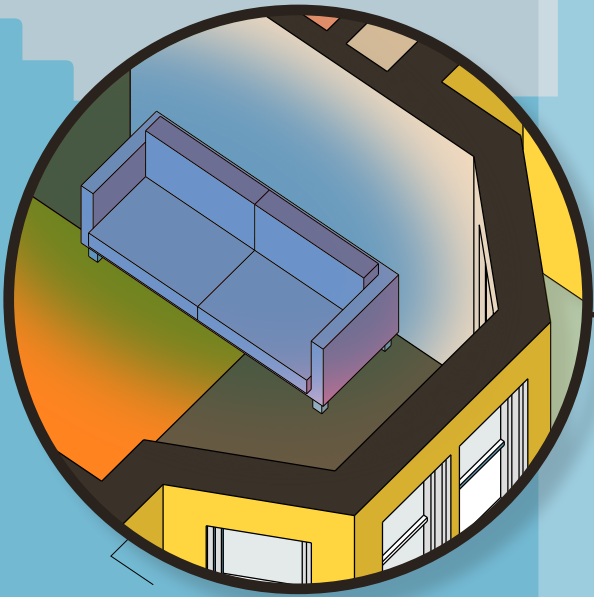
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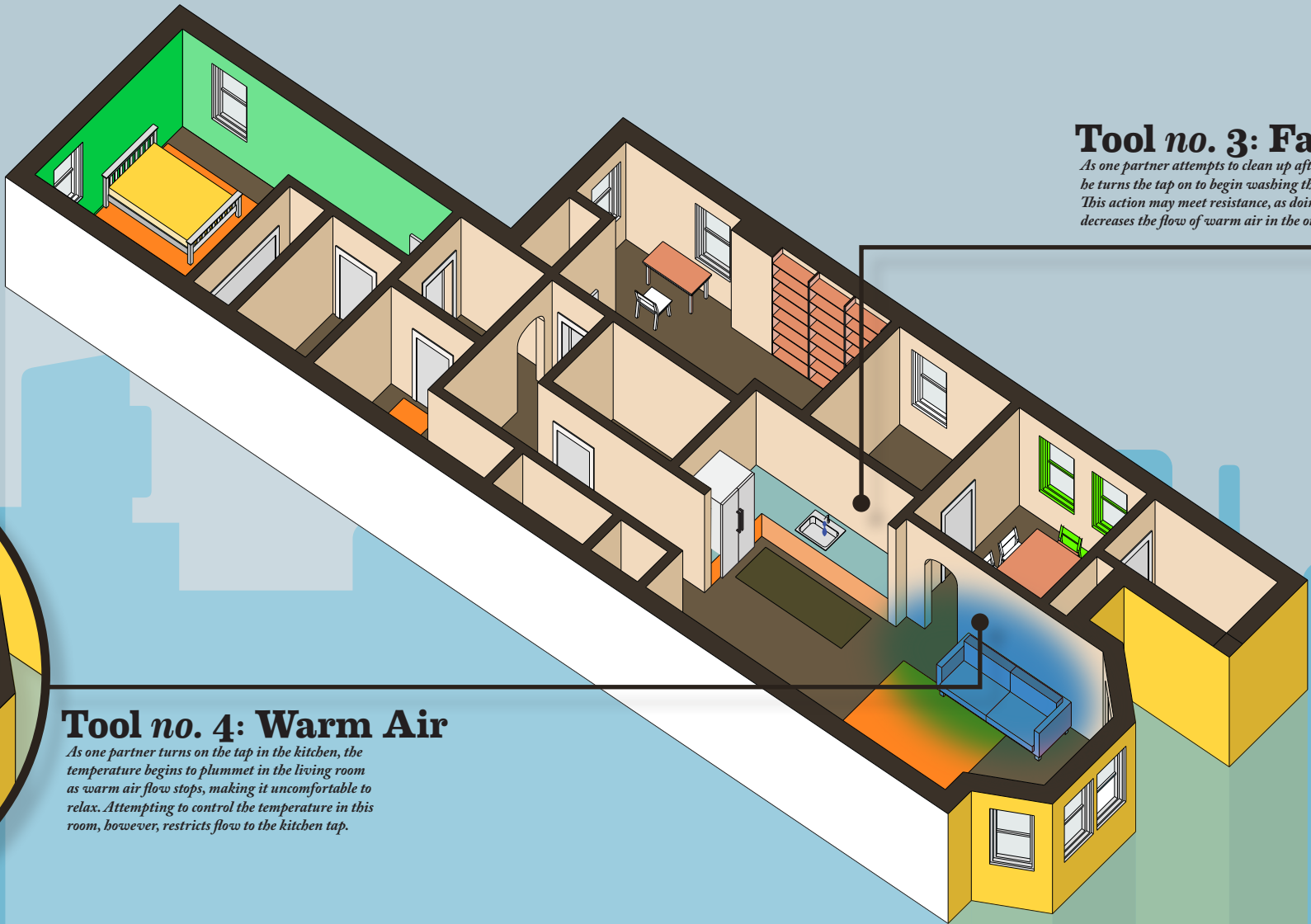


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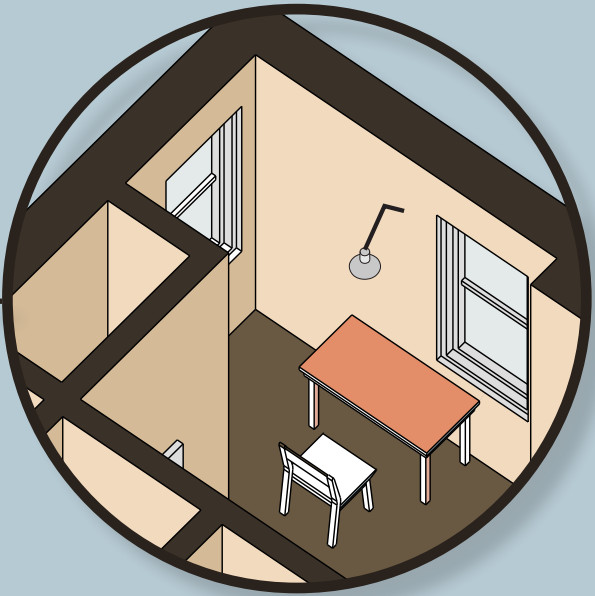
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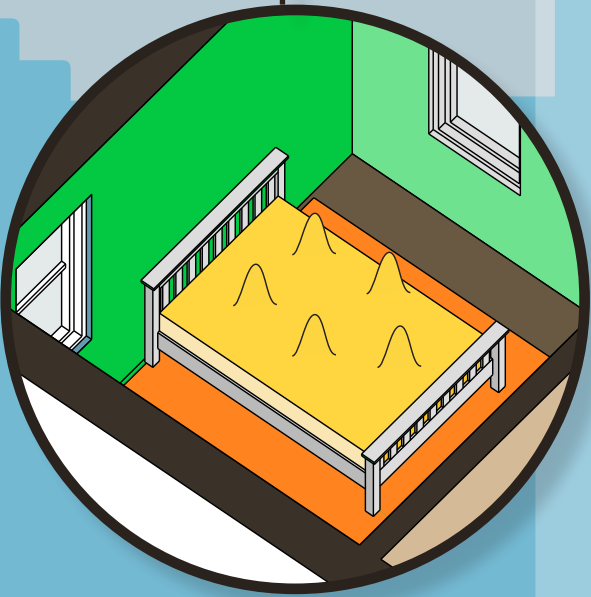
**Tool no. 6: Lamp**

*As an individual reads in one room, the other individual prepares for bed. The lamp coils up and faces the wall, limiting the amount of light in the room.*



**Tool no. 5: Bed**

*Soft spikes in the bed are uncomfortable to lay on. However, they can be depressed into the bed, so long as the user on the other side does not need light to work.*



**MAS.834 TANGIBLE INTERFACES**

PROFESSOR HIROSHI ISHII

*Yujie Hong, Dhruv Jain, & Jim Peraino*

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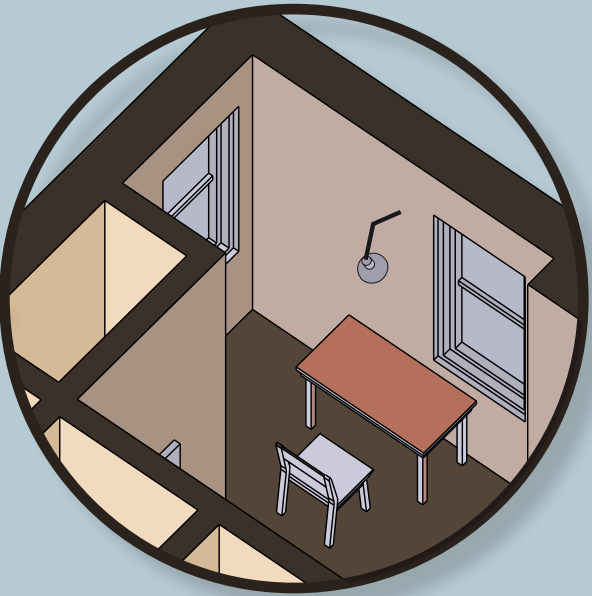
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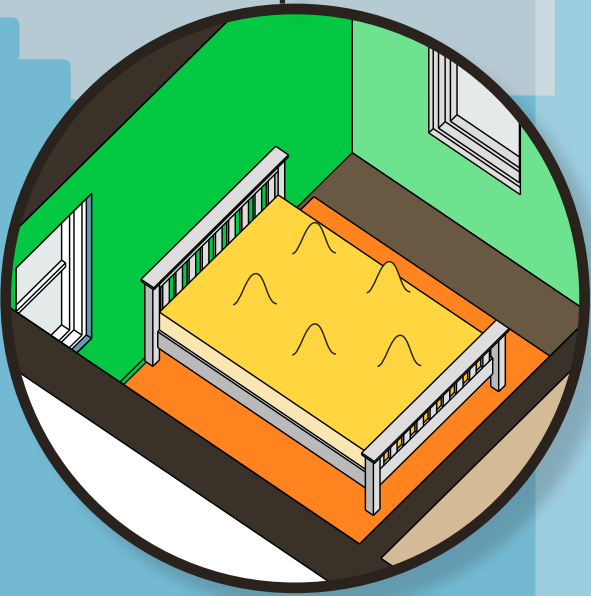
**Tool no. 6: Lamp**

*As an individual reads in one room, the other individual prepares for bed. The lamp coils up and faces the wall, limiting the amount of light in the room.*



**Tool no. 5: Bed**

*Soft spikes in the bed are uncomfortable to lay on. However, they can be depressed into the bed, so long as the user on the other side does not need light to work.*



**MAS.834 TANGIBLE INTERFACES**

PROFESSOR HIROSHI ISHII

*Yujie Hong, Dhruv Jain, & Jim Peraino*

A COLLECTION *of*  
**REMOTE NEGOTIATIONS**  
*to prompt* **IN-PERSON**  
**INTERACTION**

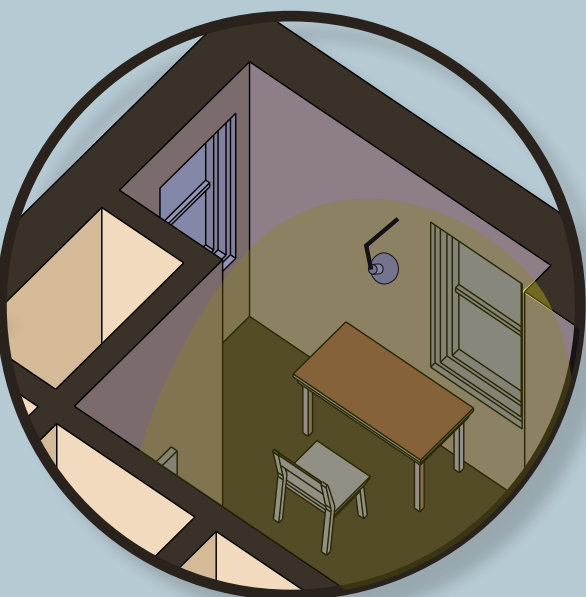
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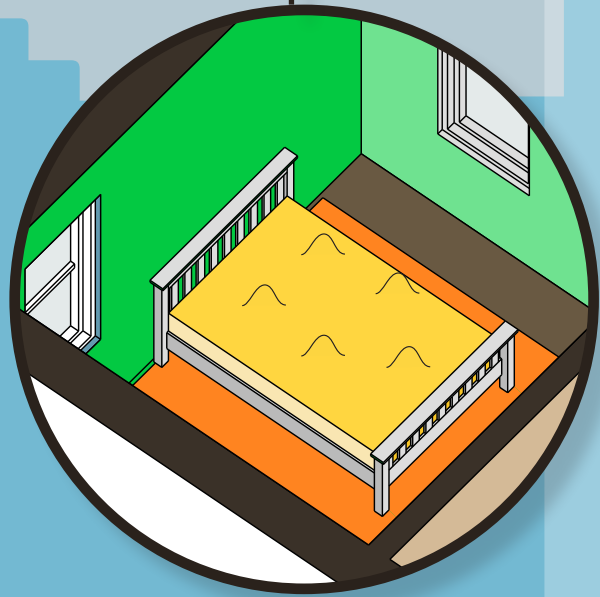
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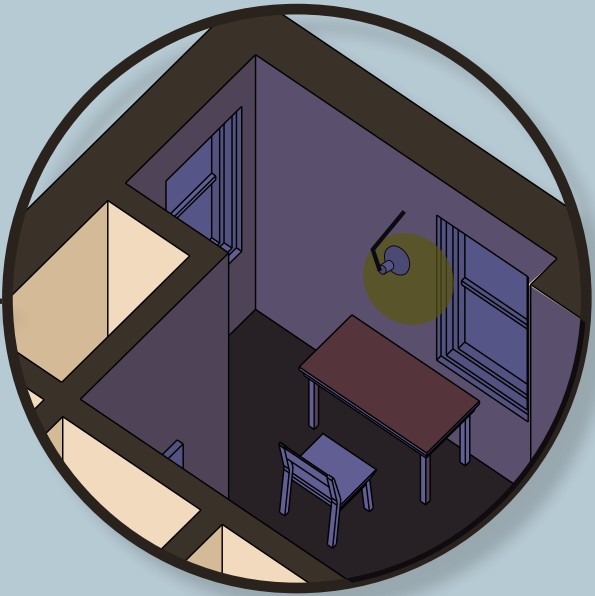
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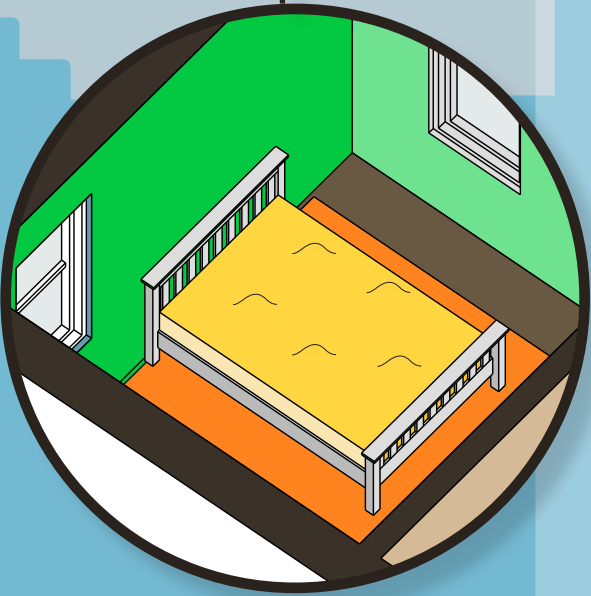
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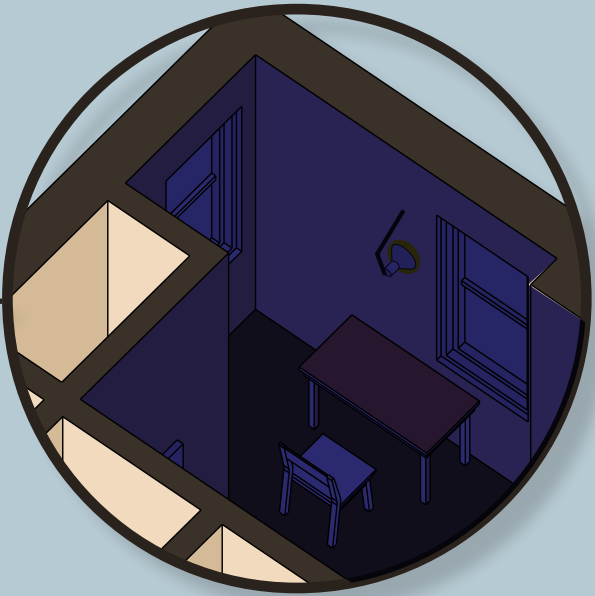
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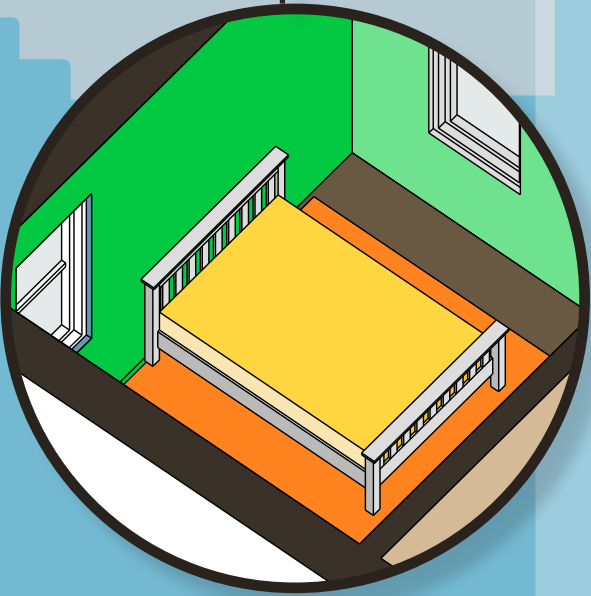
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**Light**

*As the input knob moves, three LEDs light up in sequence, corresponding to the gradient of light possible in the study.*

**Input I: Light Control**

*As the user in the study adjusts the light levels in the room, the interface they use to do so is also connected to the servo motor, affecting the level of comfort in the bed.*

**Servo**

*Both the soft spikes and the light control are connected to this servo. Lowering the spikes causes the lights to dim, while increasing the light level causes the spikes to rise.*

**Input II: Soft Spikes**

*A series of soft spikes in the bed make lying in it uncomfortable. They can be pushed down into the bed to achieve comfort, however this action causes the lights to dim in the other room.*