THE LIGHTS JOB

1. What you will do

You will connect three kinds of parts to Google Home on Dad's phone. You will give each part a name. You will make ten routines. The routines make the house wake up and go to sleep by itself. The job takes about one hour.

2. The parts

Part	What it does	App
Linkind bulb (4)	A light bulb. It can dim. It can change color.	AiDot
GHome plug (4)	A plug. It switches a thing on and off. It cannot dim.	GHome Smart
PAUTIX LED strip (1)	A light tape for under the kitchen cabinets. A plug switches it.	none

3. The names

Use these names. Type them exactly. Do not change them.

Name	Which thing	Kind
Couch lamp	the lamp in the living room	bulb
Dad's lamp	the lamp in Dad's room	bulb
Kids' lamp	the lamp in your room	bulb
Under-cabinet light	the LED strip in the kitchen	plug
Rango's lamp	the heat lamp and the UVB light on Rango's tank	plug

4. Before you start

1. Use Dad's phone. It is signed in to Dad's Google account.
2. Get the Wi-Fi name and the Wi-Fi password from Dad.
3. Connect the phone to the 2.4 GHz Wi-Fi. If the network name ends in "5G", use the other network.
4. Set Bluetooth to ON.
5. Put a bulb in each of the three lamps. Keep the fourth bulb in the box.
6. Put one plug behind Rango's tank. Put one plug under the kitchen cabinets. Keep two plugs in the box.

A. Add the bulbs (AiDot)

1. Install the AiDot app. Sign in with Dad's Gmail.
2. Switch on the couch lamp. The bulb blinks. If the bulb does not blink, switch the lamp off and on three times.
3. In AiDot, tap "+". Select the bulb. Enter the Wi-Fi password. Wait for the check mark.
4. Name the bulb **Couch lamp**. Set the room to Living room.
5. Do steps 2 to 4 for **Dad's lamp** (room: Dad's room) and for **Kids' lamp** (room: Kids' room).
6. Test: move the brightness slider for each bulb. Each bulb must change.

B. Add the plugs (GHome Smart)

1. Install the GHome Smart app. Sign in with Dad's Gmail.
2. Put the first plug in the wall socket behind Rango's tank. The plug light blinks fast. If it does not blink, hold the button for 5 seconds.
3. In GHome Smart, tap "+". Select the plug. Enter the Wi-Fi password. Wait for the check mark.
4. Name the plug **Rango's lamp**. Put the power strip of Rango's lamp into this plug.
5. Put the second plug under the cabinets. When it blinks fast, do step 3. Name it **Under-cabinet light**. Use it for the LED strip in C.
6. Test: tap each plug on and off in the app. You hear a click.

C. Connect the strip

1. Connect the strip to the controller. Connect the controller to the power brick. Put the power brick into the Under-cabinet light plug.
2. If the box has a remote: set the strip to a warm color and half brightness with the remote. The controller keeps this setting.
3. If the leaflet shows a Wi-Fi logo: stop. Tell Dad.

D. Link to Google Home

1. Open the Google Home app. Tap "+". Tap Set up device. Tap Works with Google Home.
2. Search AiDot. Sign in with Dad's Gmail. The three bulbs appear. Put each bulb in its room.
3. Search GHome Smart. Sign in with Dad's Gmail. The two plugs appear. Put each plug in its room.
4. Test: say "Hey Google, set Dad's lamp to 1 percent." The lamp goes very dim. Say "Hey Google, turn on Rango's lamp." The plug clicks.

E. Make the routines

A routine has a starter and actions. The starter is the time. The actions are what the lamps do. To make one: open Google Home. Tap Automations. Tap "+". Tap Household. For a lamp, tap Adjust Home devices. For a later step, tap the step, then tap Delay. Make these ten. Use these names.

Routine	Starter	Actions
Couch dawn	6:15 AM, every day	Couch lamp on, 30%, warm white. Under-cabinet light on. Delay 15 min: Couch lamp 100%, daylight.
Dad's dawn	6:30 AM, every day	Dad's lamp on, 1%, warm white. Delay 10 min: 10%. Delay 10 min: 30%, soft white. Delay 10 min: 60%, daylight. Delay 10 min: 100%, daylight.
Kids' dawn	6:45 AM, every day	Kids' lamp on, 1%, warm white. Then the same five steps as Dad's dawn.
Morning off	8:30 AM, every day	Couch lamp, Dad's lamp, Kids' lamp off. Under-cabinet light off.
Rango's day	7:00 AM, every day	Rango's lamp on.
Rango's night	7:00 PM, every day	Rango's lamp off. Dad sets 8:00 PM on March 1 and 7:00 PM on November 1.
Sunset	Sunset, every day	Couch lamp, Dad's lamp, Kids' lamp on, 60%, warm white. Under-cabinet light on.
Kids' bedtime	8:00 PM, every day	Kids' lamp 10%, warm white. Delay 30 min: Kids' lamp off.
Wind down	9:30 PM, every day	Couch lamp and Dad's lamp 20%, warm white. Under-cabinet light off.
Lights out	10:30 PM, every day	Couch lamp, Dad's lamp, Kids' lamp off. Under-cabinet light off.

F. Check

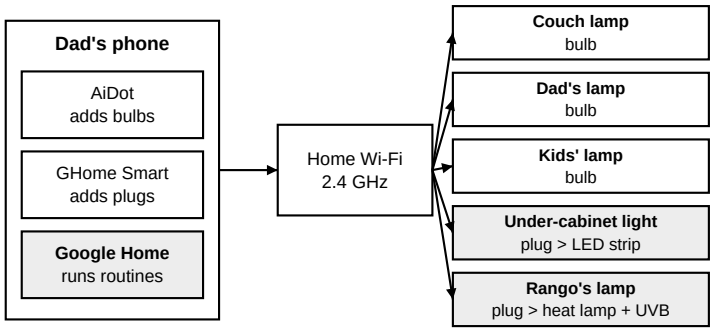
1. Wait for the next morning. Do not change the phone clock.
2. 6:15: the couch lamp comes on, warm and dim. Then it gets brighter.
3. 6:30: Dad's lamp comes on, almost off. 6:45: your lamp comes on, almost off. Both get brighter slowly.
4. 7:00: Rango's lamp clicks on.
5. If a lamp did nothing: open the routine. Tap Run. Check the lamp name. It must match this sheet.
6. Tell Dad what worked and what did not work.

Words

Routine = a list of actions that Google Home does at a set time. **Starter** = the time or event that starts a routine. **Delay** = a wait before the next action. **2.4 GHz** = the slower Wi-Fi band that these parts use. **Warm white** = the orange-white setting. **Daylight** = the blue-white setting.

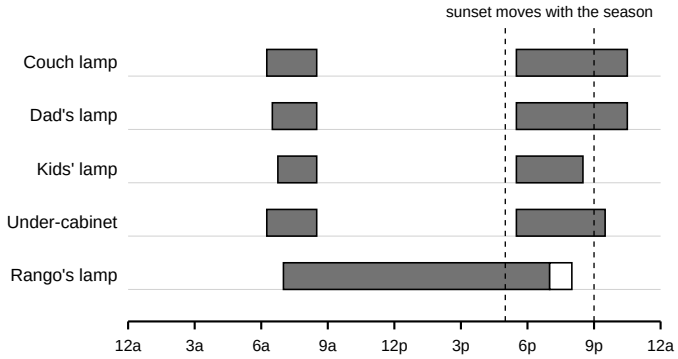
THE LIGHTS JOB

1 · How the parts connect



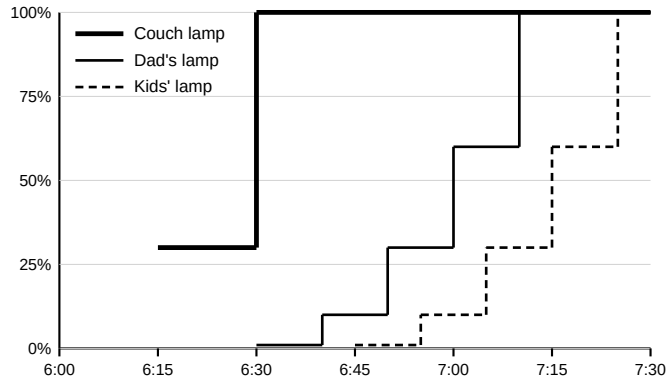
The apps add the parts once. Google Home keeps the routines. At each start time it sends the order over Wi-Fi. A bulb can dim and change color. A plug can only switch.

2 · One day



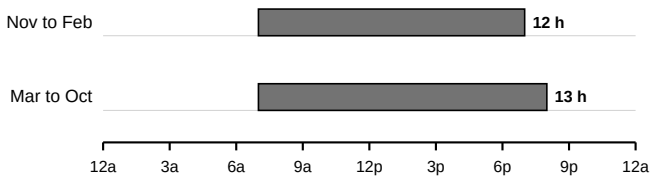
Dark bar = on. The evening bars start at sunset, so they move through the year. The white box on Rango's bar is the extra summer hour.

3 · The dawn ramp



The couch lamp starts at 30% at 6:15 and reaches 100% at 6:30. Dad's starts at 1% at 6:30. Yours starts at 1% at 6:45. Both step up every 10 minutes. All three go off at 8:30.

4 · Rango's year



Dad changes the off time twice a year:

March 1: Rango's night to 8:00 PM. November 1: Rango's night to 7:00 PM.

A bearded dragon wants a longer day in summer and a shorter day in winter, like the sun. The plug switches his lamp on full and off full. It cannot dim. The kids' lamp at 6:45 is his slow dawn. The warm sunset lamp is his slow dusk. At night his tank is dark. No colored bulb.

5 · If a lamp does nothing

