

PI Web Control

The screenshot shows the PI Web Control interface. On the left is a sidebar with a menu icon and a Raspberry Pi logo. Below them is a 'Groups' section with a list of items: Theater (highlighted in red), Office, Studio, Entertainment, Portable, and Lights. Under 'Lights' are several items: Screen left, Screen right, DeskVideo, StudioLeft, StudioRight, Screen white, OfficeWhite, Closet, Desk, and Portable. The main area is titled 'PI Web Control Version 1.0.0' and contains a table with columns: Group, ID, Type, Class, Bright, Any on, All on, Updt, and Lights. The 'Theater' group is selected, showing a table with one row: ID 1, Type Room, Class Office, Bright 100, Any on true, All on true, Updt (blue refresh icon), and Lights (green on icon). Below this is another table with columns: Light, ID, Type, Bright, Hue, Updt, and Light. It lists 17 individual lights with their respective IDs, types, brightness, hue, and control buttons.

Group	ID	Type	Class	Bright	Any on	All on	Updt	Lights
Theater	1	Room	Office	100	true	true		

Light	ID	Type	Bright	Hue	Updt	Light
Screen left	1	Color temperature light	100			
Screen right	3	Color temperature light	100			
DeskVideo	6	Extended color light	127	45941		
StudioLeft	7	Extended color light	3	45821		
StudioRight	10	Extended color light	3	45821		
Screen white	11	Dimmable light	100			
OfficeWhite	12	Dimmable light	178			
Closet	15	Dimmable light	178			
Desk	16	Dimmable light	178			
Portable	17	Dimmable light	254			

PI Web Control is a web app for controlling IOT devices from a Raspberry PI. Strictly speaking it should run on any computer but the PI is a convenient choice as its low power and also has access to additional sensors and devices directly connected. Initially we target the Philips HUE as it is a typical hub and i actually have one. Plans are to include additional hubs in the future.

Installation instructions are in the README on the github repo.
When you connect to your PI with your browser, you should see the screen above.

The left side shows a list of your groups and lights.

By clicking on a group, it shows the group attributes in the top line of the display as well as highlighting the lights in that group. The group changes to red on the side to show which group is selected.

You can click on a light but no behaviour has been wired to it yet other than the color change.

The blue button on the right labeled “Updt” allows you to update group attributes without changing the state of the group. Currently only the brightness is supported.

The other button labeled “Lights” shows the state of the group lights and changes to green when the group is on. Clicking the button will toggle the state.

Similarly the blue and green/gray buttons perform the same actions on an individual light. The light state is not immediately updated as no feedback is provided from the hub. Refreshing the screen will update the light stated.