

Tile Builder Thermostat Help

Revised 6/18/24

Tile Builder Thermostat

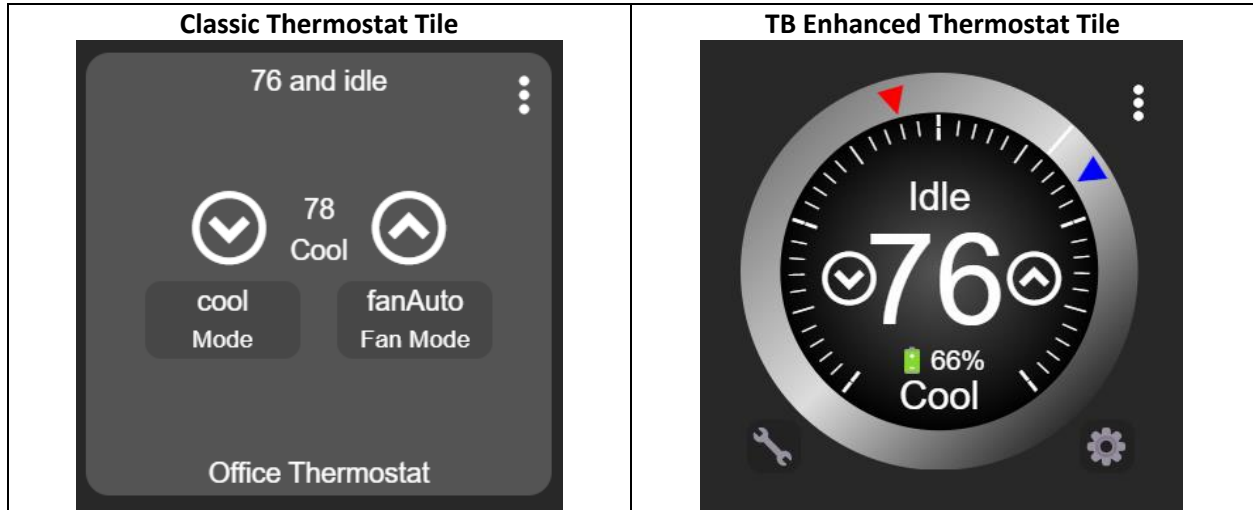
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Tile Builder Thermostat

Introduction

The classic Hubitat Dashboard is functional and customizable, but rather dated in appearance. Tile Builder Thermostat allows you to add an attractive face to the classic Thermostat tile and maintain all of the same functionality.



Requirements

You must have the Tile Builder Parent version 1.5.1 or later installed. Thermostat is an optional module and you must choose to **Modify** the Tile Builder installation to have the code added as shown below.

Modify a Package

Items below that are checked are currently installed. Those that are not checked are currently **not** installed.

Select the apps to install/uninstall

Tile Builder - Activity Monitor, Tile Builder - Attribute Monitor, Tile Builder - Multi Attribute Monitor, Tile Builder - Rooms, Tile Builder - Grid

☒ Tile Builder - Activity Monitor

☒ Tile Builder - Attribute Monitor

☒ Tile Builder - Multi Attribute Monitor

☒ Tile Builder - Rooms

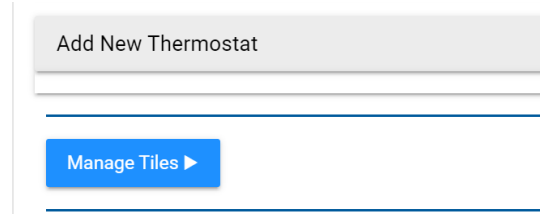
☒ Tile Builder - Grid

☐ Tile Builder - Thermostat

Tile Builder Thermostat

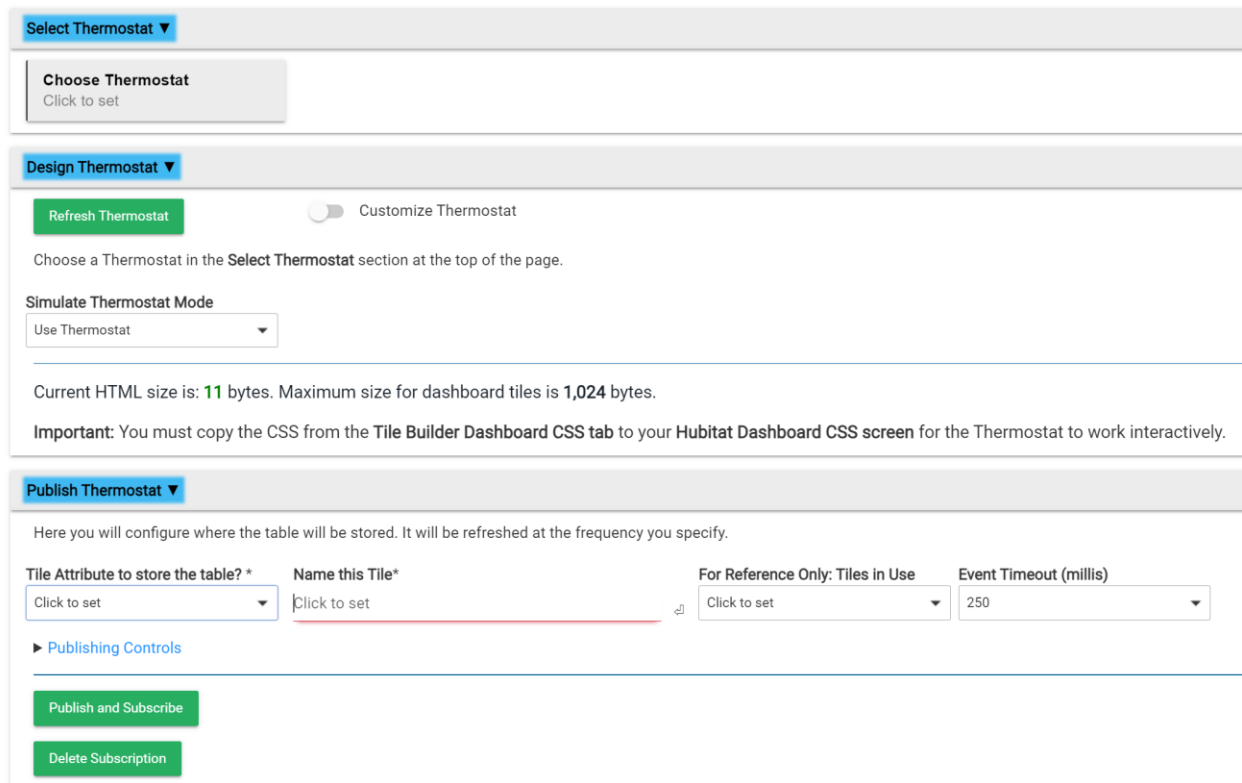
Creating a Tile Builder Thermostat

To create a new Thermostat launch Tile Builder and select **Add New Thermostat**



A screenshot of a web interface showing a button labeled "Add New Thermostat" in a light gray box. Below it is a blue button labeled "Manage Tiles" with a right-pointing arrow.

The main screen will launch and look like this.



A screenshot of the main configuration screen for a Tile Builder Thermostat. The screen is divided into three main sections: "Select Thermostat", "Design Thermostat", and "Publish Thermostat".

- Select Thermostat:** Contains a button labeled "Choose Thermostat" with the text "Click to set" below it.
- Design Thermostat:** Contains a "Refresh Thermostat" button, a toggle switch for "Customize Thermostat", and a "Simulate Thermostat Mode" dropdown menu set to "Use Thermostat". Below this, it shows "Current HTML size is: 11 bytes. Maximum size for dashboard tiles is 1,024 bytes." and an "Important" note: "You must copy the CSS from the Tile Builder Dashboard CSS tab to your Hubitat Dashboard CSS screen for the Thermostat to work interactively."
- Publish Thermostat:** Contains a heading "Here you will configure where the table will be stored. It will be refreshed at the frequency you specify." followed by four fields: "Tile Attribute to store the table? *" (dropdown), "Name this Tile*" (text input), "For Reference Only: Tiles in Use" (dropdown), and "Event Timeout (millis)" (dropdown). Below these fields is a "Publishing Controls" section with "Publish and Subscribe" and "Delete Subscription" buttons.

Tile Builder Thermostat

The configuration process is quite straightforward.

1) Select a Thermostat

Select Thermostat ▼

Choose Thermostat
Office Thermostat

2) Publish the Thermostat

Publish Thermostat ▼

Here you will configure where the table will be stored. It will be refreshed at the frequency you specify.

Tile Attribute to store the table? *

Name this Tile*

For Refr

tile5 ▼

Office Thermostat - Tile 5

Click to

► Publishing Controls

Publish and Subscribe

3) Copy the CSS from the **Dashboard CSS** tab which becomes visible when you click enable the **Customize Thermostat** control.

General	Display	Heating	Cooling	Idle	Other Modes	Dashboard CSS
---------	---------	---------	---------	------	-------------	---------------

Tile Builder CSS: This is the CSS used by Tile Builder Thermostat. You must copy these lines to your Dashboard CSS in order for the Dashboard to work correctly. Copy them exactly as shown here, including the comment lines and then edit to your needs. Using the Condense CSS option removes most comments.

Condense CSS

True ▼

```
/* This CSS generated by Tile Builder Thermostat version: v1.0.0 (6/17/24 @ 08:24 PM) */
:root {--BW:0px;}
.tile-title {visibility: hidden; display: none;}
[class*=attribute][background-color:rgba(128,128,128,0); outline:var(--BW) solid white]
[class*=thermostat][background-color:rgba(128,128,128,0) !important; outline:var(--BW) dashed purple; z-index:99 !important]
.thermostat div.self-start {color:rgba(128,128,128,0); outline:var(--BW) dotted red;}
[class*=he-circle-up][position:absolute; outline:var(--BW) dotted orange; font-size:25px !important; margin-left: 15px; margin-top:8px; padding:0px]
[class*=he-circle-down][position:absolute; outline:var(--BW) dotted orange; font-size:25px !important; margin-left:-46px; margin-top:8px; padding:0px]
.thermostat div.inline-block {color:rgba(128,128,128,0); outline:var(--BW) dashed yellow;}
.thermostat div.w-full.my-1 {color:rgba(128,128,128,0); outline:var(--BW) dotted blue; position:absolute !important; left:-60px; width:320px; top:161px}
.thermostat div.w-full.my-1>div.inline-block {color:rgba(128,128,128,0); width:25px; height:25px; outline:var(--BW) dotted green; display: inline-block; vertical-align: middle; margin-left:53px; margin-right:60px;z-index:100}
.thermostat div.absolute.bottom-0.text-center.w-full {color:rgba(128,128,128,0); outline:var(--BW) dotted violet; z-index:-1}
```

4) Close the Tile Builder Thermostat screen by clicking Done.

5) Authorize the Dashboard to use the Thermostat and the Tile Builder Storage Device.

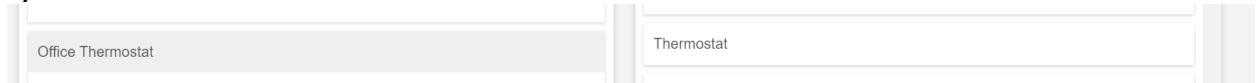
Tile Builder Thermostat

6) Add the CSS to the Dashboard by opening the Dashboard, selecting the **Gear Icon**, click on **Advanced**, then **CSS** and paste the CSS you copied from Tile Builder Thermostat into here. It should look like this.

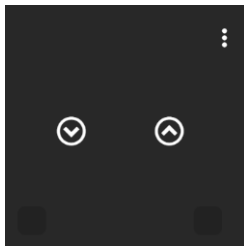
```
Layout Devices CSS Debug
Grid Options Templates Advanced

/* This CSS generated by Tile Builder Thermostat version: v1.0.0 (6/17/24 @ 08:24 PM) */
:root {--Bk:0px;}
.tile-title {visibility: hidden; display: none;}
[class*="attribute"] {background-color:rgba(128,128,0); outline:var(--Bk) solid white}
[class*="thermostat"] {background-color:rgba(128,128,0) !important; outline:var(--Bk) dashed purple; z-index:99 !important}
.thermostat div.self-start {color:rgba(128,128,0); outline:var(--Bk) dotted red;}
[class*="he-circle-up"] {position:absolute; outline:var(--Bk) dotted orange; font-size:25px !important; margin-left: 15px; margin-top:8px; padding:0px}
[class*="he-circle-down"] {position:absolute; outline:var(--Bk) dotted orange; font-size:25px !important; margin-left:-46px; margin-top:8px; padding:0px}
.thermostat div.inline-block {color:rgba(128,128,0); outline:var(--Bk) dashed yellow;}
.thermostat div.w-full.my-1 {color:rgba(128,128,0); outline:var(--Bk) dotted blue; position:absolute !important; left:-60px; width:120px; top:161px}
.thermostat div.w-full.my-1 div.inline-block {color:rgba(128,128,0); width:25px; height:25px; outline:var(--Bk) dotted green; display: inline-block; vertical-align: middle; margin-left:53px; margin-right:60px;z-index:100}
.thermostat div.absolute.bottom-0.text-center.w-full {color:rgba(128,128,0); outline:var(--Bk) dotted violet; z-index:-1}
/* End of Tile Builder Thermostat CSS */
```

7) Add Thermostat Tile



It will look like this:



8) Add Tile Builder Thermostat Tile



It will look like this:



9) Relocate the tiles using the tile positioning menu so they occupy the same space.

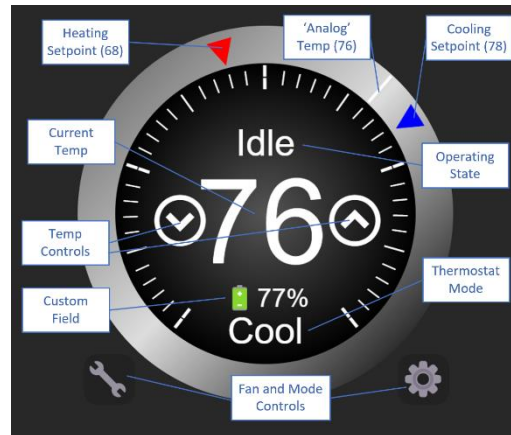
10) Finished, your result should look something like this.



Tile Builder Thermostat

Understanding the Display



The diagram below shows the various attributes of the display and their significance.






This diagram shows the display in Fahrenheit but Celsius is also supported.

Customizing Your Thermostat

As with all Tile Builder modules there is a significant level of customization available should you choose to do that. In this section I will just focus on the less obvious settings.

General Tab	Default Text Color: Affects the color of ALL text on the display including the gauge tick marks.
	Temperature Units: The default unit is Fahrenheit, but can be changed to Celsius. When using Fahrenheit, the vertical position marks 70 degrees and the gauge operates in the range 50 - 90 with marks at each of the 1, 5 and 10 degrees. When using Celsius, the vertical position marks 20 degrees and the gauge operates in the range 0 - 40 with marks at each of the 1, 5 and 10 degrees.
Display Tab	Thermostat Skin: This is the color\gradient of the outer circle. Options are: Black, Copper, Gold, Rose and Silver. Shown is Rose with Mark Ring setpoints. 
	Display Heating, Cooling Setpoints: The location and the display style of the Heating and Cooling Setpoints can be modified. Shown is Mark and Temp followed by Mark . 

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	<p>Display Mode and Fan Controls: By default, these are visible but can be hidden if desired.</p> 
	<p>Display Additional Attribute: Allows you to display any additional attribute from your Thermostat in the gap below the temperature. For example, my thermostat has a battery backup.</p> <p> Display Additional Attribute: <input type="text" value="battery"/> Prepend Text: <input type="text" value=""/> Append Text: <input type="text" value=""/> Attribute Text Size: <input type="text" value="Small"/> </p> <p>By prepending and appending text, the result looks like this.</p>  <p>You can also just enter some static text by leaving the displayed attribute at None and entering some text into the dialog boxes.</p> <p> Display Additional Attribute: <input type="text" value="None"/> Prepend Text: <input type="text" value="Office"/> Append Text: <input type="text" value=""/> Attribute Text Size: <input type="text" value="Small"/> </p> 
Heating, Cooling, Idle, Other Modes	<p>Allows you to configure the appearance of the Thermostat background when the Thermostat changes modes.</p>

Tile Builder Thermostat

Testing Thermostat Modes

Rather than force your Thermostat mode to change you can preview the various mode settings by selecting a simulated mode.

Simulate Thermostat Mode

Use Thermostat

No selection

Use Thermostat

Simulate Cool - Cooling

Simulate Heat - Heating

Simulate Any - Idle

Simulate Auto - Heating


Simulate Off

Simulate Emergency Heat - Heating

Fahrenheit Calibration

Celsius Calibration


Simulation Examples



Heating
70
Auto

Simulate Thermostat Mode


Simulate Auto - Heating



Cooling
70
Cool

Simulate Thermostat Mode

Simulate Cool - Cooling



Off
70
Off

Simulate Thermostat Mode

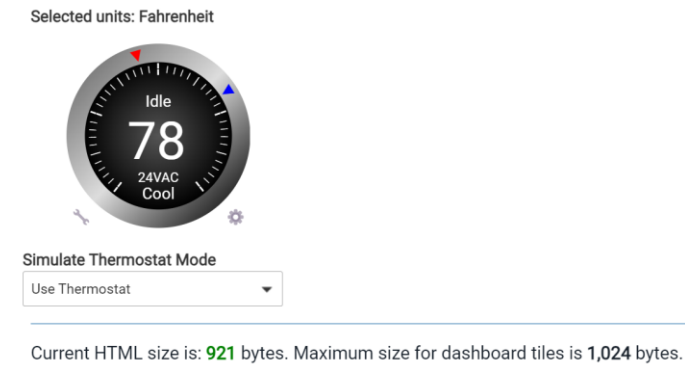
Simulate Off

When you are done be sure to set the simulation back to **Use Thermostat** so that you are getting live data.

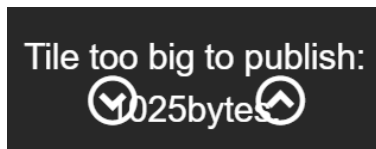
Tile Builder Thermostat

Managing Tile Size

Tile Builder Thermostat requires that the size of your configuration is less than 1,024 bytes and always display the current size of your configuration on screen. This ensures that your Thermostat tiles will work within the Hubitat App interface regardless of whether you are connecting locally or via the internet.



If your tile exceeds 1,024 bytes it will appear like this on the dashboard.



Troubleshooting

Coming Soon