Tile Builder
Thermostat Help

Revised 6/18/24

Tile Builder Thermostat
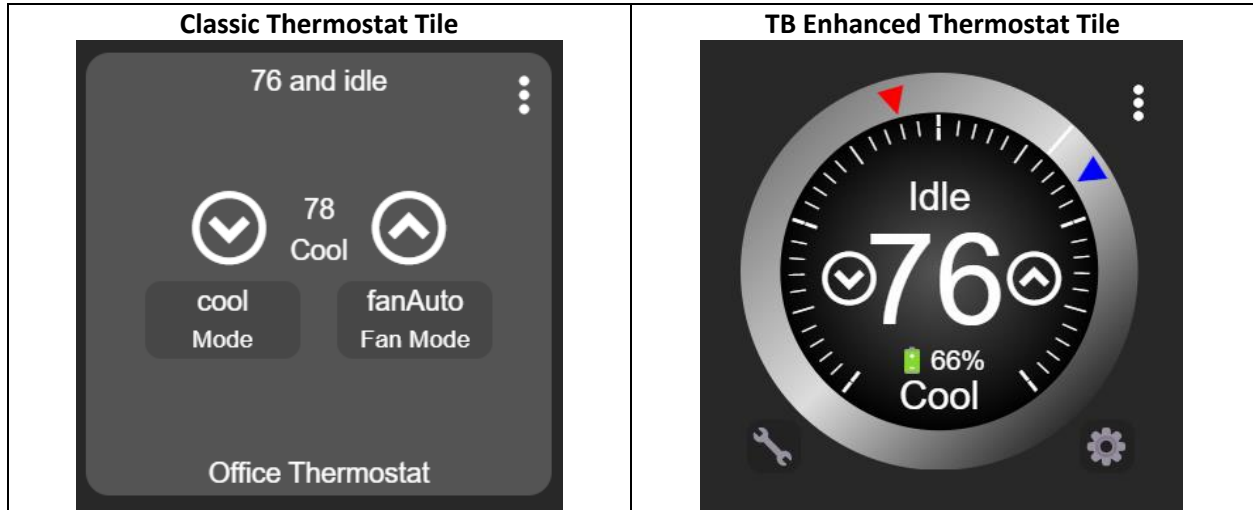
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Introduction

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.

Classic Thermostat Tile	TB Enhanced Thermostat Tile

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.
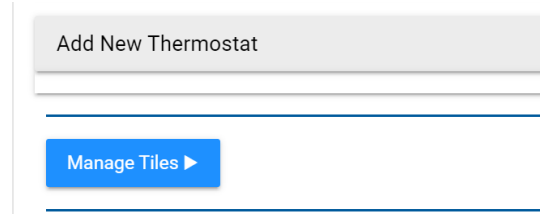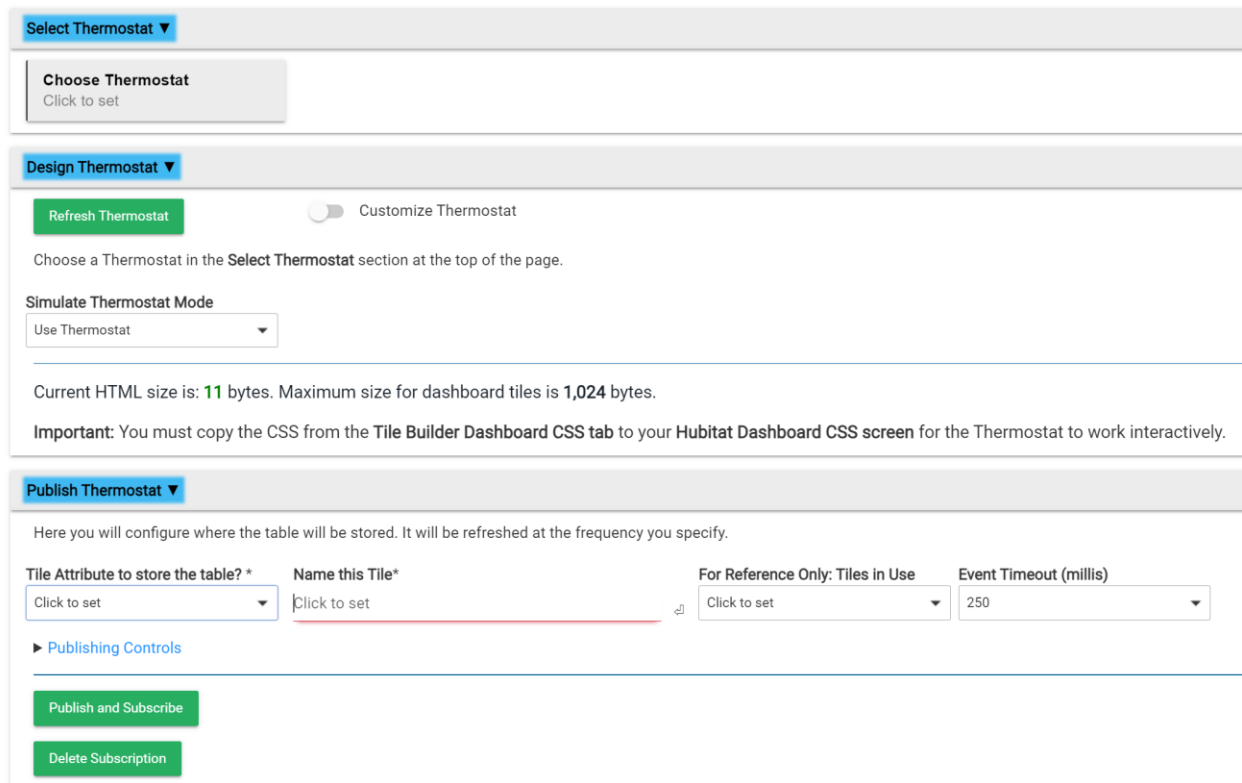
Creating a Tile Builder Thermostat

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

Add New Thermostat

Manage Tiles ▶

The main screen will launch and look like this.

Select Thermostat ▼

Choose Thermostat
Click to set

Design Thermostat ▼

Refresh Thermostat   ⬤ Customize Thermostat

Choose a Thermostat in the **Select Thermostat** section at the top of the page.

Simulate Thermostat Mode

Use Thermostat

Current HTML size is: **11** bytes. Maximum size for dashboard tiles is **1,024** bytes.

Important: 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 ▼

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 Reference Only: Tiles in Use	Event Timeout (millis)
Click to set	Click to set	Click to set	250

▶ Publishing Controls

Publish and Subscribe

Delete Subscription

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? *
tile5

Name this Tile*
Office Thermostat - Tile 5

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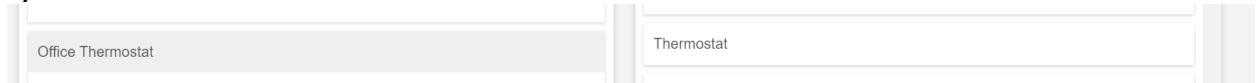
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6) Add the CSS to the Dashboard by opening the Dashboard, selecting the **Gear Icon,** click on **Advanced**, then **CSS** and paste the CSS you copied from Tile Builder Thermostat into here. It should look like this.
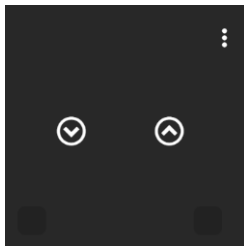

7) Add Thermostat Tile

It will look like this:

8) Add Tile Builder Thermostat Tile

It will look like this:

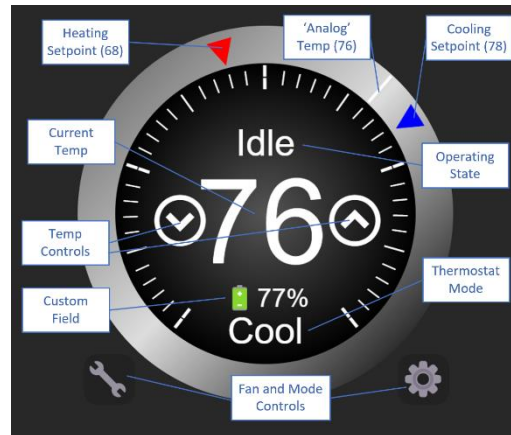9) **Relocate the tiles** using the tile positioning menu so they occupy the same space.

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.**

	Display Mode and Fan Controls: By default, these are visible but can be hidden if desired.
	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. By prepending and appending text, the result looks like this. You can also just enter some static text by leaving the displayed attribute at None and entering some text into the dialog boxes.
Heating, Cooling, Idle, Other Modes	Allows you to configure the appearance of the Thermostat background when the Thermostat changes modes.

Testing Thermostat Modes

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

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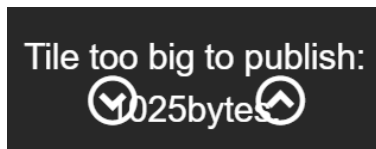
Managing Tile Size

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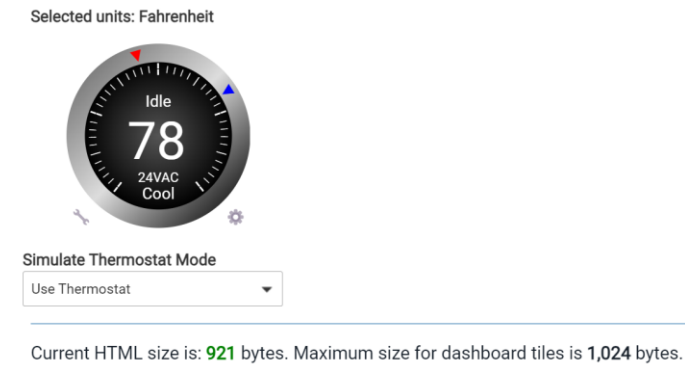
If your tile exceeds 1,024 bytes it will appear like this on the dashboard.

Troubleshooting

Coming Soon