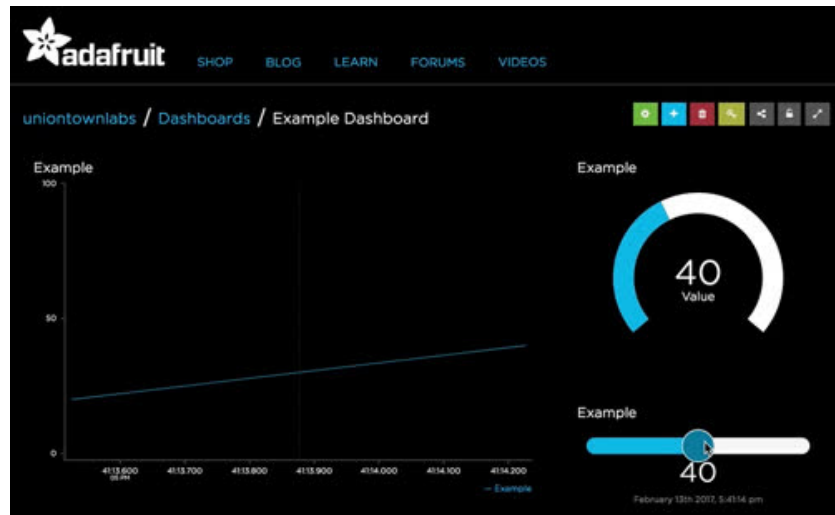


□

Adafruit IO Basics: Dashboards

Created by Todd Treece

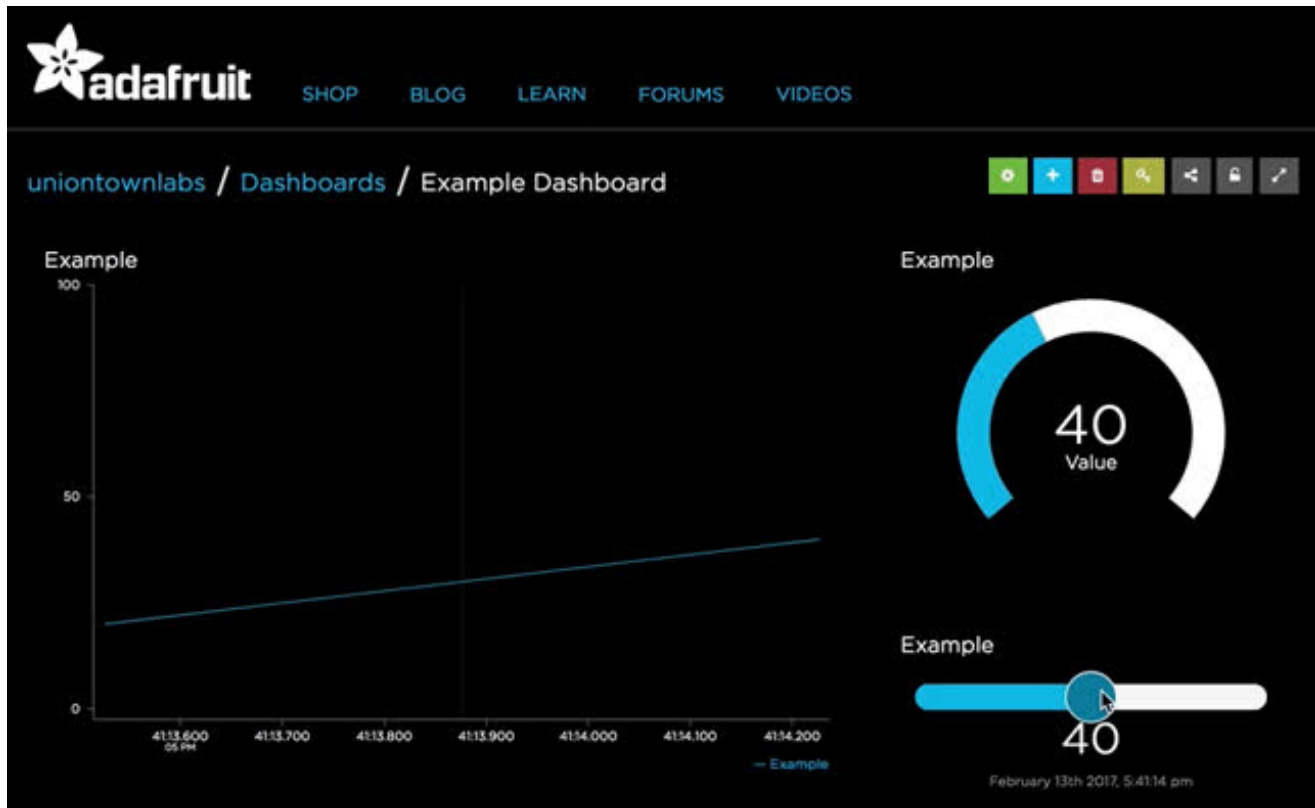


Last updated on 2017-02-13 11:12:42 PM UTC

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Overview

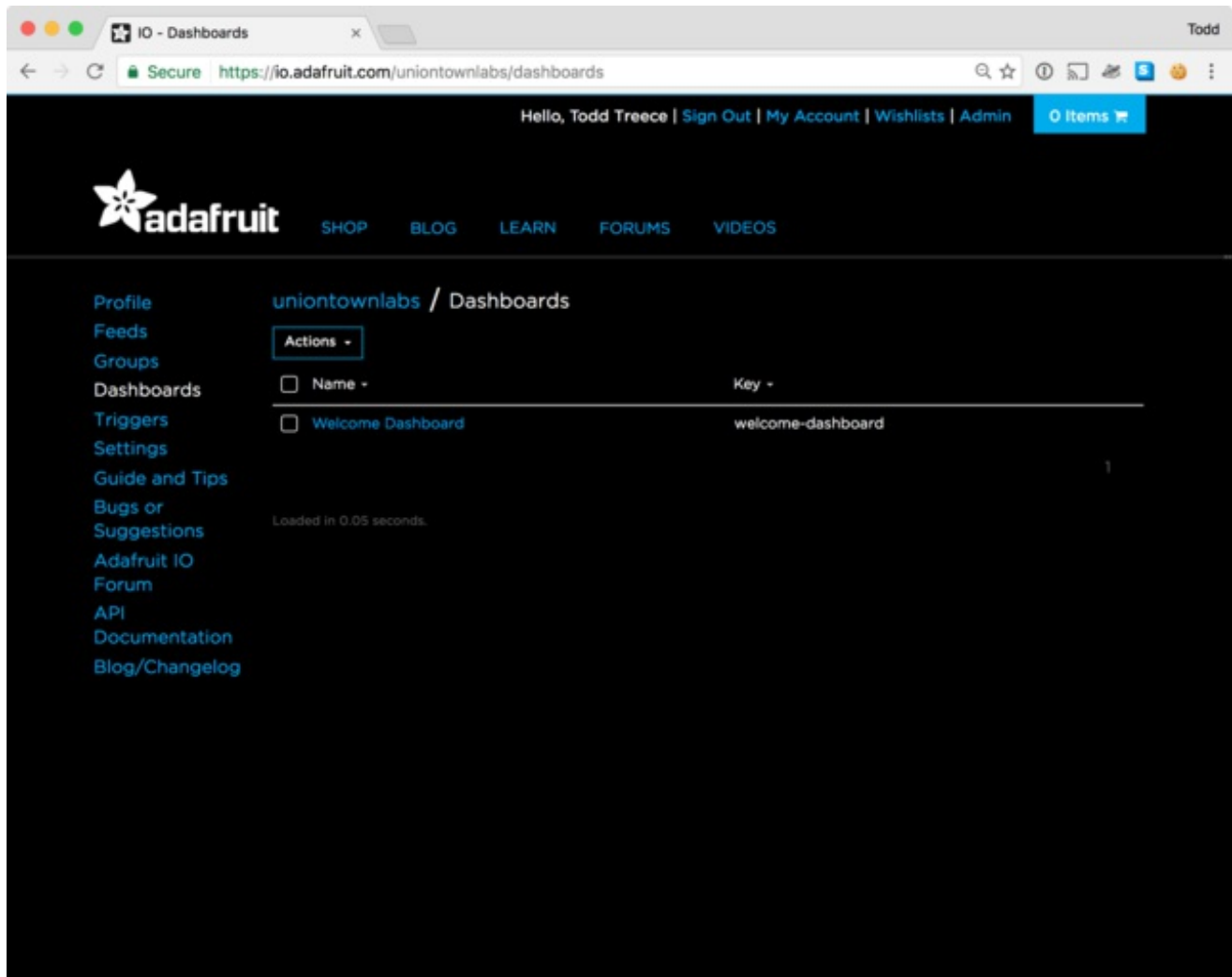


Dashboards allow you to visualize data and control Adafruit IO connected projects from any modern web browser. Widgets such as charts, sliders, and buttons are available to help you quickly get your IoT project up and running without the need for any custom code.

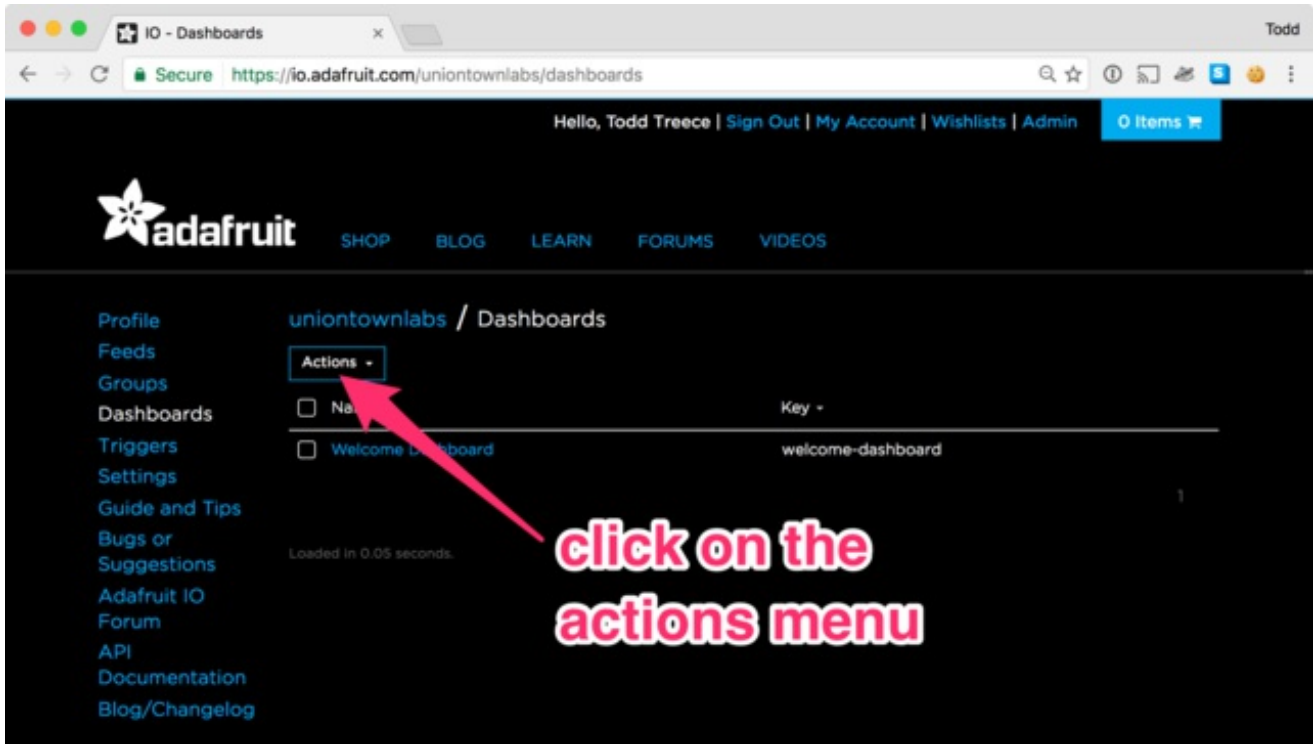
If you are new to Adafruit IO, you may want to start with the [Adafruit IO Feeds guide](http://adafru.it/ioA) (<http://adafru.it/ioA>) before you continue with this guide. If you are comfortable with feeds, then you are ready to create your first dashboard.

Creating a Dashboard

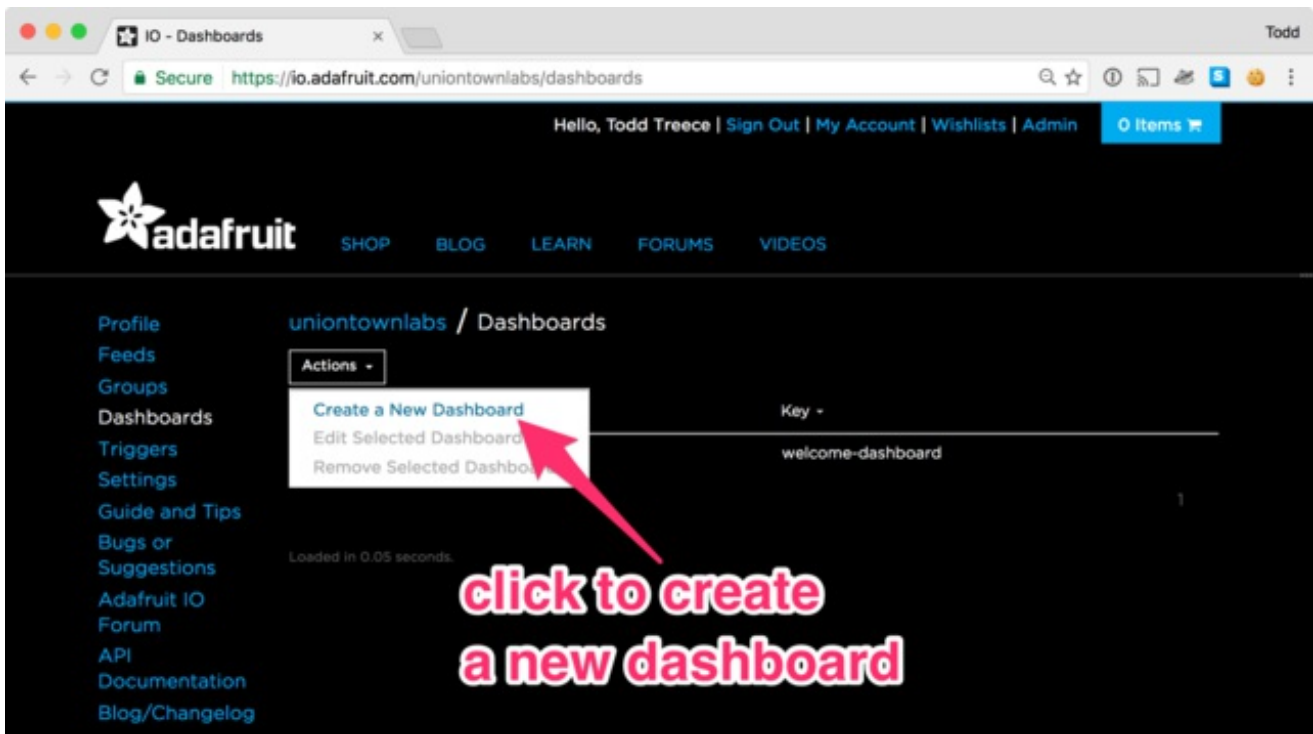
When you login to your io.adafruit.com (<http://adafru.it/eZ8>) account, you will be redirected to your list of dashboards. It will look like the page seen below.



Your list of dashboards will only have the *Welcome Dashboard* when it is first loaded. You can start the dashboard creation process by clicking the **Actions** menu on the upper left hand side of the screen.



Next, select **Create a New Dashboard** from the dropdown menu.



You can then enter the name and description of your new dashboard, and click the **Create** button once you are finished.

Create a new Dashboard ✕

Name

Description

A dashboard for my new project.

Cancel Create

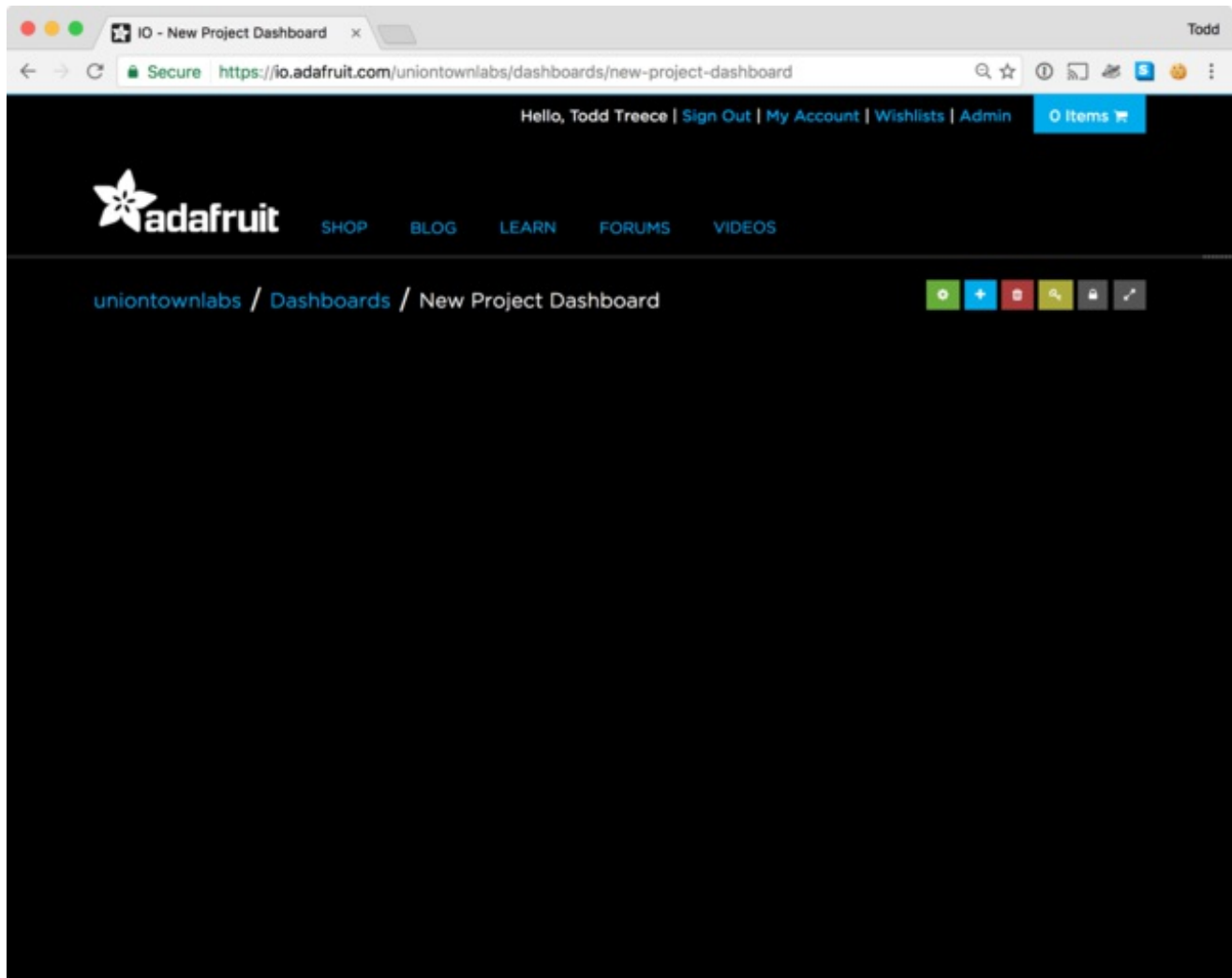
Once your dashboard has been created, click on the name of your new dashboard to load it.

The screenshot shows the Adafruit IO web interface. The user is logged in as 'Todd Treece'. The page title is 'uniontownlabs / Dashboards'. A table lists the dashboards:

<input type="checkbox"/>	Name -	Key -
<input type="checkbox"/>	New Project Dashboard	new-project-dashboard
<input type="checkbox"/>	Welcome Dashboard	welcome-dashboard

A red arrow points to the 'New Project Dashboard' row. Below the arrow, the text 'click on your new dashboard' is written in a stylized, pink-outlined font.

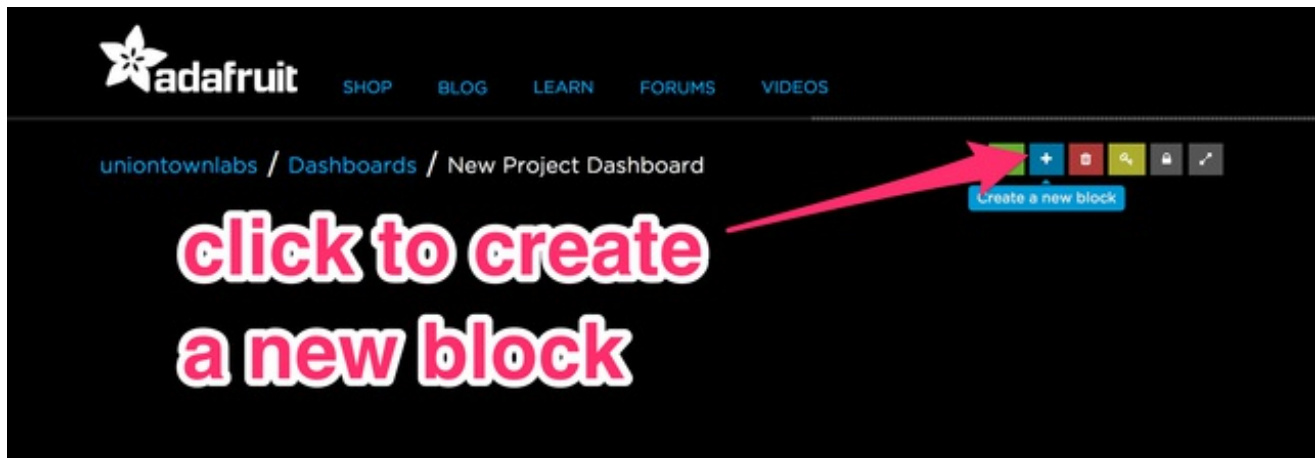
You should now see your new blank dashboard.



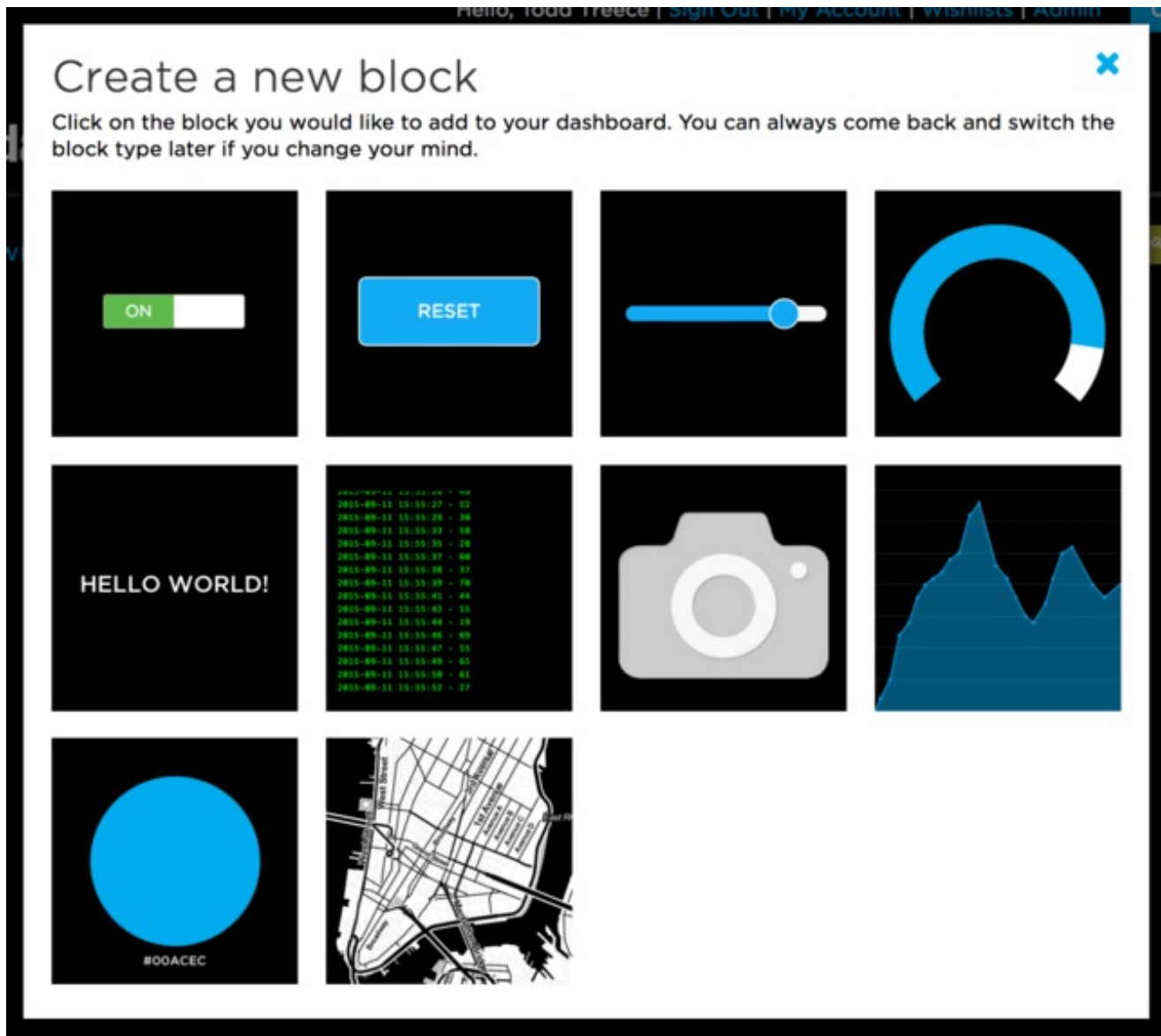
Next, we will look at adding blocks to the new dashboard.

Adding Blocks

Blocks are widgets that you can add to your dashboard. There are some blocks that can be used as outputs, and some that can be used as inputs. To add a new block, you can click the + (plus) button on the upper right hand side of the dashboard.



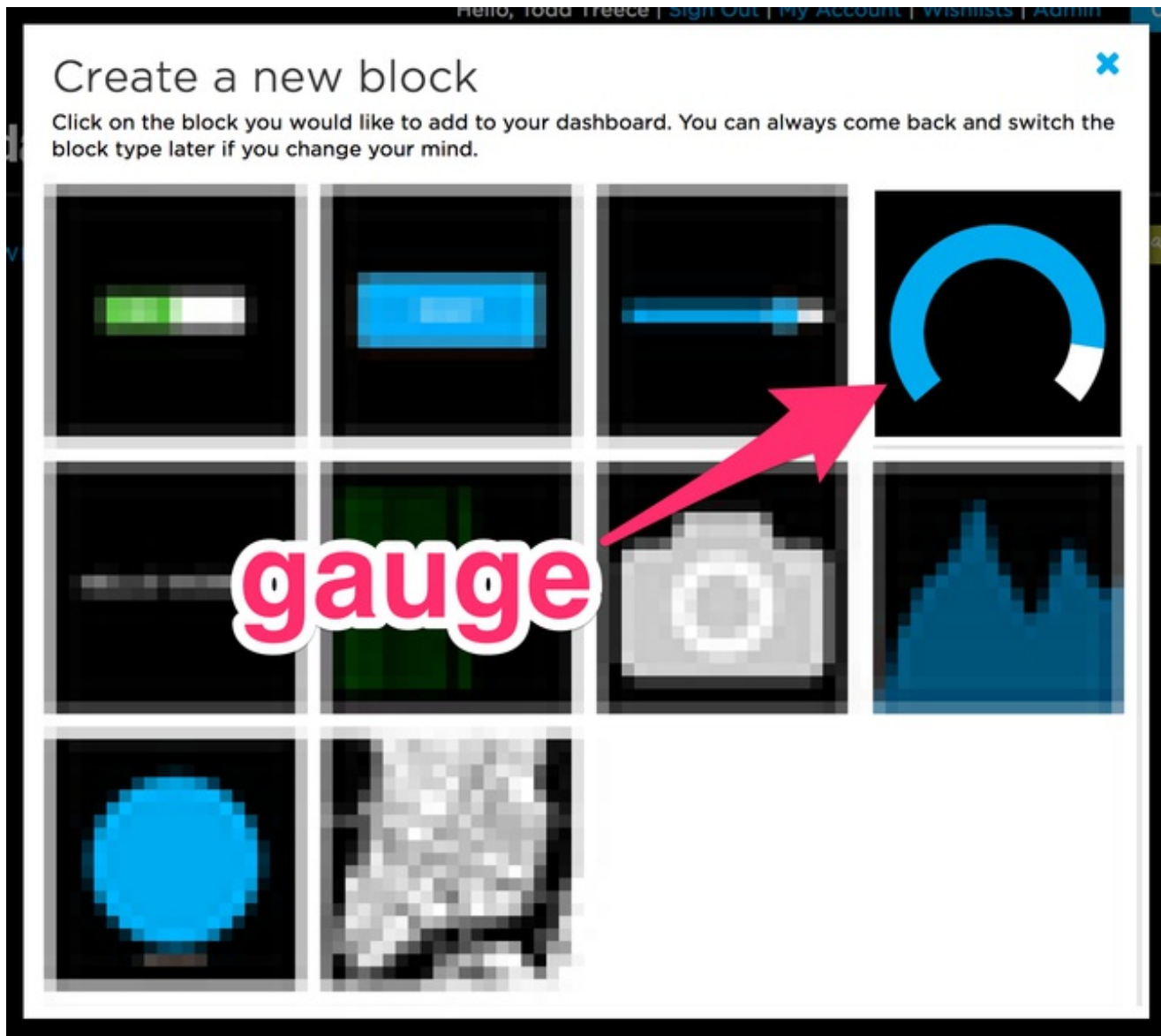
You will then be presented with a list of block types to choose from, like the one seen below.



Let's take a quick look at the available blocks.

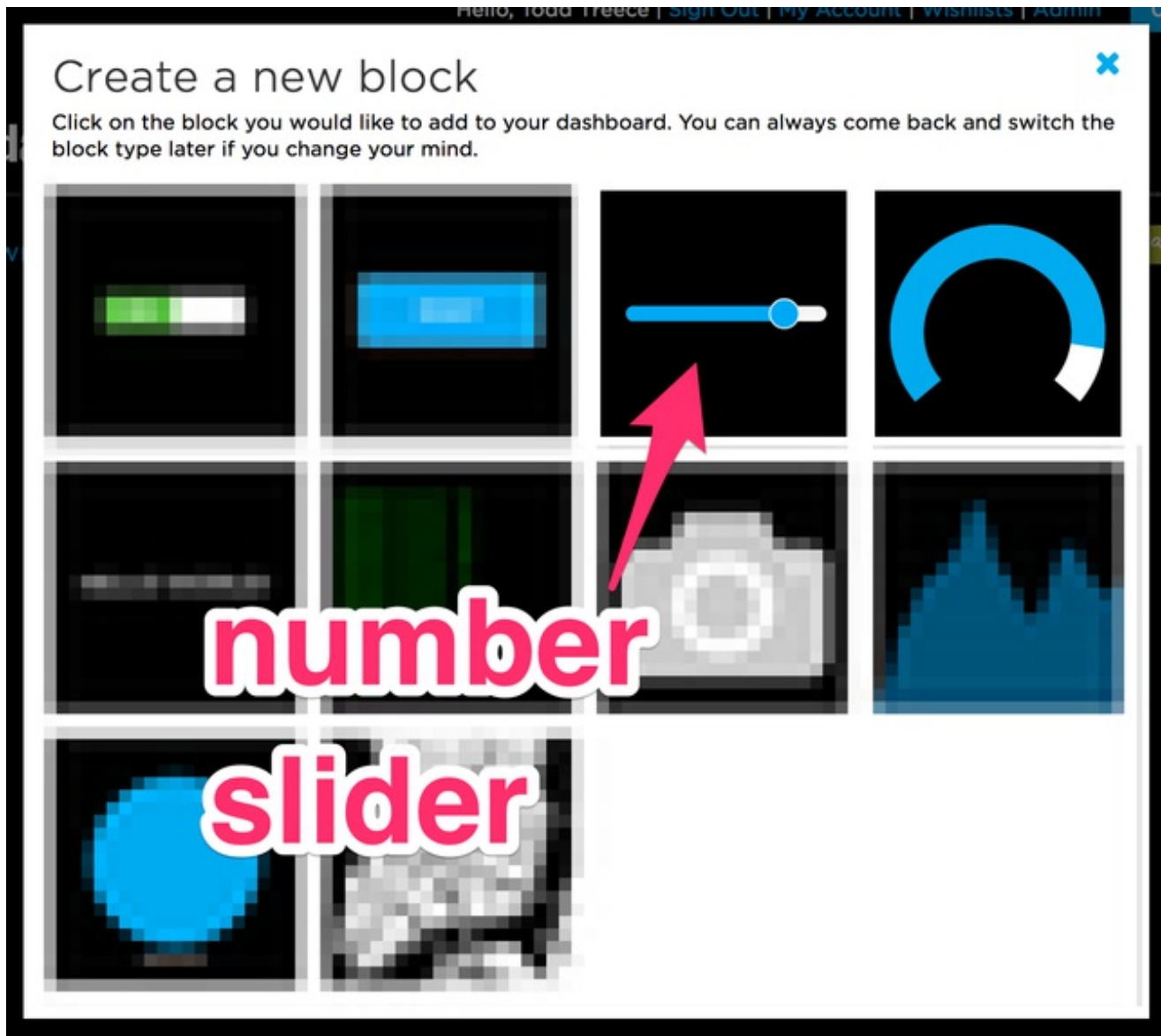
Gauge

The gauge block allows you to quickly view the current value of a numeric feed. You can set a minimum and maximum value for the gauge, and it will automatically scale the value to a percentage and display it graphically. The gauge will update automatically whenever a new value is pushed to the feed.



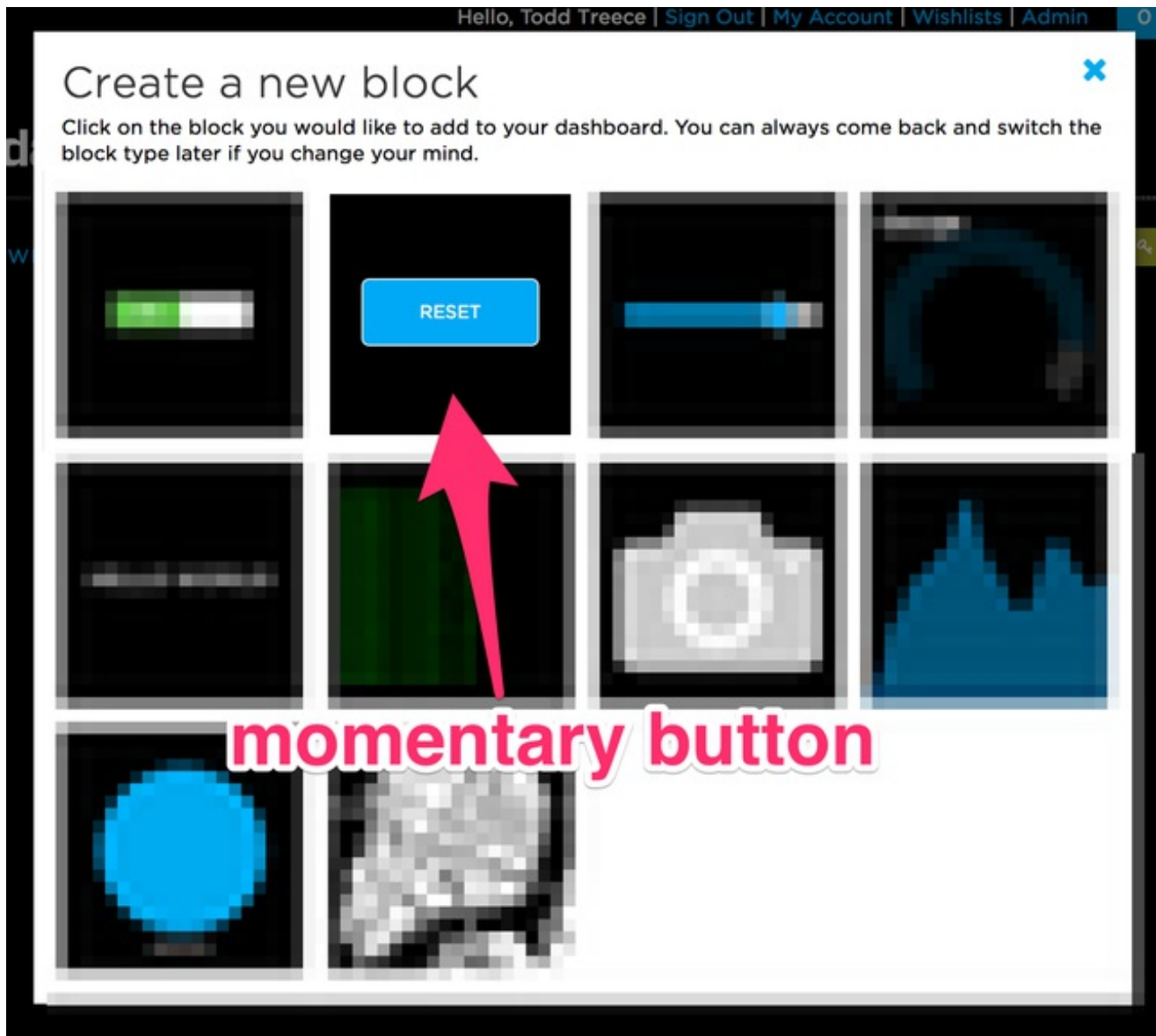
Number Slider

The number slider allows you to quickly change the numeric value of a feed. You can set the minimum and maximum values for the slider, as well as change the amount the slider will increment when you drag the handle.



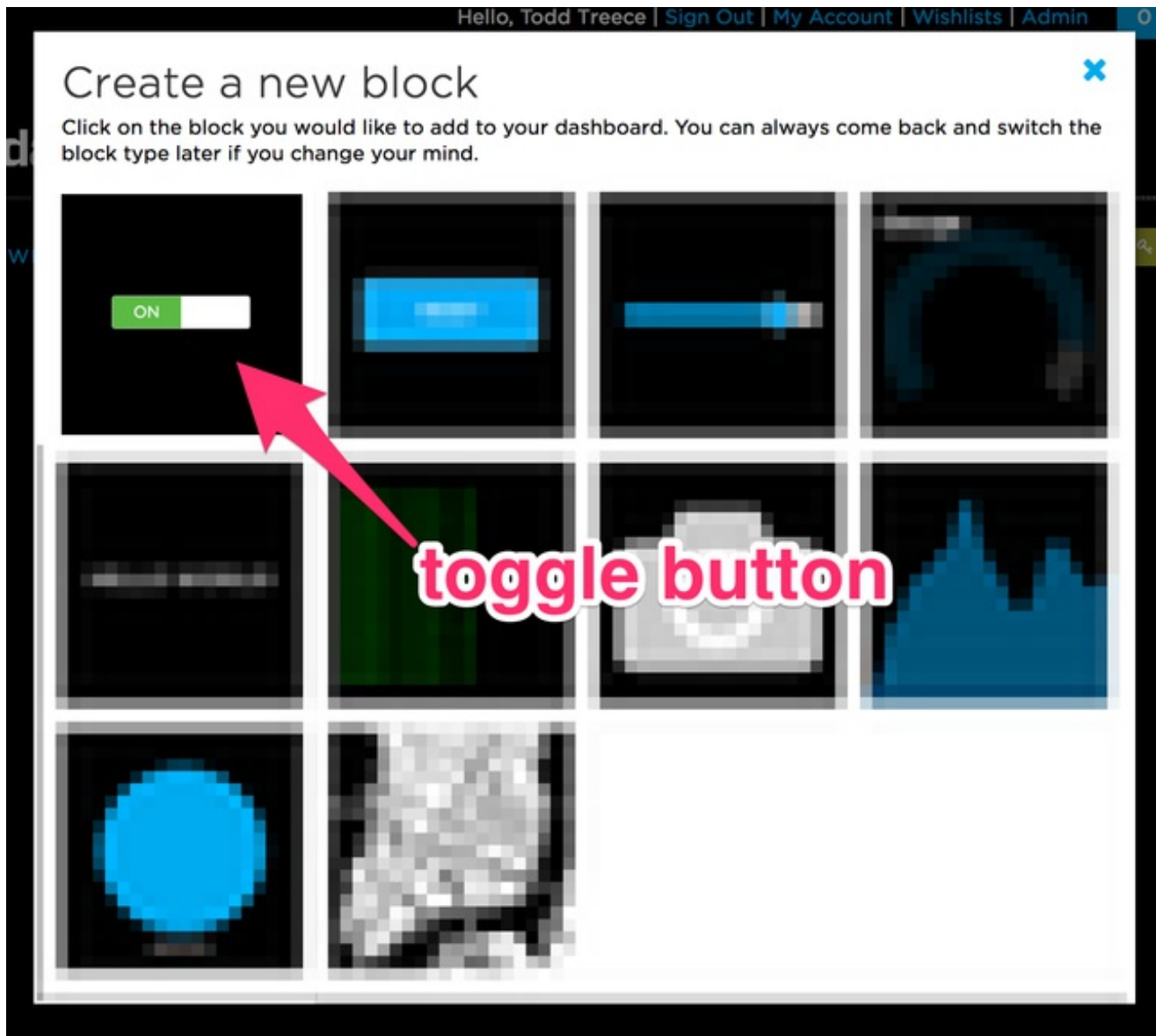
Momentary Button

The momentary button allows you to easily push a value to a feed. This can be useful if you wish to control devices attached to Adafruit IO. For example, if you wanted to feed your pet from your smartphone, you could use a momentary button to send the message to your feeding device.



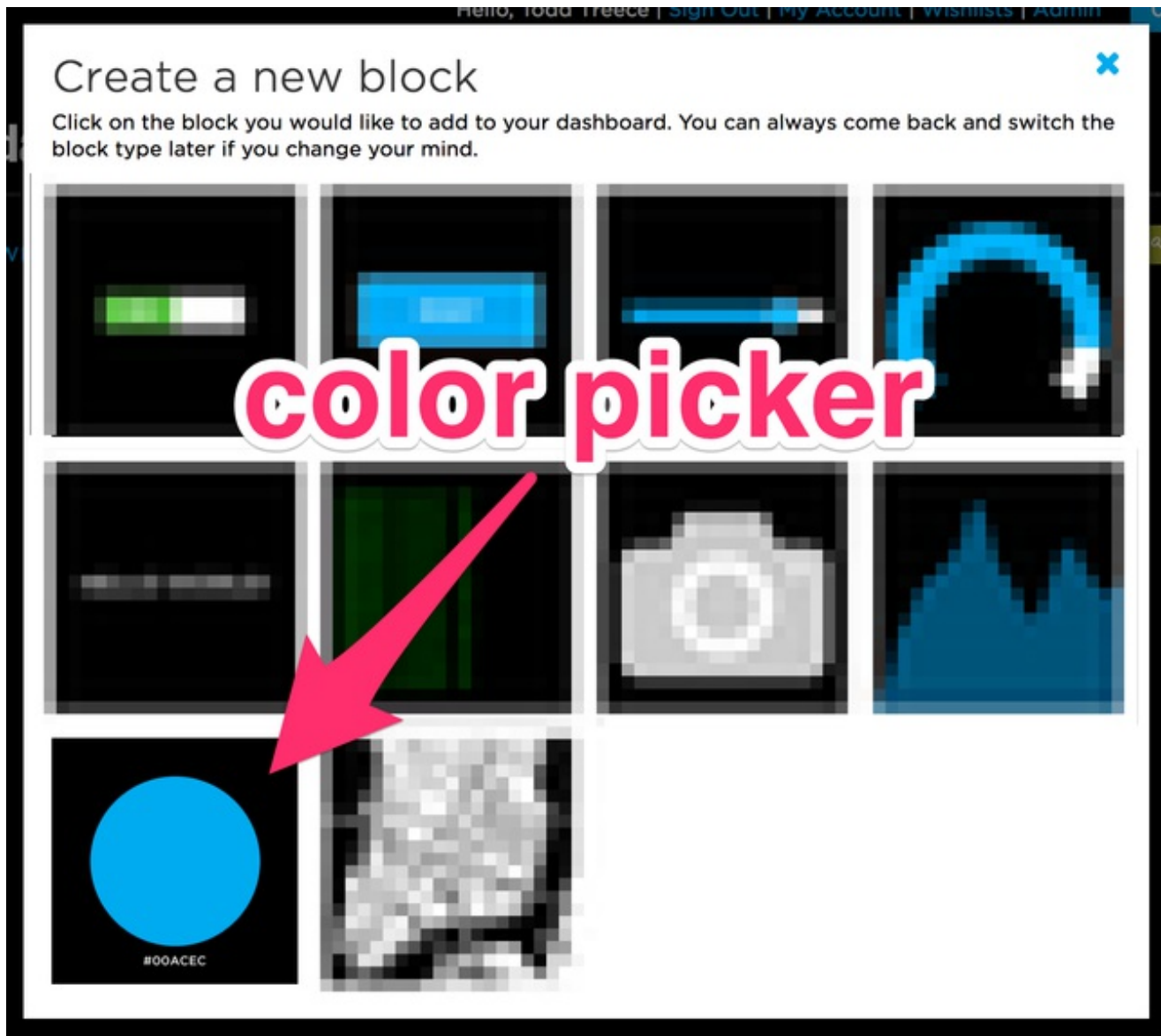
Toggle Button

The toggle button will allow you to switch between any two text or numeric values. Unlike the momentary button, the values will stay the same until you click the button again to toggle to the second value.



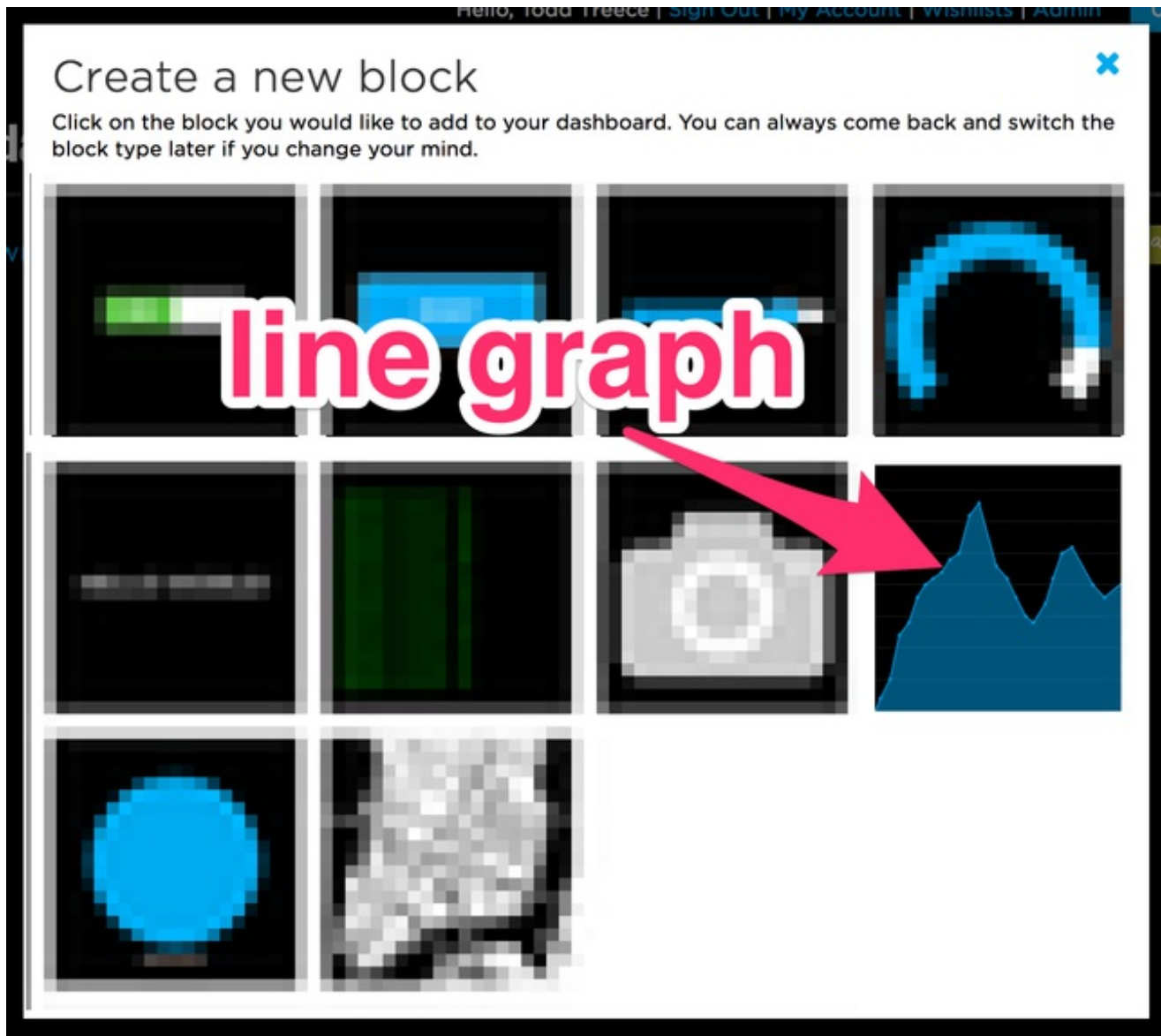
Color Picker

The color picker allows you to quickly select a RGB hex value for a color using a standard color picker interface. The new hex value will be pushed to the feed whenever you change the color.



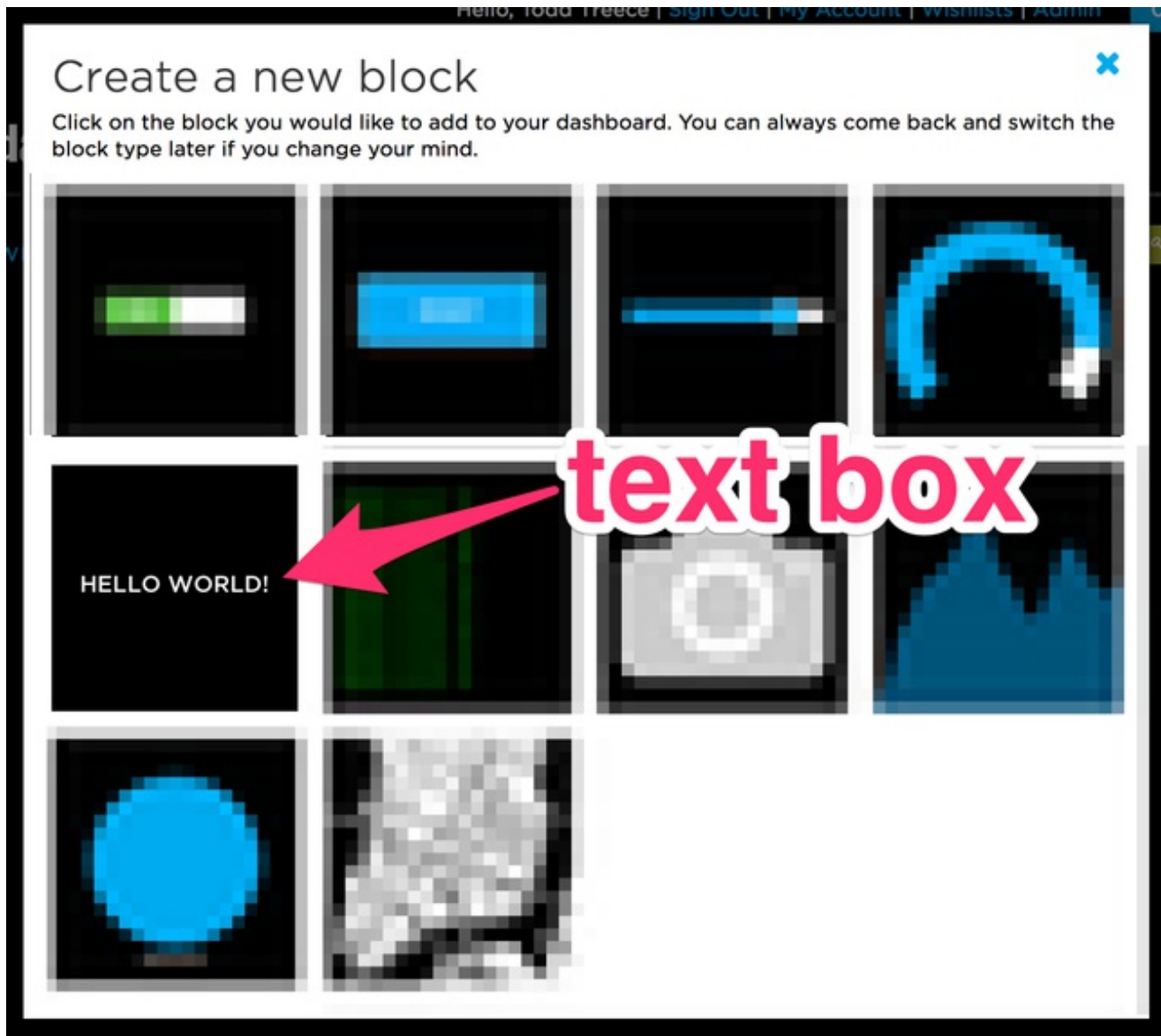
Line Graph

The line graph allows you to visualize numeric data over time. You can set the time range in hours that the chart will load, and set the labels for each axis of the chart. The chart will update dynamically whenever new values are pushed to the feed.



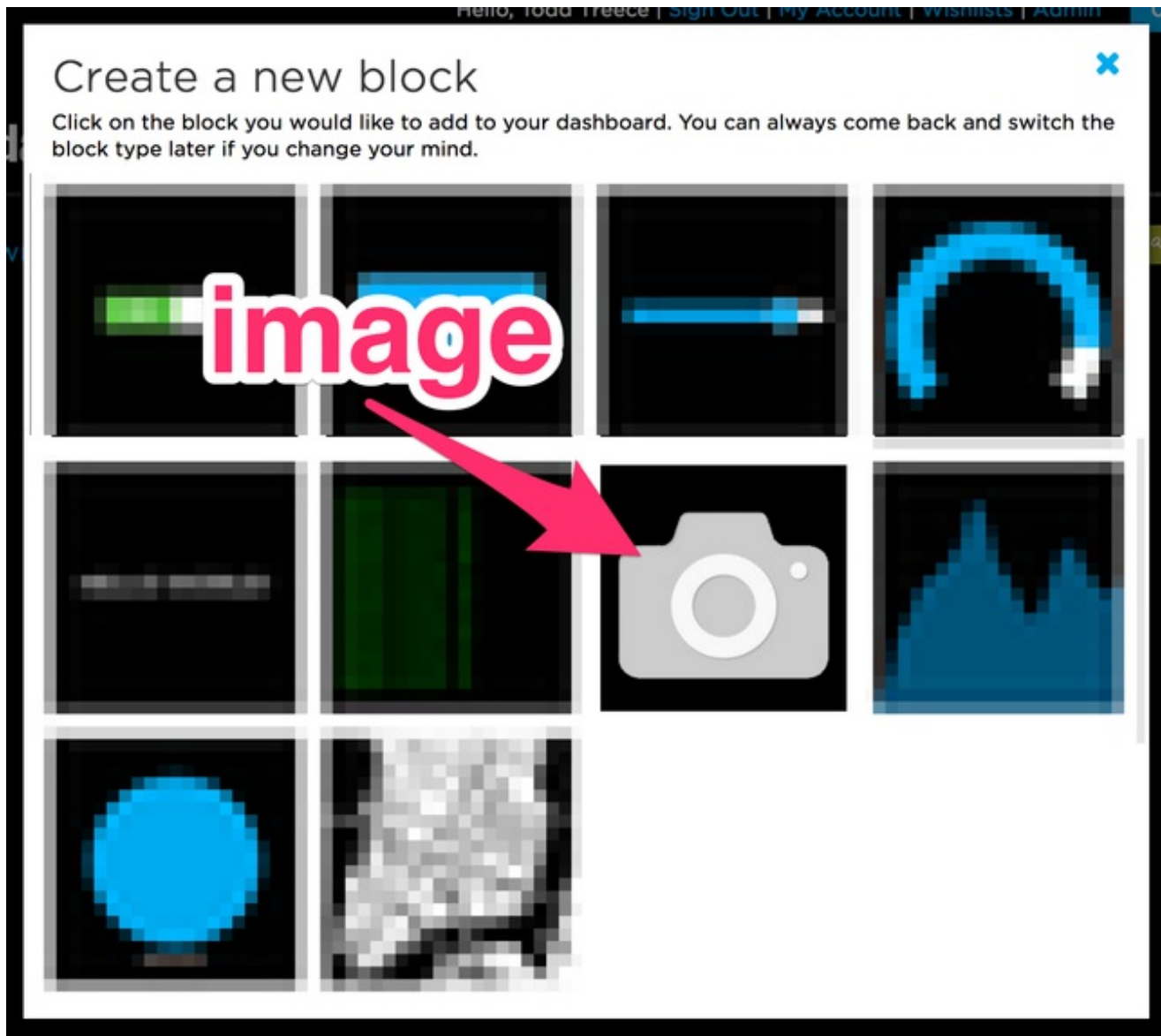
Text Box

The text box is both a freeform text input and output. You can use it to set new values for a feed, and it will also dynamically update when any new values are pushed from other sources.



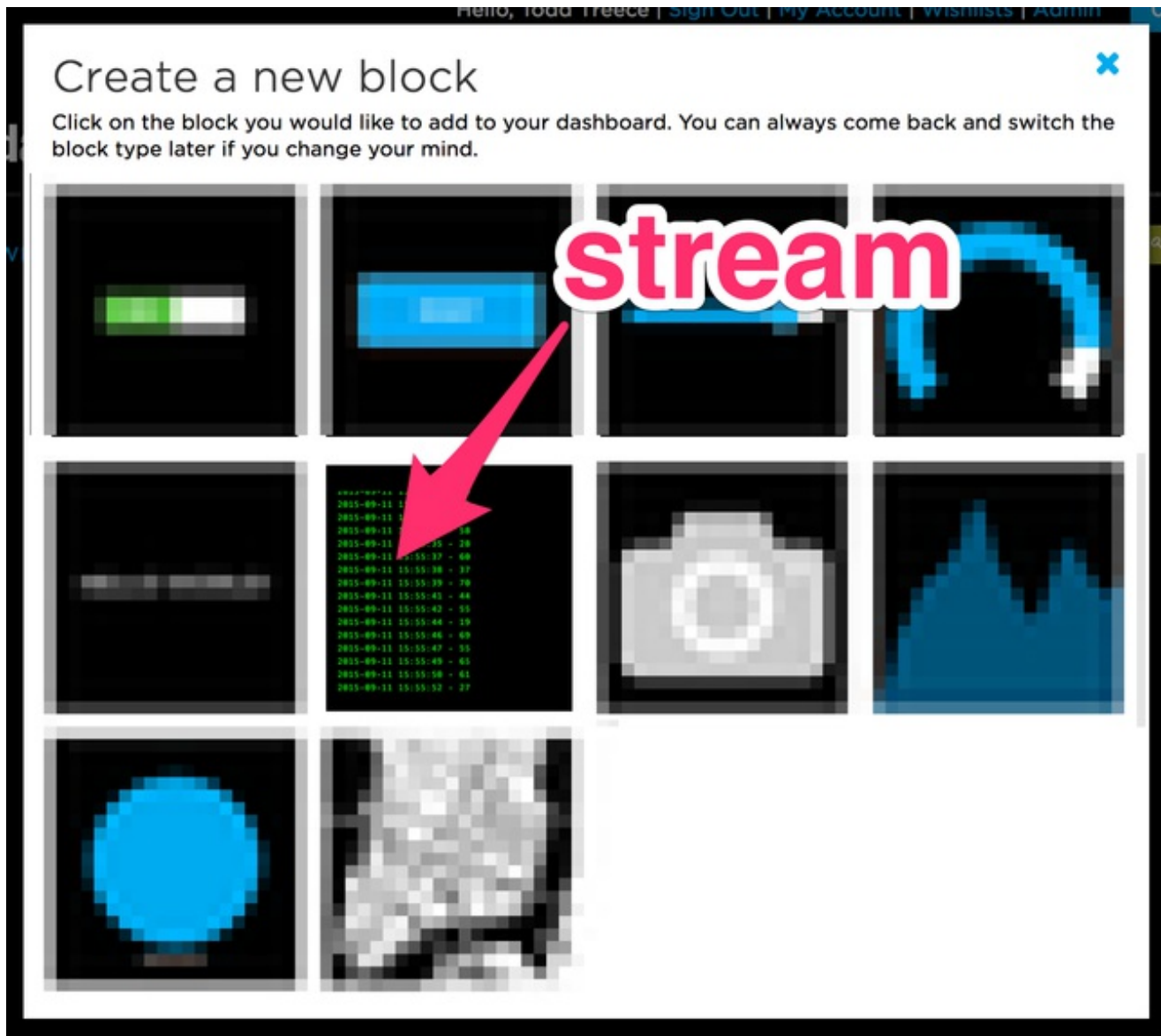
Image

The image block allows you to display images pushed from devices with cameras such as the Raspberry Pi. The image block requires a feed with history disabled.



Stream

The stream block displays incoming data from one or many feeds, and will also display any errors or throttle messages when they occur. Unlike the text box, the stream block displays multiple lines of feed history, which can be useful for debugging.



Navigating the Create New Block Form

There are three steps in the create block form:

1. Select block type
2. Select feed(s)
3. Block settings

Once you have selected a new block type by clicking on the icon, you will be presented with a list of feeds. This will allow you to select a feed to attach to your new block. Some blocks, such as the stream and line graph blocks, allow you to attach multiple feeds. Click on the checkbox next to the feed to select it, and click the **Next step** button to continue.

Choose feed ✕

A toggle button is useful if you have an ON or OFF type of state. You can configure what values are sent on press and release. If you have lot of feeds, you may want to use the search field. You can also create a feed quickly below.

Group / Feed	Last value	Recorded
☐ default		
☑ Example	95	11 minutes ago
☐ Test		a few seconds ago

The third section allows you to customize the settings for the block type you selected. Each block will have common settings like block title, as well as custom options like minimum and maximum values. Click on the **Create Block** button to add a new block once you have finished customizing the block settings.

Block settings ✕

In this final step, you can give your block a title and see a preview of how it will look. Customize the look and feel of your block with the remaining settings. When you are ready, click the "Create Block" button to send it to your dashboard.

Block Title

Slider Min Value

Slider Max Value

Slider Step Size

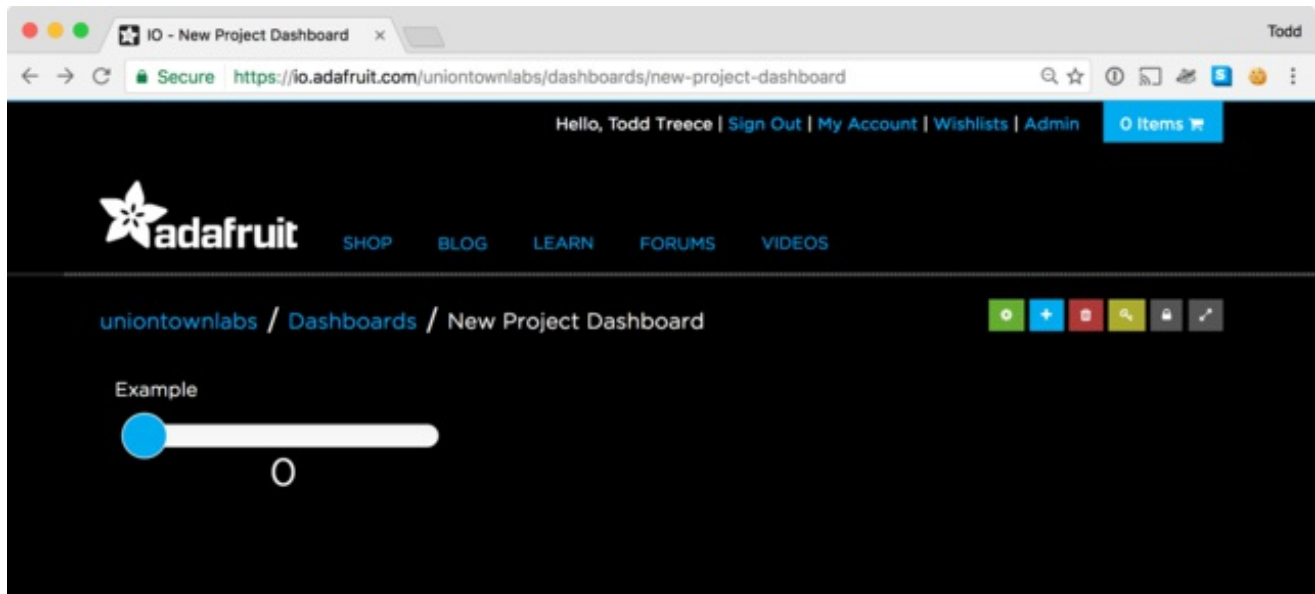
Slider Label

Block Preview

Example

Repeat the process to add more blocks to your dashboard. Currently there is *alimit of 10*

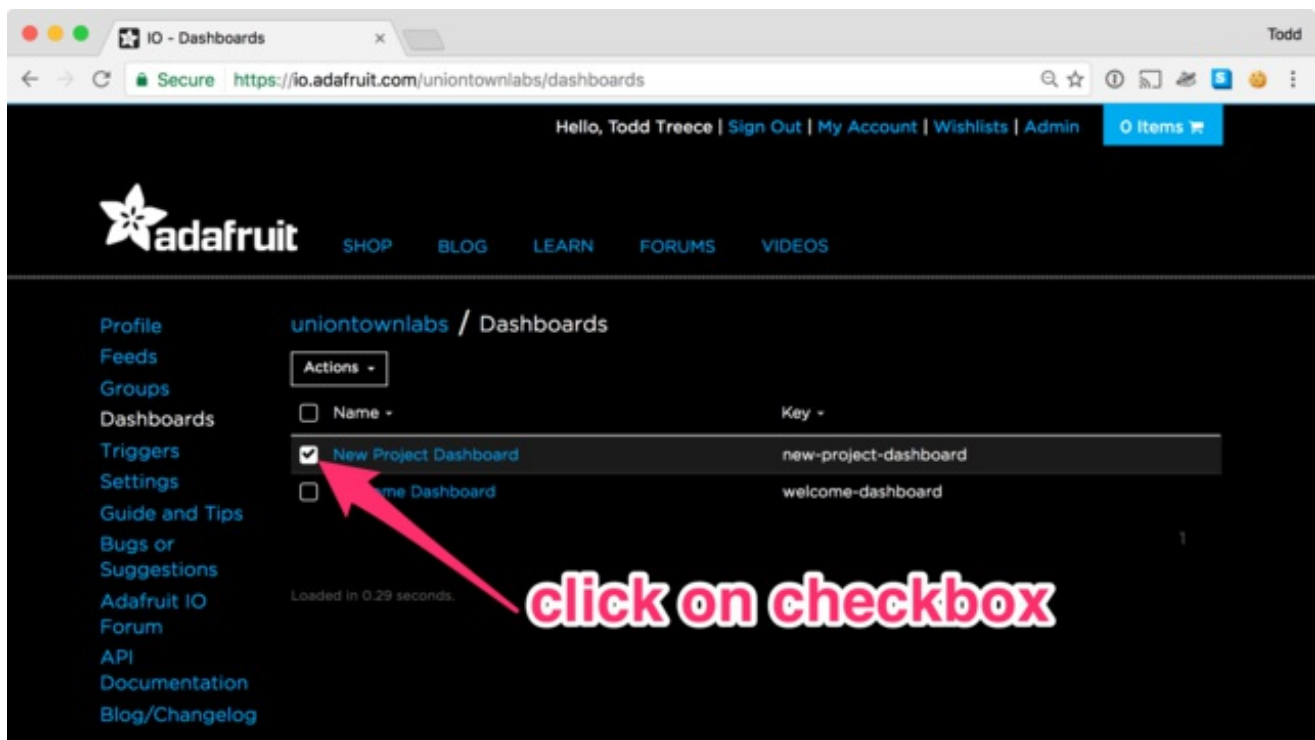
blocks per dashboard.



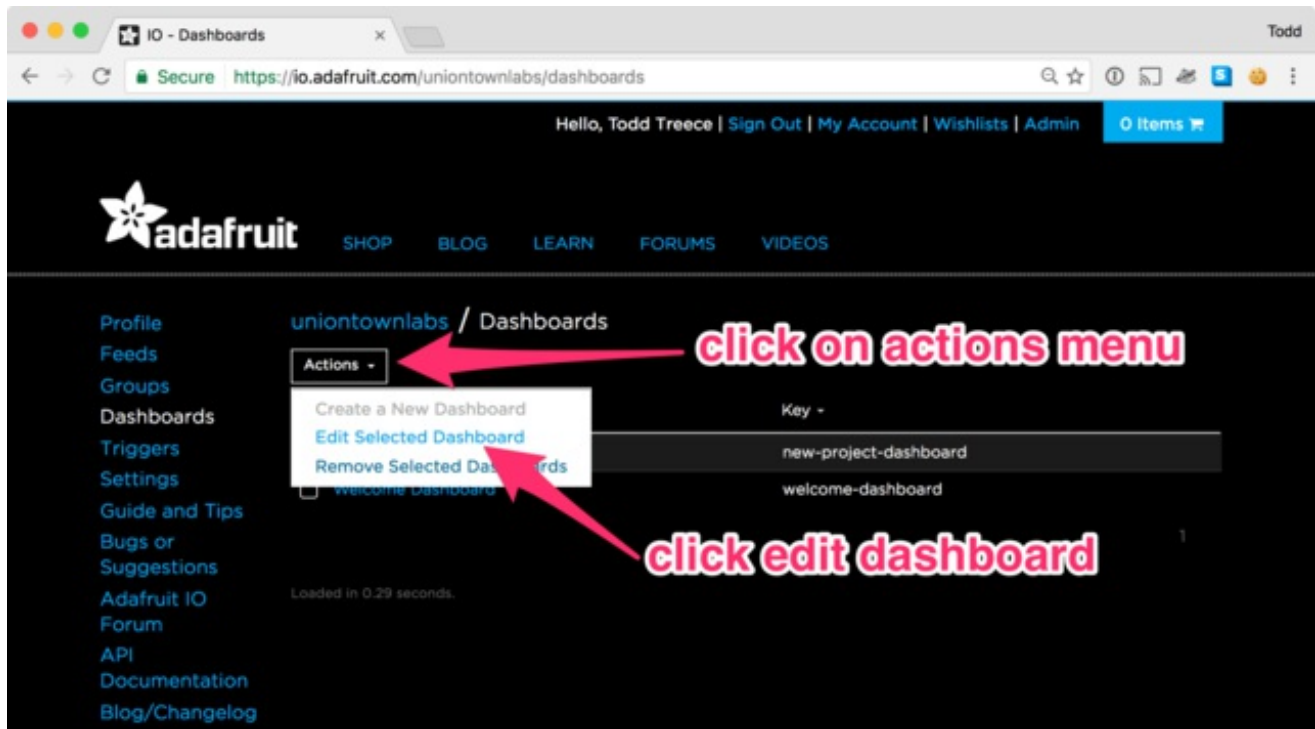
Next, we will look at editing your dashboard.

Editing a Dashboard

If you wish to change the name of your dashboard, you can do that from the list of your dashboards. First, select the dashboard you wish to edit by clicking on the checkbox next to its name.

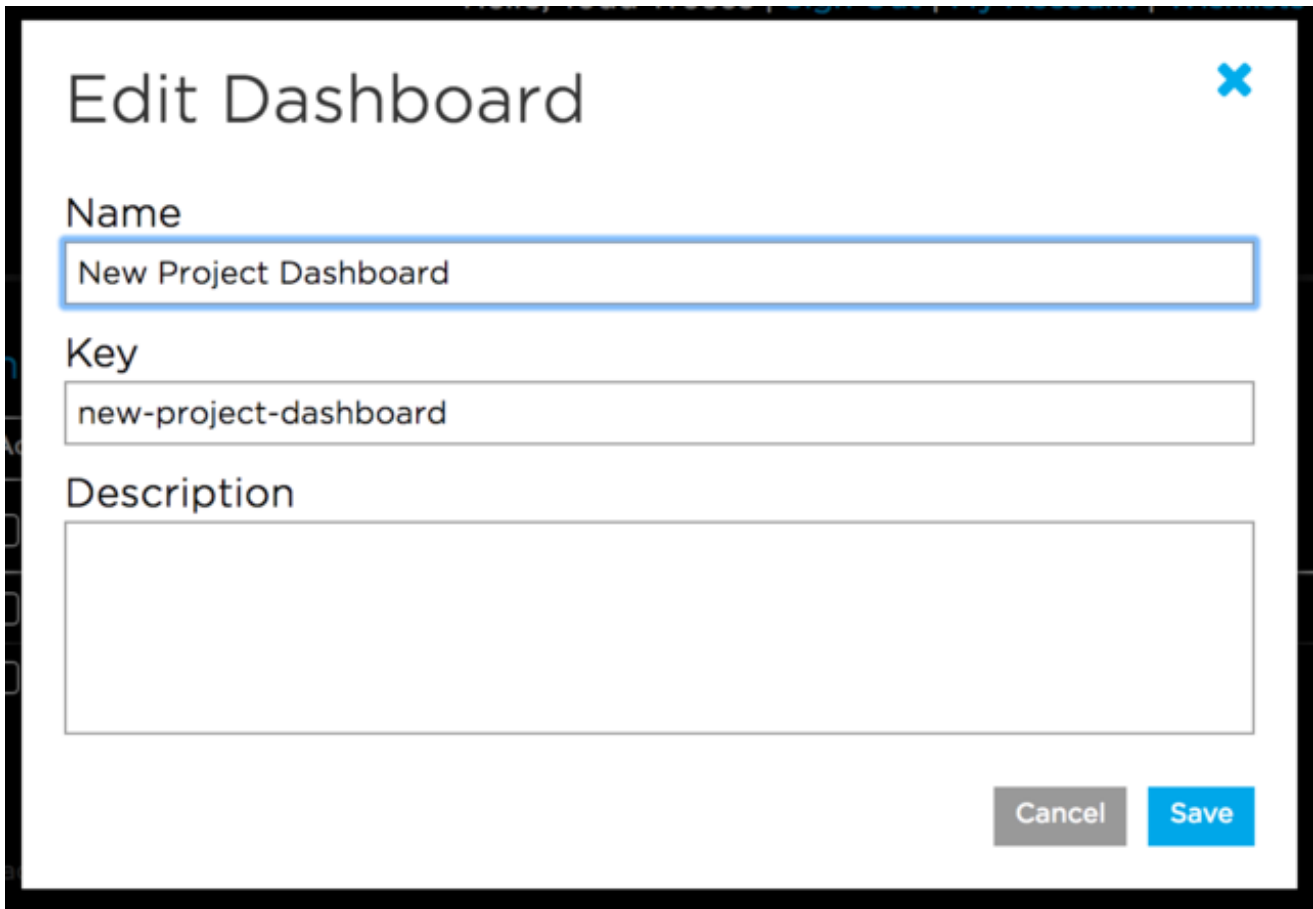


Next, click on the **Actions** menu and select **Edit Selected Dashboard** from the dropdown menu.



You will be presented with a form with three text inputs:

- **Name** - A short descriptive title of your data. Letters, numbers, and spaces are valid characters, and this field is *required*. The feed name must be *unique* for your account.
- **Key** - Used when accessing the dashboard programmatically. By default, the key is a lowercase version of your dashboard name with spaces removed. You can modify the key to be any unique combination of lowercase letters, numbers, and dashes.
- **Description** - A long form description of your data. This field is not required, but it's useful to provide a detailed description if your dashboard will be public.



Edit Dashboard

Name

New Project Dashboard

Key

new-project-dashboard

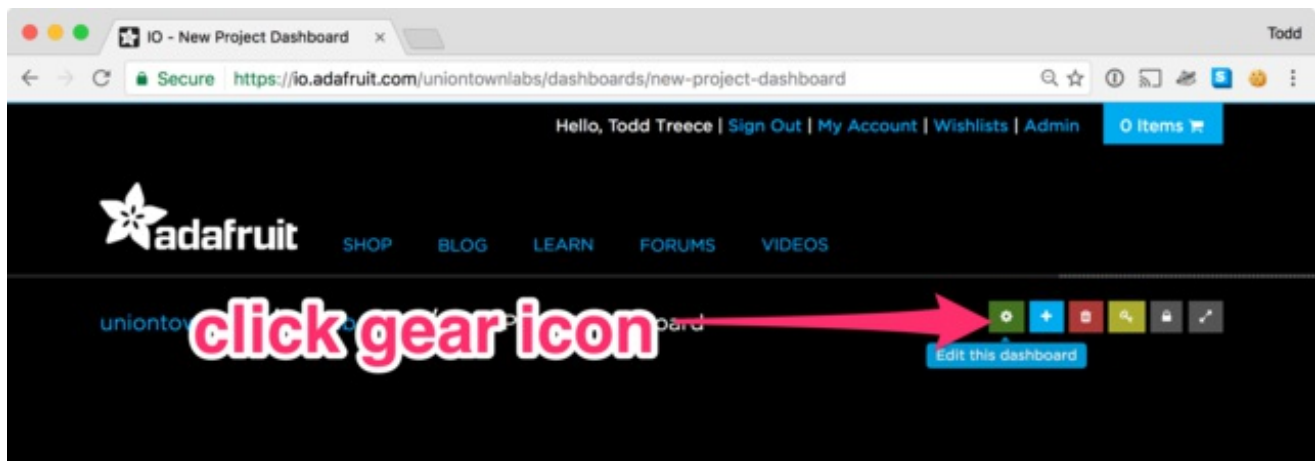
Description

Cancel Save

Once you have finished editing these fields, click the **Save** button.

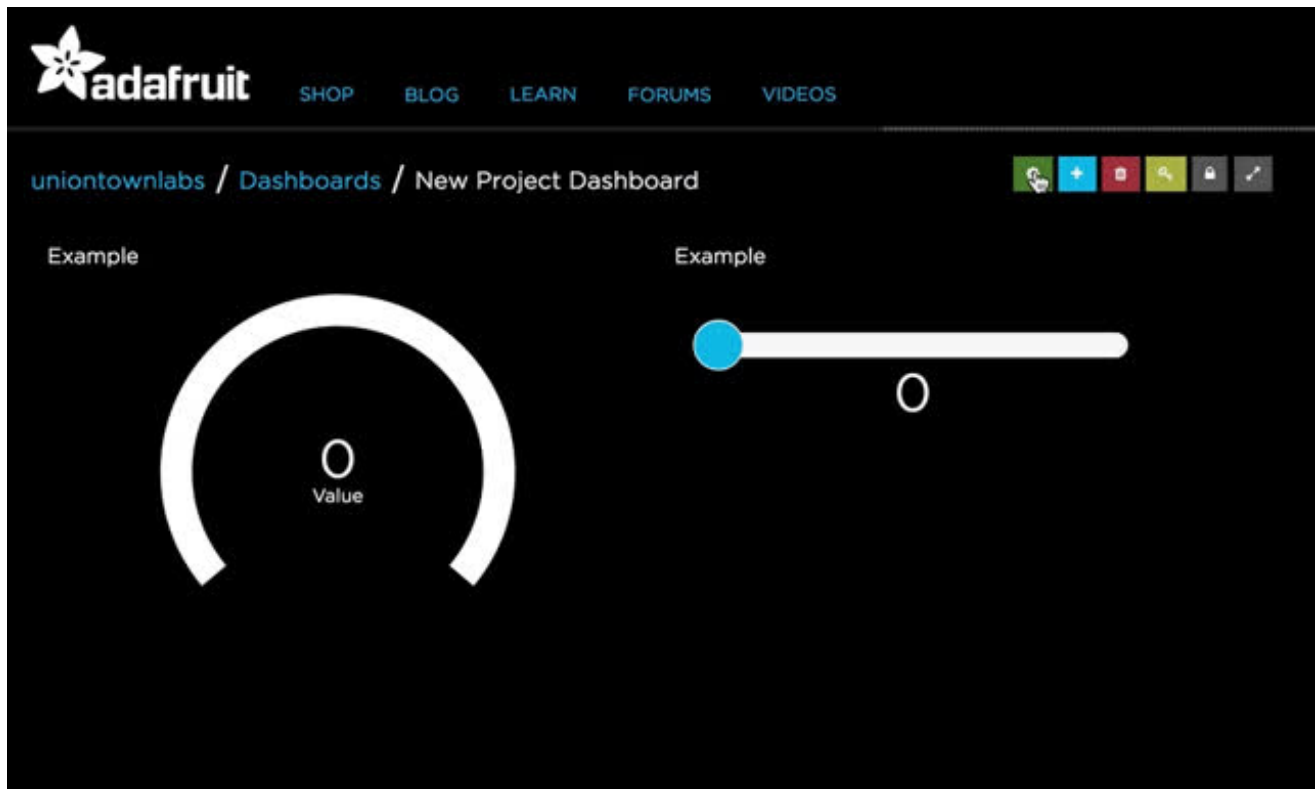
Rearranging and Resizing Blocks

If you have created a dashboard with multiple blocks, you might want to rearrange them or resize them. This is possible by clicking the gear button on the upper right hand side of your dashboard.



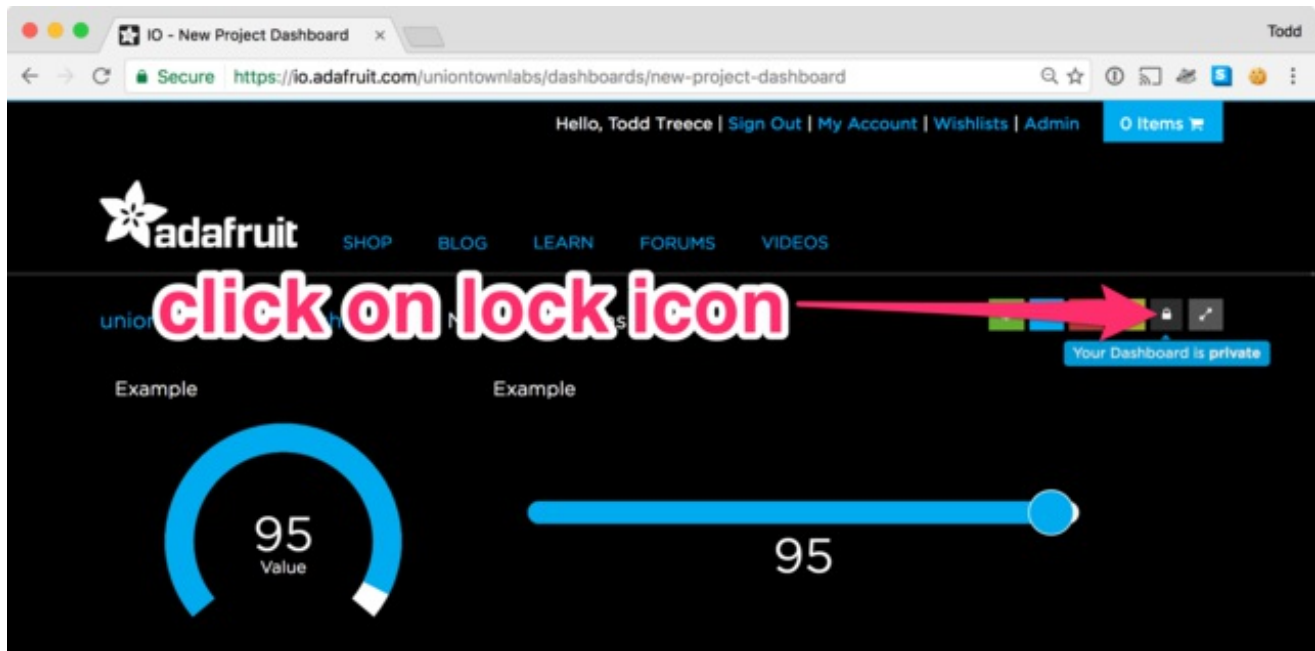
The animation below demonstrates how to resize and rearrange blocks. You can resize a

The animation below demonstrates how to resize and rearrange blocks. You can resize a block by clicking on the bottom right corner and dragging to make the block smaller or larger. To move a block, click on the outer perimeter of the block, and drag the block to its new location. Click the **DONE EDITING** button when you are finished.

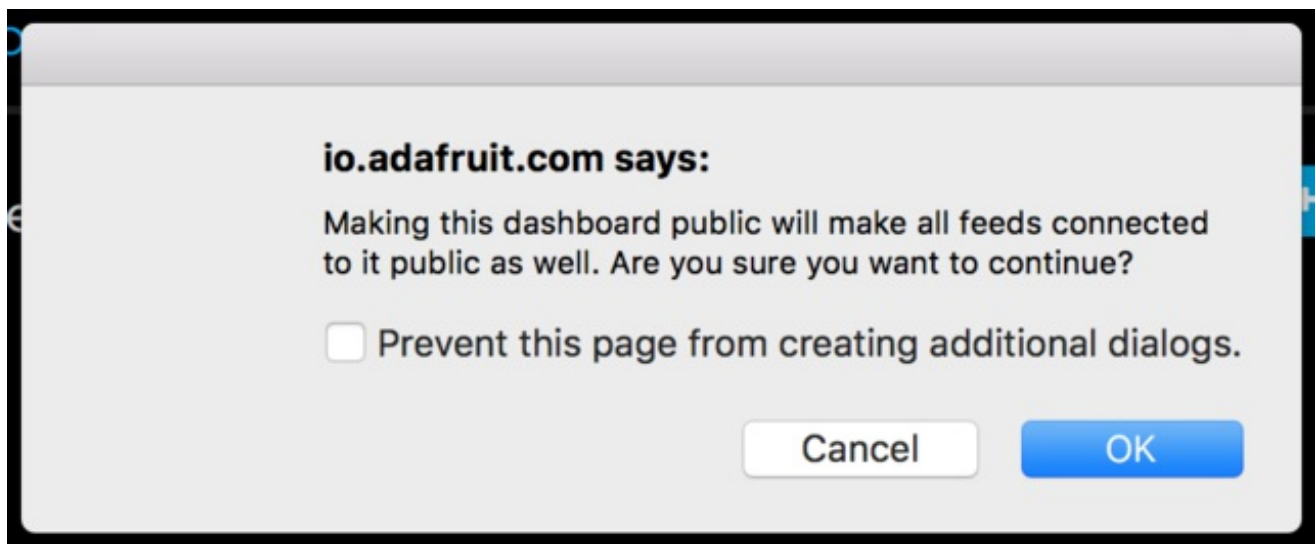


Making a Dashboard Public or Private

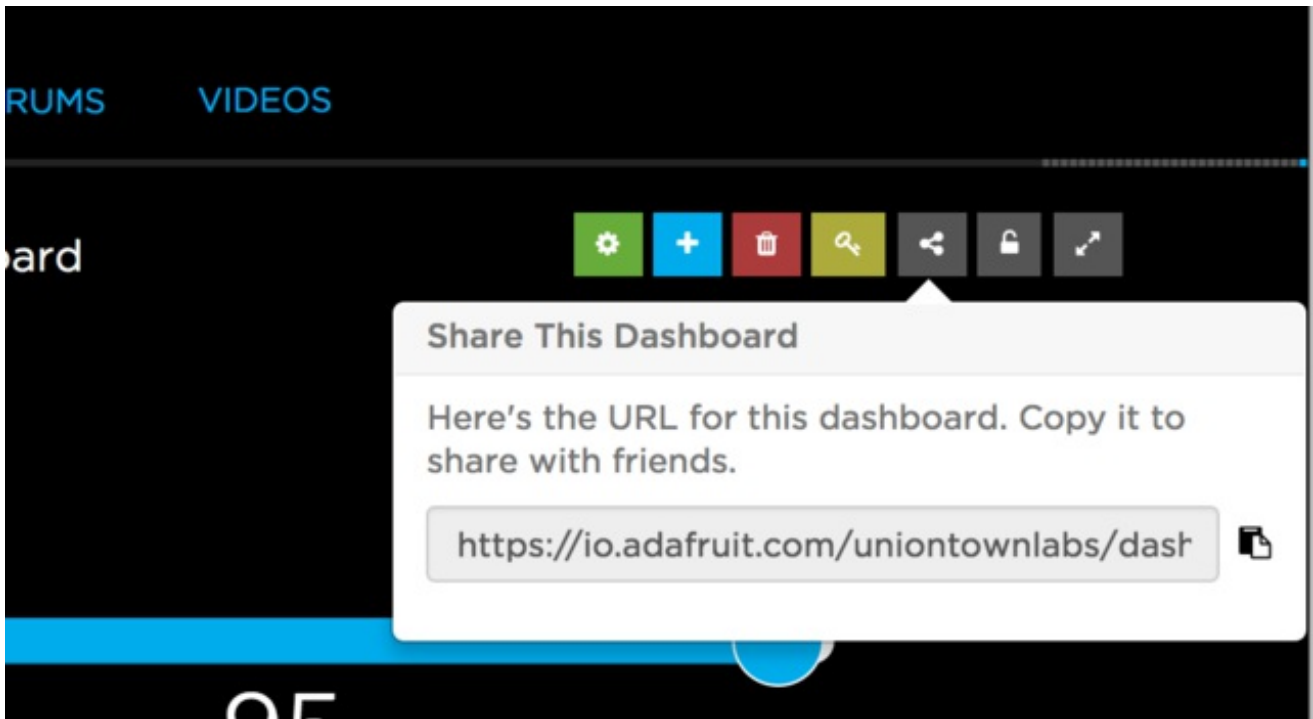
By default, new dashboards are only visible to you, but you can make them visible to anyone by clicking on the **lock button** on the upper right hand side of the screen. This button will toggle the dashboard between public and private.



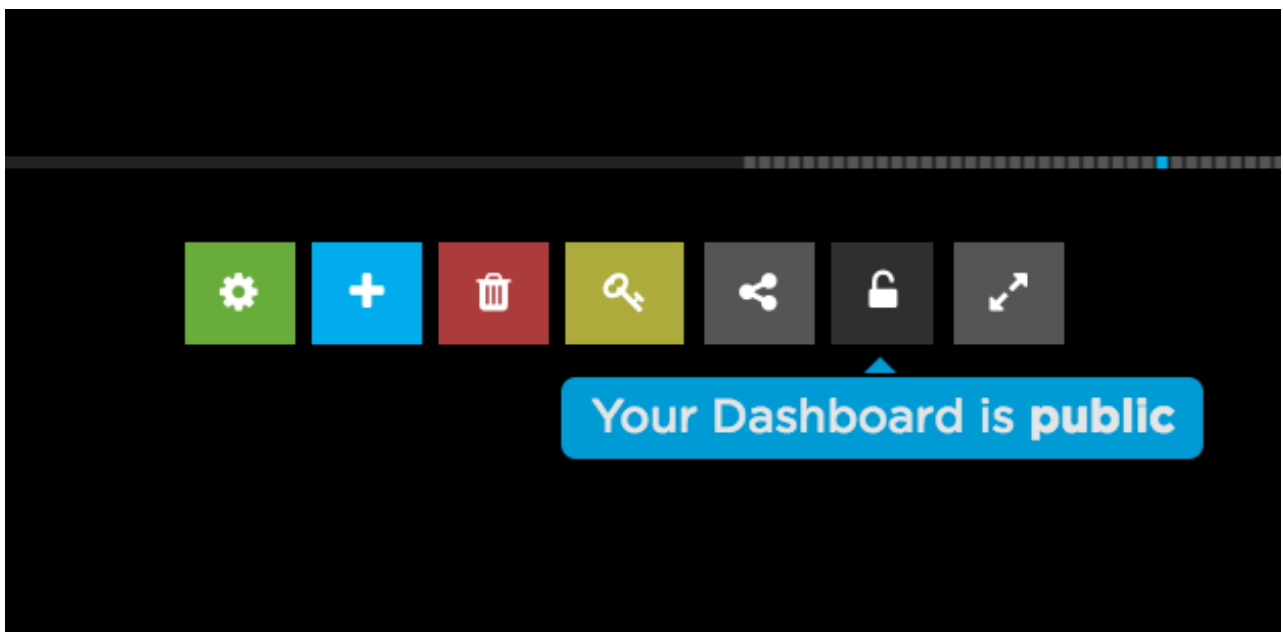
By making a dashboard public, you will also be setting all attached feeds to public as well. Click the **OK** button to confirm.



Once a dashboard has been marked as public, a share button will appear next to the open lock button. Click on the share button to get the public dashboard link.

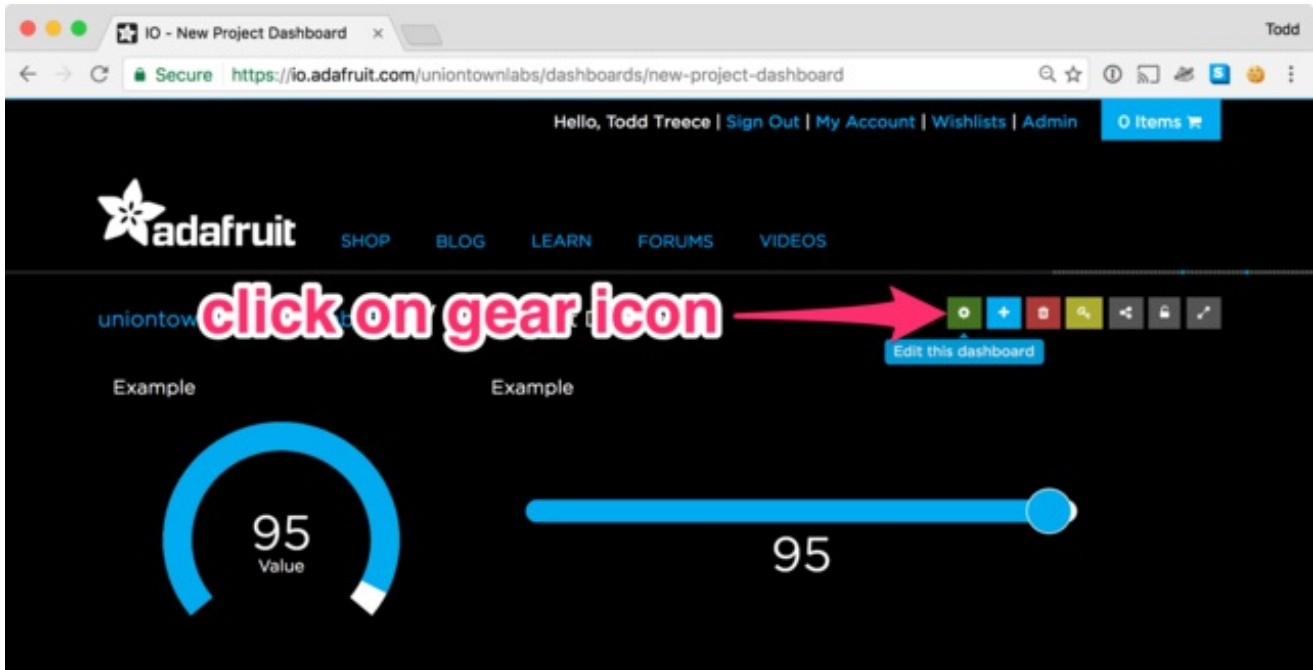


To toggle the dashboard back to private, click on the lock button again.

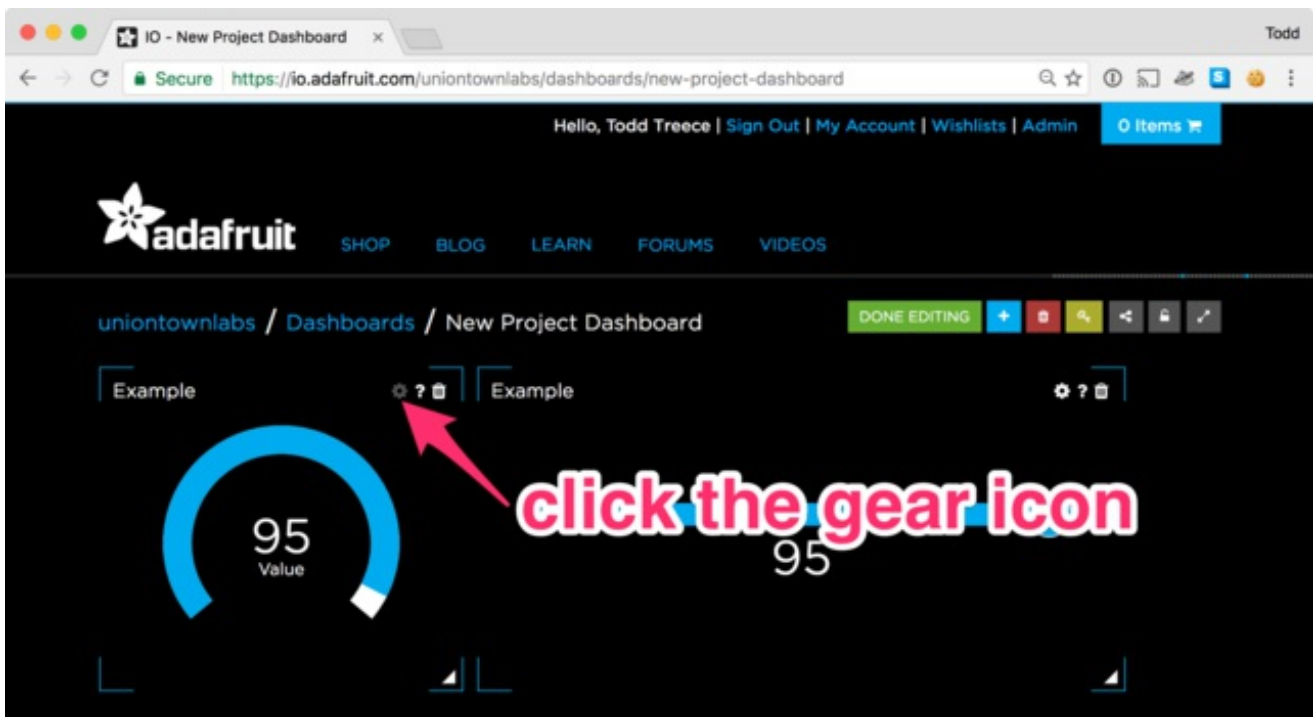


Editing a Block

If you wish to edit a block, you will need to enter dashboard edit mode by clicking on the gear on the upper right hand side of the screen.



Next, click the gear icon on the upper right hand corner of the block you wish to edit.



A form similar to the one you used to create the block will appear. You can change the feeds attached to the block if needed, and click **Next Step** to continue.

Choose feed

A gauge is a read only block type that shows a fixed range of values. If you have lot of feeds, you may want to use the search field. You can also create a feed quickly below.

Search:

Enter new feed name **Create**

Group / Feed	Last value	Recorded
default		
<input checked="" type="checkbox"/> Example	95	an hour ago
<input type="checkbox"/> Test		an hour ago

change attached feeds if needed

click next to continue

You can also edit the block settings if needed. Click **Update Block** to finish editing.

Block settings

In this final step, you can give your block a title and see a preview of how it will look. Customize the look and feel of your block with the remaining settings. When you are ready, click the "Create Block" button to send it to your dashboard.

Block Title:

Gauge Min Value:

Gauge Max Value:

Gauge Width:

Gauge Label:

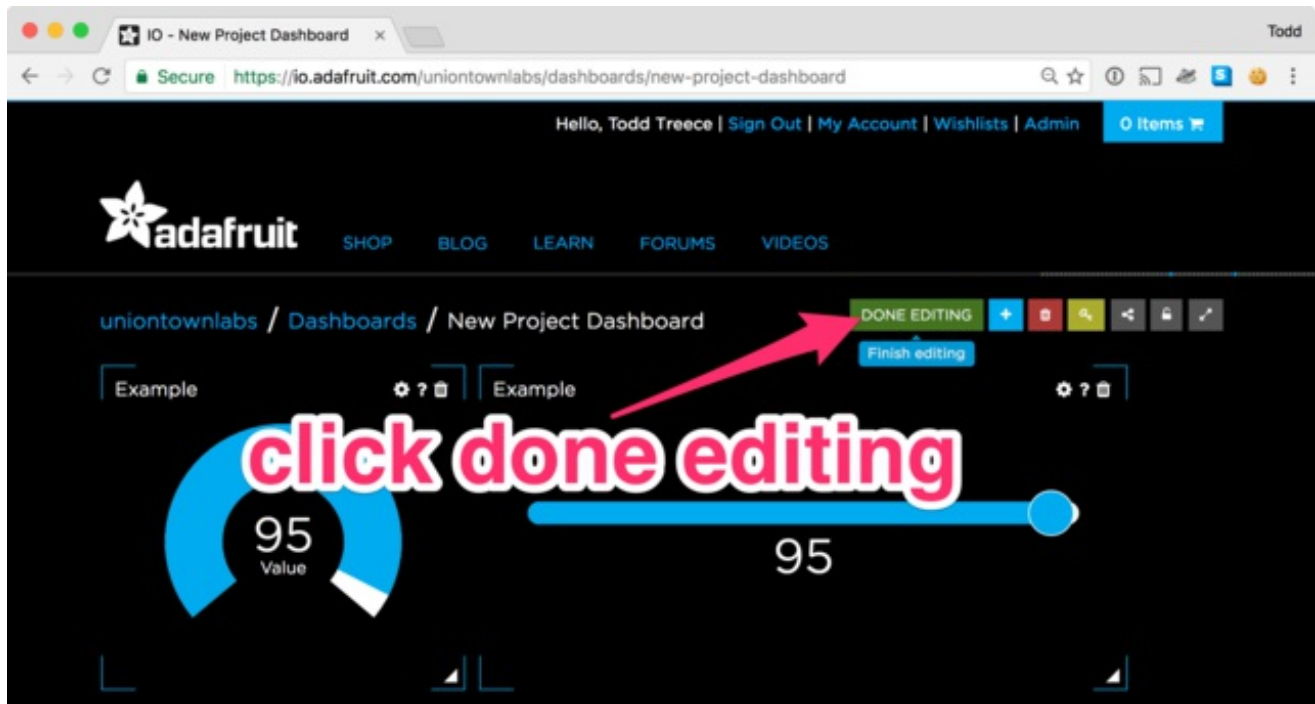
Block Preview

Example

45 Value

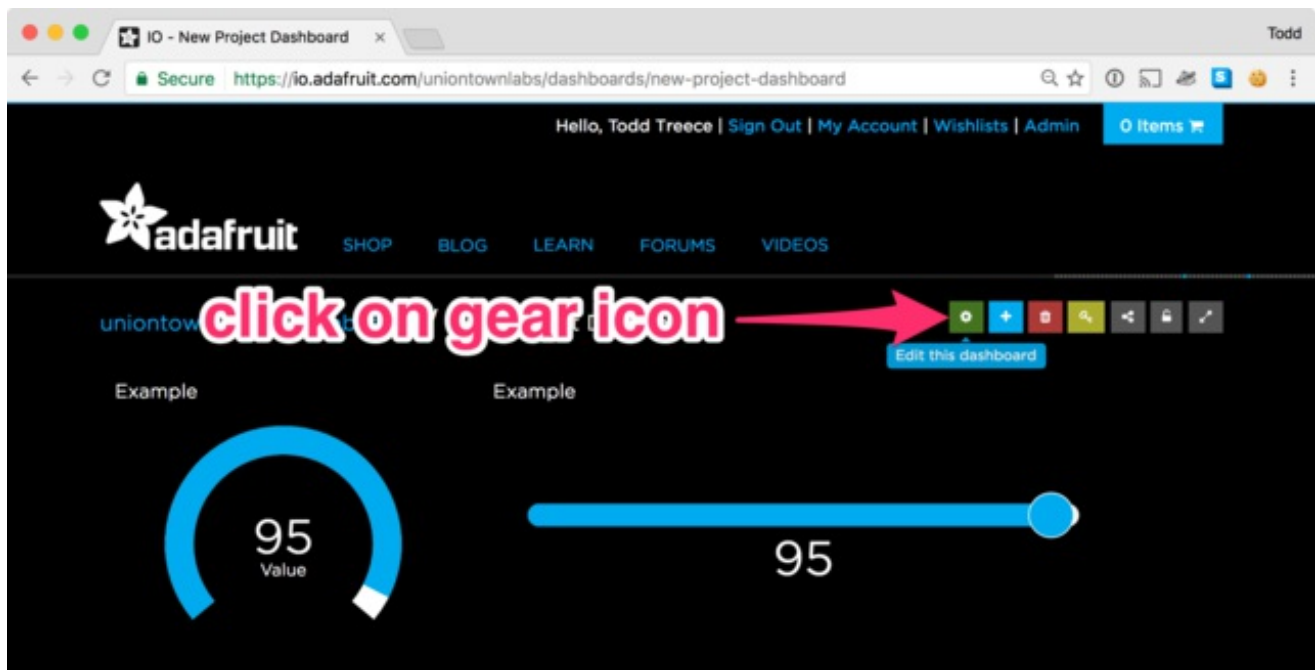
click next to continue

Click the **DONE EDITING** button on the upper right hand side of the screen to exit dashboard edit mode.

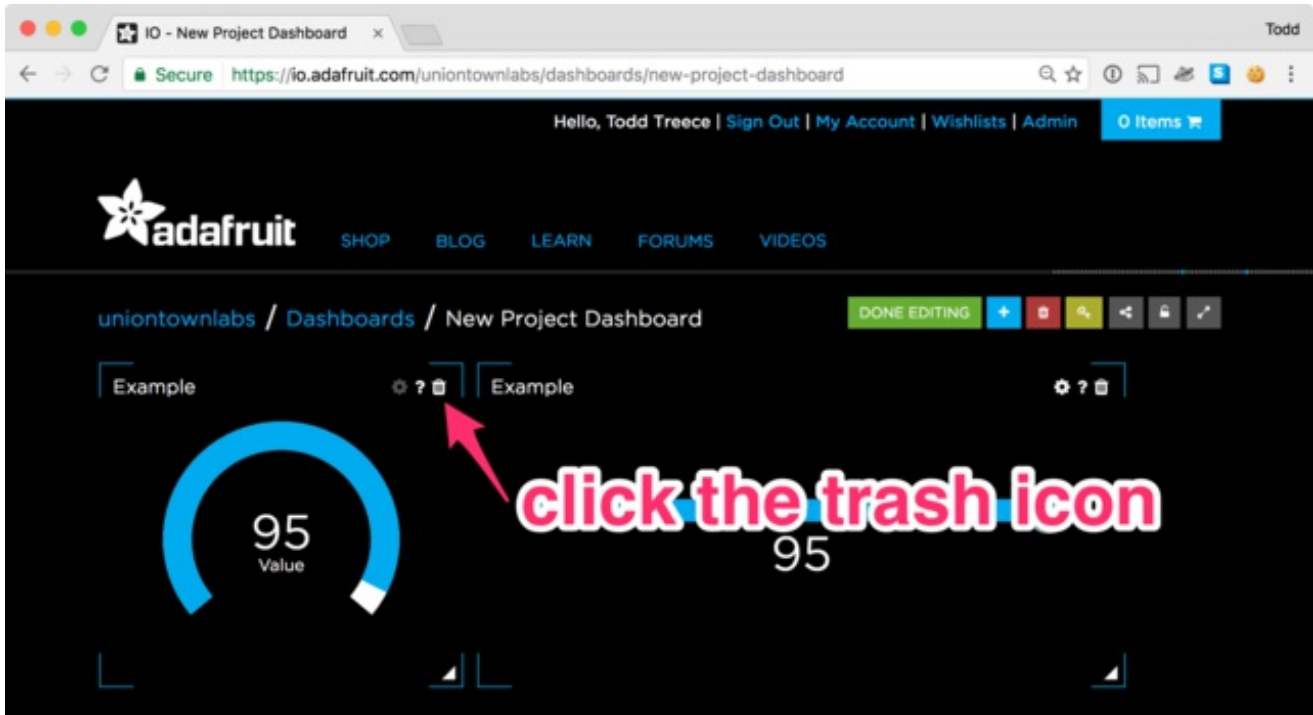


Deleting a Block

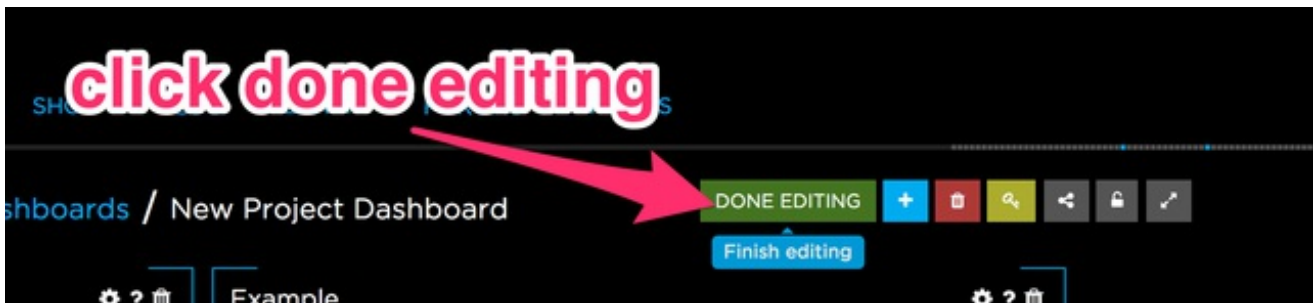
If you wish to delete a block, you will need to enter dashboard edit mode by clicking on the gear on the upper right hand side of the screen.



You can delete a block by clicking on the trash can icon at the top right hand corner of the block while in dashboard edit mode.

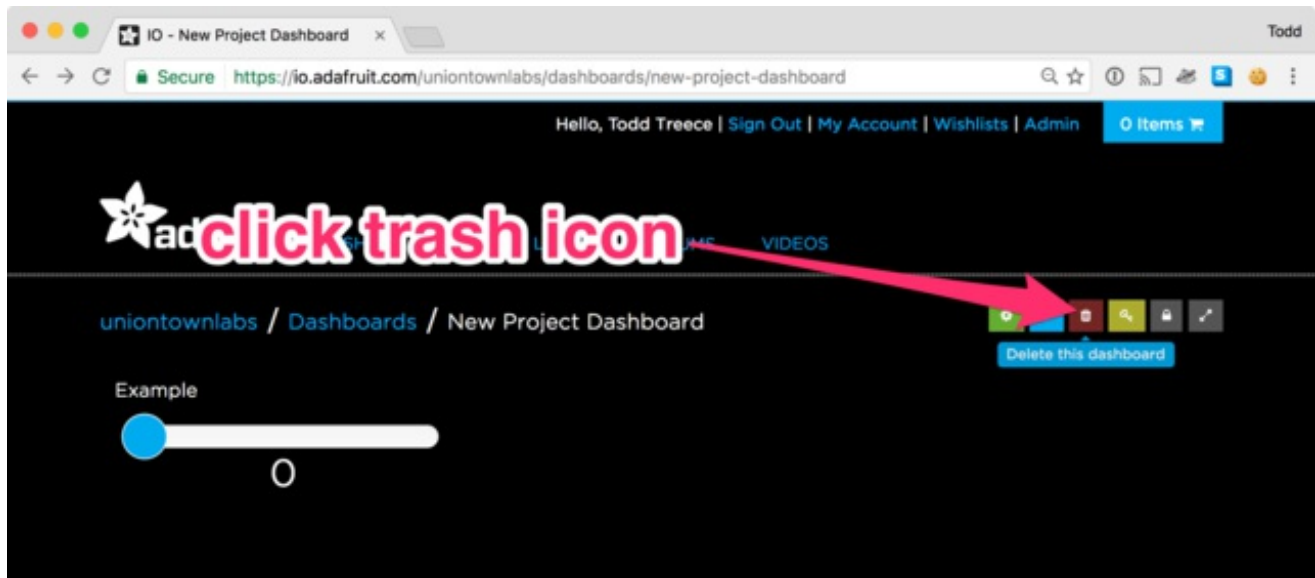


Click the **DONE EDITING** button on the upper right hand side of the screen to exit dashboard edit mode.

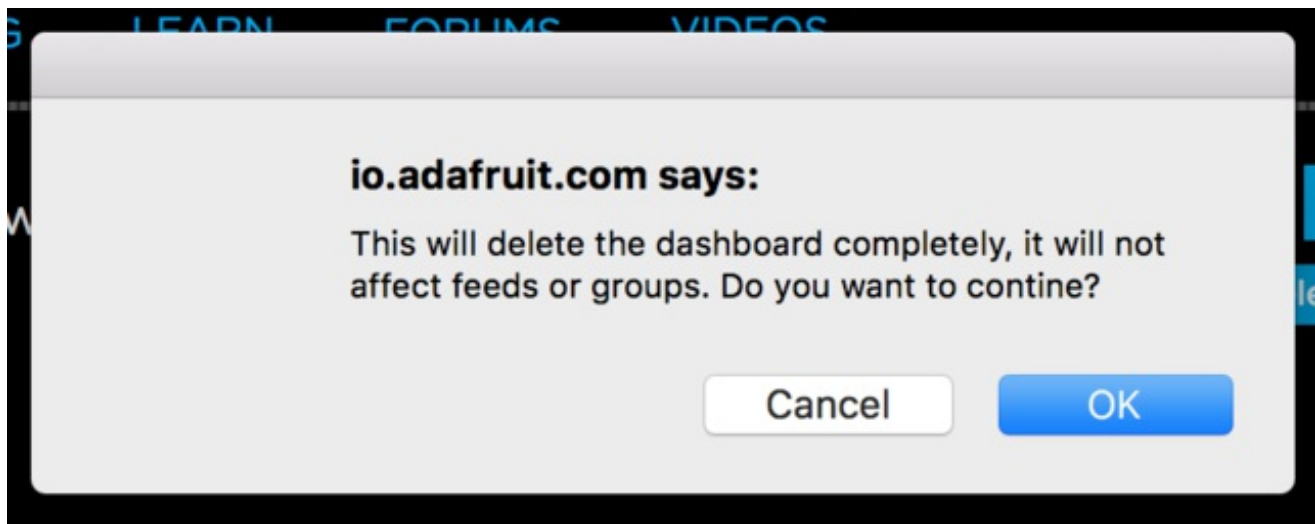


Deleting a Dashboard

If you are currently viewing a dashboard, you can delete the dashboard by clicking on the trash icon on the upper right hand side of the screen.

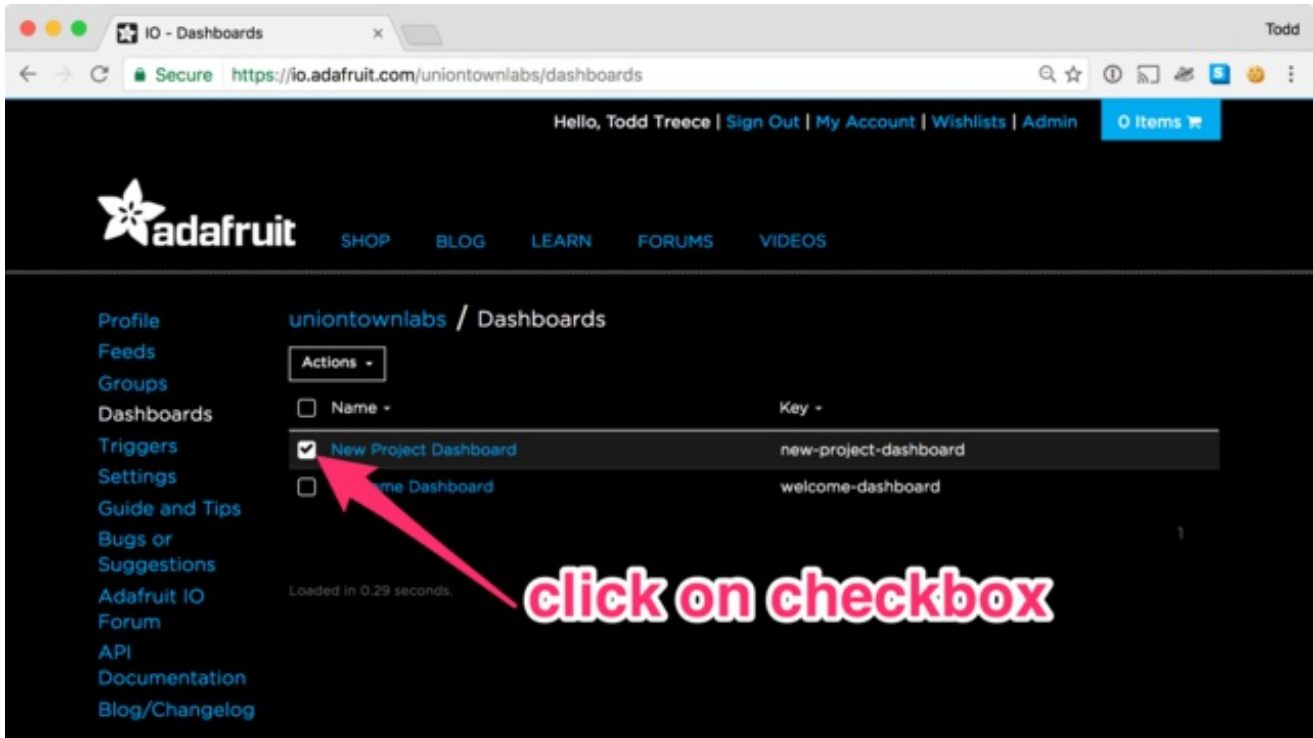


Click the *OK* button on the confirmation dialog to confirm deletion.



Deleting from the List of Dashboards

You can also delete a dashboard from the list of dashboards. To do this, select a dashboard by clicking on the checkbox next to its name.



Then, click on the **Actions** menu and select **Remove Selected Dashboards** from the dropdown menu to delete your dashboard.

