

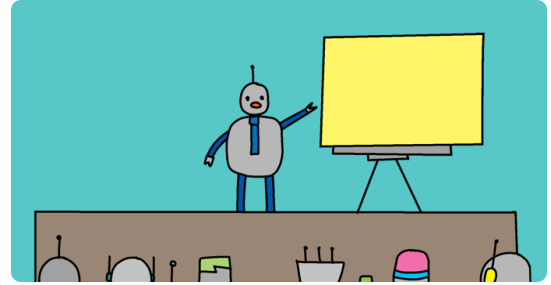


Projects

Project Showcase

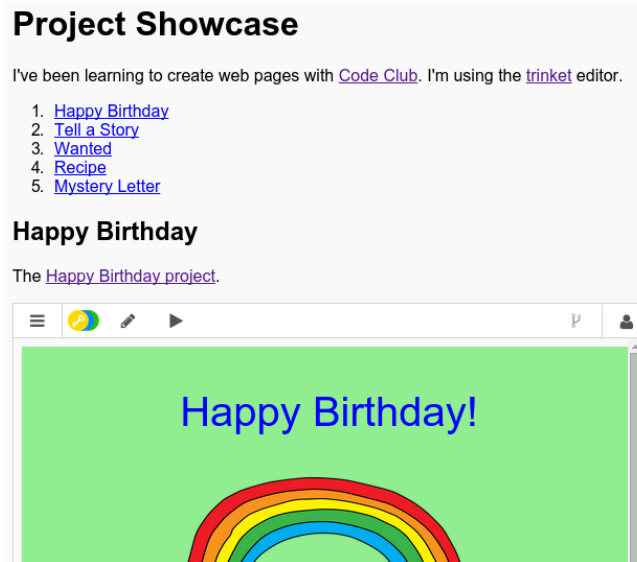
Create a showcase of your web projects.

HTML / CSS



Step 1 Introduction

In this project, you will create a showcase of your HTML projects and learn about links and embedding resources.



Additional information for club leaders

If you need to print this project, please use the **Printer friendly version** (<https://projects.raspberrypi.org/en/projects/project-showcase/print>).



Club leader notes

Introduction:

In this project, children are introduced to hyperlinks and embedding trinkets and Scratch projects within a webpage.

Online Resources

We recommend using **trinket** (<https://trinket.io/>) to write HTML & CSS online. This project contains the following trinket:

- **'Project Showcase' starting point** – jumpto.cc/web-showcase (<http://jumpto.cc/web-showcase>)

Children can also make use of this blank trinket (jumpto.cc/html-blank) (<http://jumpto.cc/html-blank>) to write their own HTML & CSS, or alternatively they can use this template trinket (jumpto.cc/html-template) (<http://jumpto.cc/html-template>).

There is also a trinket containing a sample solution to the challenges:

- **'Project Showcase Finished'** – trinket.io/html/5b815ab120 (<http://trinket.io/html/5b815ab120>)

Offline Resources

This project can be **completed offline** (<https://www.codeclubprojects.org/en-GB/resources/webdev-working-offline/>) if preferred. You can access the project resources by clicking the 'Project Materials' link for this project. This link contains a 'Project Resources' section, which includes resources that children will need to complete this project offline. Make sure that each child has access to a copy of these resources. This section includes the following files:

- project-showcase/index.html
- project-showcase/style.css
- template/template.html
- template/style.css

You can also find a completed version of this project's challenges in the 'Volunteer Resources' section, which contains:

- project-showcse-finished/index.html
- project-showcse-finished/style.css

(All of the resources above are also downloadable as project and volunteer **.zip** files.)

Note that if the children have completed their other projects offline then they won't be able to embed them but they will still be able to link to them.

Learning Objectives

- This project introduces text links to other webpages and to named ids within a page. It also introduces embedding trinkets and Scratch projects into a webpage.

This project covers elements from the following strands of the **Raspberry Pi Digital Making Curriculum** (<http://rpf.io/curriculum>):

- **Design basic 2D and 3D assets** (<https://www.raspberrypi.org/curriculum/design/creator>).

Challenges

- "Add another link" - Add links to more webpages;
- "Create a List of Your Projects" - Create links to previous web projects;
- "Embed More Projects" - Use CSS to create new styles.



Project materials

Project resources

- .zip file containing all project resources (<https://projects-static.raspberrypi.org/projects/project-showcase/6dba87d83a6c7ffce0cd4f2276a43d6079616bac/en/resources/showcase-project-resources.zip>)
- Online Trinket containing all 'Project Showcase' project resources (<http://jumpto.cc/web-showcase>)
- Online Trinket template (<http://jumpto.cc/trinket-template>)
- Online blank Trinket (<http://jumpto.cc/trinket-blank>)
- template/index.html (<https://projects-static.raspberrypi.org/projects/project-showcase/6dba87d83a6c7ffce0cd4f2276a43d6079616bac/en/resources/template-index.html>)
- template/style.css (<https://projects-static.raspberrypi.org/projects/project-showcase/6dba87d83a6c7ffce0cd4f2276a43d6079616bac/en/resources/template-style.css>)

- **project-showcase/index.html** (<https://projects-static.raspberrypi.org/projects/project-showcase/6dba87d83a6c7ffce0cd4f2276a43d6079616bac/en/resources/project-showcase-index.html>)
- **project-showcase/style.css** (<https://projects-static.raspberrypi.org/projects/project-showcase/6dba87d83a6c7ffce0cd4f2276a43d6079616bac/en/resources/project-showcase-style.css>)

Club leader resources

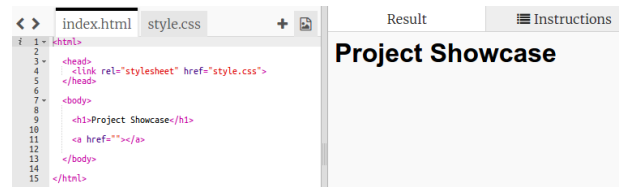
- **.zip file containing all completed project resources** (<https://projects-static.raspberrypi.org/projects/project-showcase/6dba87d83a6c7ffce0cd4f2276a43d6079616bac/en/resources/showcase-volunteer-resources.zip>)
- **Online completed Trinket project** (<https://trinket.io/html/1d4d4c5ce1>)
- **project-showcase-finished/index.html** (<https://projects-static.raspberrypi.org/projects/project-showcase/6dba87d83a6c7ffce0cd4f2276a43d6079616bac/en/resources/project-showcase-finished-index.html>)
- **project-showcase-finished/style.css** (<https://projects-static.raspberrypi.org/projects/project-showcase/6dba87d83a6c7ffce0cd4f2276a43d6079616bac/en/resources/project-showcase-finished-style.css>)

Step 2 Adding Links to Webpages

Text links allow you to click on words to go to another web page; they are usually underlined.

- Open this trinket: **jumpto.cc/web-showcase** (<http://jumpto.cc/web-showcase>).

The project should look like this:



- HTML uses the `<a>` tag for links.

hyperlink tag link text

```
<a href="https://www.codeclub.org.uk">Code Club</a>
```

website address

- Find the `<a>` tag in your project.

```
<h1>Project Showcase</h1>
```

```
<a href=""></a>
```

- Add the Code Club website address `https://www.codeclub.org.uk` (<https://www.codeclub.org.uk>) and link text:

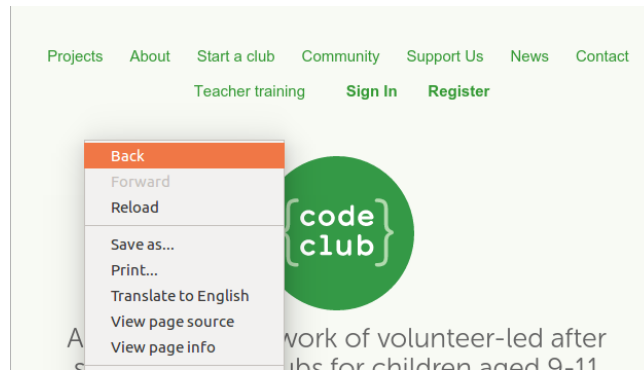
```
<h1>Project Showcase</h1>
<a href="https://www.codeclub.org.uk">Code Club</a>
```

- Click Run to test your trinket.

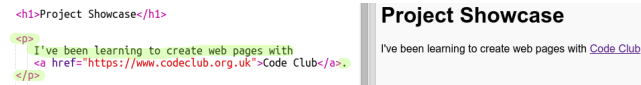
Project Showcase

[Code Club](https://www.codeclub.org.uk)

- Click on the Code Club link to test your webpage. Your trinket will now show the Code Club webpage:



- To get back to your page you can either:
 - Run your trinket again,
 - Tap the Backspace key on the keyboard, or
 - Right-click and choose Back.
- Now put your link into a sentence inside a paragraph:



Test your webpage.

Step 3 Challenge: Add another link

Add a sentence with a link to a website that has been helpful for creating web projects. For example: **https://trinket.io** (<https://trinket.io>) or **https://trinket.io/docs/colors** (<https://trinket.io/docs/colors>).



Step 4 Link to A Trinket

You can link to the web page for a trinket.

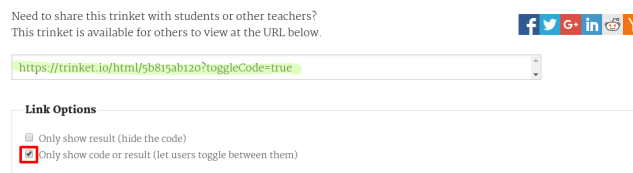
- Did you keep a link to your Happy Birthday trinket? If you did then open that trinket in another browser tab or window. Otherwise open the finished example trinket: <https://trinket.io/html/e996dc0380> (<https://trinket.io/html/e996dc0380>)
- Click on the Share menu above your trinket and choose Link:



If you opened the trinket from your account then look for the Share option above your trinket instead:



- Choose 'Only show code or result (let users toggle between them)' and copy the link to the trinket.



- Go back to your Project Showcase trinket and add an `<h2>` heading and a link to your Happy Birthday Project.



Test your webpage; it should look something like this:

Project Showcase

I've been learning to create web pages with [Code Club](#). I'm using the [trinket](#) editor.

Happy Birthday

The [Happy Birthday project](#).

Click the Happy Birthday link to test that it takes you to the trinket.

Step 5 Challenge: Create a List of Your Projects

Add some of the other HTML & CSS projects that you have created at Code Club. Use `<h2>` headings to organise your webpage.

If you don't have links to the projects you created then you can use the Code Club examples:

- Happy Birthday: <https://trinket.io/html/e996dc0380> (<https://trinket.io/html/e996dc0380>)
- Tell a Story: <https://trinket.io/html/c8afdef912> (<https://trinket.io/html/c8afdef912>)
- Wanted: <https://trinket.io/html/eb56398a> (<https://trinket.io/html/eb56398a>)
- Recipe: <https://trinket.io/html/c0fd9b40cd> (<https://trinket.io/html/c0fd9b40cd>)
- Mystery Letter: <https://trinket.io/html/1d4d4c5ce1> (<https://trinket.io/html/1d4d4c5ce1>)

Your finished page should look something like this:

Project Showcase

I've been learning to create web pages with [Code Club](#). I'm using the [trinket](#) editor.

Happy Birthday

The [Happy Birthday project](#).

Tell a Story

The [Tell a Story project](#).

Wanted

The [Wanted project](#).

Recipe

The [Recipe project](#).

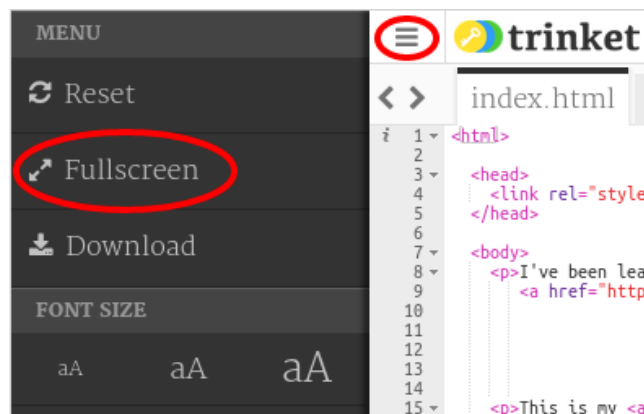
Anonymous Letter

The [Anonymous Letter project](#).

Step 6 Embedding Projects

As well as linking to trinkets as webpages we can also embed them in a web page.

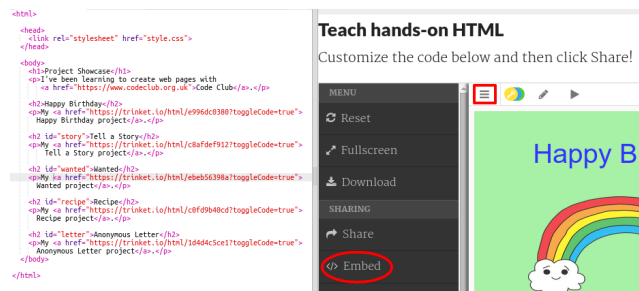
- You might want to try working in Fullscreen mode so you have more space:



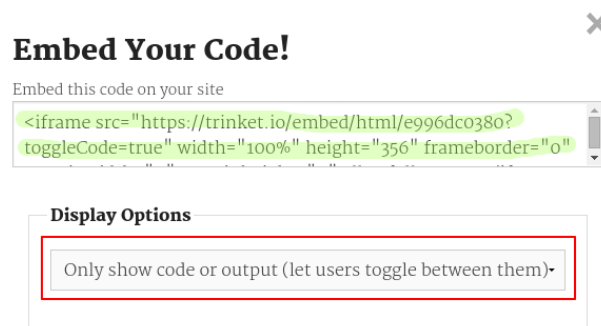
Press Esc to exit Fullscreen mode.

- Run your trinket and click on the Happy Birthday link.

- Click on the trinket menu and select **embed**. If you're not in Fullscreen mode you may have to scroll. Use the scroll bar on the right or the down arrow on the keyboard.



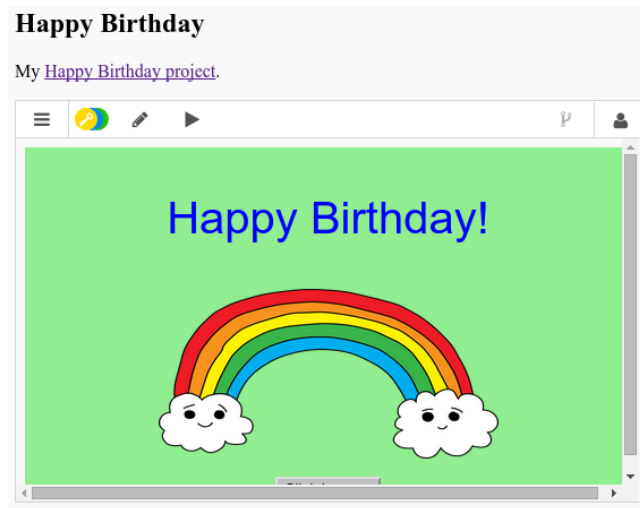
- Choose 'Only show code or result (let users toggle between them)' and **copy** the embed code for the trinket.



- Trinket has created some HTML for you to include in your webpage. It uses an `<iframe>` tag which allows content to be embedded within a page.
- Now paste that code under the link to the Happy Birthday trinket:

```
<h2>Happy Birthday</h2>
<p>My <a href="https://trinket.io/html/e996dc0380?toggleCode=true">
  Happy Birthday project</a></p>
<iframe src="https://trinket.io/embed/html/e996dc0380?toggleCode=true"
  width="100%" height="356" frameborder="0" marginwidth="0" marginheight="0" allowfullscreen></iframe>
```

- Run your trinket to test it and you should see your Happy Birthday project embedded in the webpage.



- You may find that the bottom of your trinket isn't displayed. You can fix that by changing the height value on the `<iframe>`.

```
<h2>Happy Birthday</h2>
<p>My <a href="https://trinket.io/html/e996dc0380?toggleCode=true">
  Happy Birthday project</a></p>
<iframe src="https://trinket.io/embed/html/e996dc0380?toggleCode=true"
  width="100%" height="356" frameborder="0" marginwidth="0" marginheight="0" allowfullscreen></iframe>
```

Set the height to **400**. If you made changes to the Happy Birthday project you might need to choose a different value.

```
<h2>Happy Birthday</h2>
<p>My <a href="https://trinket.io/html/e996dc0380?toggleCode=true">
  Happy Birthday project</a></p>
<iframe src="https://trinket.io/embed/html/e996dc0380?toggleCode=true"
  width="100%" height="400" frameborder="0" marginwidth="0" marginheight="0" allowfullscreen></iframe>
```

Step 7 Challenge: Embed More Projects

Embed more of your projects into the Showcase. Remember that you can easily find their trinket pages by clicking on the links on your webpage.

Step 8 Create a Table of Contents

Let's add a Table of Contents so we can easily get to each project.

- As well as being able to link to other webpages, we can link to parts of a webpage if we give them an id.

Add an id to the `<h2>` heading for the Happy Birthday project:

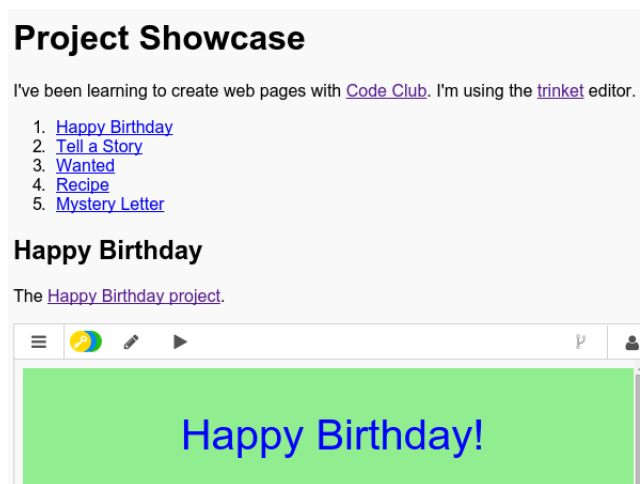
```
<h2 id="birthday">Happy Birthday</h2>
```

- Add ids to each of your projects and give them short names: story, wanted, recipe and letter.
- You can link to an element with an id by putting a hash '#' symbol in front of its name. For example, `#birthday`.

Create an ordered list of links to your projects. (Ordered lists are introduced in the Recipe project.)

```
<h1>Project Showcase</h1>
<p>I've been learning to create web pages with
  <a href="https://www.codeclub.org.uk">Code Club</a>.
  I'm using the <a href="https://trinket.io">trinket</a> editor.
</p>
<ol>
  <li><a href="#birthday">Happy Birthday</a></li>
  <li><a href="#story">Tell a Story</a></li>
  <li><a href="#wanted">Wanted</a></li>
  <li><a href="#recipe">Recipe</a></li>
  <li><a href="#letter">Mystery Letter</a></li>
</ol>
```

- Run your project and test it by clicking on the links to move to your projects.



Step 9 Getting Back to the Top

- It's also useful to be able to navigate back to the top of the page. HTML has `#top` for this purpose.
- Add a link to `#top` after each embedded project in your webpage:

```
<p>My <a href="https://trinket.io/html/e996dc0380?toggleCode=true">
Happy Birthday project</a></p>
<iframe src="https://trinket.io/embed/html/e996dc0380?toggleCode=true"
width="100%" height="400" frameborder="0" marginwidth="0" marginheight="0" allowfullscreen></iframe>
<a href="#top">Top</a>
```

- Test your links by clicking on Top to get back to the top of the page.

Step 10 Challenge: Improve Your Showcase

Use the CSS you have learnt to make your page more interesting. Try changing the background colour of the page or the font used for the headings.

You can also add some information about each project and what you liked about making it.

Step 11 Challenge: Create a New Showcase

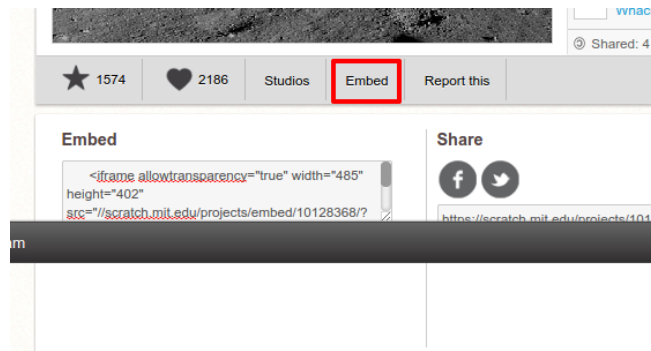
Trinkets aren't the only thing you can embed in a webpage. You can embed videos, widgets (such as a weather widget) or Scratch projects.

Open the Embed Scratch Example trinket and Run it:

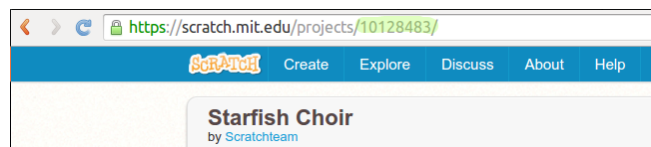
<https://trinket.io/html/9f7212b8fe> (<https://trinket.io/html/9f7212b8fe>
[e](#))

Go to the Scratch website and find a project that you like. It can be one of your own or one you've found.

If you are logged in you can click the 'Embed' button below the project to get the HTML embed code.



If you are not logged in then look for the Scratch project number in its web address.



Make a copy of the `<iframe>` code in the Scratch Embed example and change the project number to the one for the project you want to embed:

```
<iframe allowtransparency="true" width="485" height="402"
src="https://scratch.mit.edu/projects/embed/81096434/?autostart=false" frameborder="0" allowfullscreen></iframe>
```

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View project & license on GitHub (<https://github.com/RaspberryPiLearning/project-showcase>)