

Flip your card

Introduction

What you will make:

In this project you will make a card that flips with content on the front and back.



Flip cards help people to interact with a webpage. Flip cards also allow you to provide extra information in a small space or hide information that shouldn't be immediately visible. Some common examples of animated flip cards are revision cards, business cards, social media contact cards, and product cards.

You will:

- Use CSS animations to create a card that flips over when it is interacted with
- Apply a gradient background using CSS
- Add and use a font from Google Fonts

When you will hover your mouse on the front of the flip card it will automatically turn and show the back of flip card.

Front of flip card



Back of flip card

Lapis Sarawak

A cake baked in layers to make colourful patterns.

1. Create your card

In this step you will create an infocard for a tasty treat with an image, heading, and text.

Step 1:

Open the starter file to start the project. /rpf.io/webcard

Step 2:

The <title> tag within your code is used to display text in the title bar of your web browser. This text should be relevant to your webpage.

You can find the <title> in the <head> element at the top of your index.html file.

Step 3:

Change your title to Treat flip cards.

index.html

Step 4:

Click on the small triangle next to the <head> tag to collapse the <head>.

Step 5:

Add a <section> to the <main> part of your page.
Give the <section> a wrap class to make your webpage responsive.

index.html

26	<body></body>
27	
28	<main></main>
29	<section class="wrap"></section>
30	
31	

Graphic designers are people who create engaging physical or digital visual content. Some examples of graphic design work include company logos, product packaging, and website banner design. Our graphic designer Kate has made some images of treats from around the world for you to use in your project.

The <div> element is used to group other elements. The <div> element is used when there isn't a more appropriate tag, such as <section> and <blockquote>.

Step 6:

Click a <div> that contains an image. The first image is LapisSarawak02.png, a sweet treat from Malaysia.



Step 7:

Add another <div> with heading and short paragraph about Lapis Sarawak:

- Heading: Lapis Sarawak
- Paragraph: A cake baked in layers to make colourful patterns.

Step 8:

Test: Click the Run button.

View your webpage. You should be able to see an image of a Lapis Sarawak and your text that describes the image.

2.Flip your card

In this step you will make a card that flips with content on the front and back.

Use <div>< div> tags to structure your code and separate the main parts of the card:

- o The flip card
 - The viewable content
 - The front card face
 - The back card face

The **card** class has been created for you in **style.css**. The **card** class sets the width, height, and border of the card.

Step 1:

Add <div></div> tags around your current Lapis Sarawak code with the CSS class card.

The **card-content** class has been created for you in **style.css**. The **card-content** class controls the timing, perspective, and 3D effect of the flip.

Step 2:

Add another set of <div></div> tags inside your card with the CSS class card-content.

Step 3

Test: Click the **Run** button. Hover over (or tap) the card on your webpage. The content should flip over.

Step 4:

Add the **card-face** class to the **<div>** tag around the image. The card-face class tells the elements within it to hide when they are flipped to the back.

Step 5:

Test: Click the Run button.

Hover over (or tap) the card on your webpage. The image and text appear on the front of the card and are both hidden when the card is flipped.

You need the text to appear on the back card face and not on the front card face. Earlier when the text did appear on the back, it was flipped so the text could only be read backwards from right to left. You can solve both of these things with one piece of code.

Step 6:

Add the **flipme** class to the **div** tag around the heading and paragraph. This rotates the text 180 degrees so it is flipped to the back face and now can be read correctly.

Step 8:

Choose: Go to the **style.css** file and change the setting in the **card-content** class to use the timing you like best.

Change the seconds in the **transition: transform 1s;** line of code.

A cake baked in layers to make colourful patterns.

Step 7:

Test: Click the Run button.

Hover over (or tap) the card on your webpage to see your flip card.



Lapis Sarawak

A cake baked in layers to make colourful patterns.

style.css

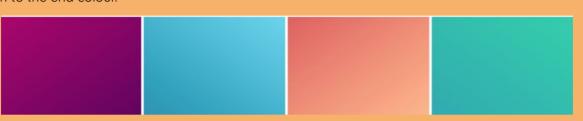
```
.card-content {
  position: relative;
  width: 100%;
  height: 100%;
  text-align: center;
  transition: transform 1s;
  transform-style: preserve-3d;
  perspective: 60rem;
}
```

3. Style your card

In this step you will add colour gradients and rounded corners to your card. You will also align the text so that it appears in the centre of the card.



Colour gradients are a gradual change from one colour to another. To process how to display a smooth colour gradient, computers work out the positions and colour shades needed to go from the starting colour through to the end colour.



Gradients are used to make your card attract the viewer's attention.

Step 1:

Add the **gradient1** class to the **<div>** that displays the image.

The **gradient1** class uses a linear gradient that transitions diagonally from one colour at the top to another colour at the bottom.



Step 2

Add the **gradient2** class to the **div** that displays the heading and paragraph.

The **gradient2** class uses a linear gradient that transitions diagonally from one colour at the top to another colour at the bottom right.



Step 3:

Test: Click the Run button.

Hover over (or tap) the card in your webpage to see that both gradients have been added.





Step 4:

Click on the **default.css** file and find the colour palette near the top of the page.

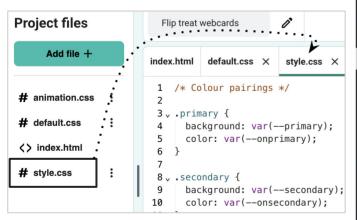


Choose: Colour gradients use variables from the colour palette. You can choose the gradients you like the best.

- 1. $\#7b4397 \rightarrow \#dc2430$
- 2. $\#43cea2 \rightarrow \#185a9d$
- 3. $\#bdc3c7 \rightarrow \#2c3e50$
- 4. #56ab2f → #a8e063
- 5. $\#eecda3 \rightarrow \#ef629f$
- 6. #000428 → #004e92



Step 6: Click on the style.css file and find the gradient1 and gradient2 classes.



Step 5:

Update the variables to see the front and back card faces in your new gradient:

- The front card face uses secondary and detail variables
- The back card face uses tertiary and detail2 variables

```
/* Set up colour palette and fonts usi
:root {
    --primary: #ffffff;
    --secondary: #aa076b;
    --tertiary: #43cea2;
    --page: #ffffff;
    --onprimary: #664300;
    --onsecondary: #664300;
    --ontertiary: #ffffff;
    --onpage: #000000;
    --detail: #ffb88c;
    --detail2: #185a9d;
```

Step 7:

Choose: Update the gradient to the direction you like best. Try top, right, or bottom left.

```
.gradient1 {
  background-image: linear-gradient(
    to bottom right,
    var(--secondary),
    var(--detail)
  );
  color: var(--onsecondary);
}
.gradient2 {
  background-image: linear-gradient(
    to bottom right,
    var(--tertiary),
    var(--detail2)
  );
  color: var(--ontertiary);
}
```

Step 7:

Click on index.html. Add the rounded class to both of your card faces to add rounded corners to your card.

The text on the card is not aligned correctly.



A cake baked in layers to make colourful patterns

Step 8:

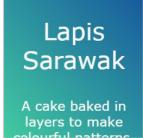
Add the **ycenter** class to align the text in the centre along the y axis.

Step 9:

Test: Click the **Run** button.

Hover over (or tap) the card in your webpage to check that the text on the second face is aligned in the centre of the y axis.





Step 10:

Use the shadow class to add a shadow effect to both sides of your card.

Step 11:

Test: Click the Run button.

Hover over (or tap) the card in your webpage to check that the card now has a shadow effect.





4. Choose your font

You will now use Google's online font library to import a decorative font into your webpage.

Web designers need to consider how a website looks and how it reflects the brand of the company, product, or person that they design the website for. Standard web safe fonts are recommended for the majority of text on a webpage. When a designer wants to create an impact, a more unique font can be used. Designers can import **web fonts** from an online font library to make their website attract people's attention.

Web designers carefully consider the font styles for their website. The **three** most common categories of font are:

- Library fonts
- Web safe fonts
- Fallback fonts

Library fonts are typically imported from a third-party library such as <u>Google Fonts</u> (<u>rpf.io/fonts</u>). Companies sometimes pay a fee to use a font as part of their website branding.

Web safe fonts are standard fonts that should be available through any web browser. However, you can never be 100% sure that this is the case. Here is a list of web safe fonts:

- Arial
- Verdana
- Helvetica
- o Tahoma
- Trebuchet MS

- o Times New Roman
- Georgia
- Garamond
- Courier New
- Brush Script MT

Fallback fonts are generic font families that are used to match the styling that the web designer would like to use. The main font families are:

- Serif: a font style typically used in print publishing, letters have tiny decorative edges called 'serifs'
- Sans-serif: a clean screen-readable font without the decorative edges
- Monospace: a font where each character uses the same width of space
- Cursive: a handwriting font
- Fantasy: a decorative font typically used for big headings

If a fallback font isn't listed, then the web browser uses the browser's default font, which is typically Times New Roman.

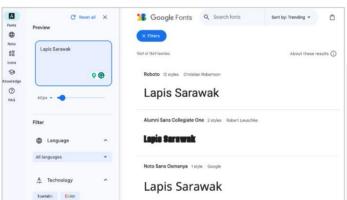
Step 1:

Type rpf.io/fonts in a new browser to open google fonts page.

Step 2:

Type some sample text in the **Preview** box. The example uses the treat name in this project, **Lapis**

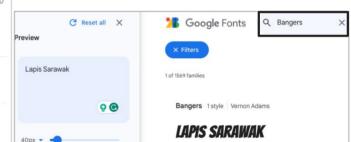
Sarawak.



Step 3:

There are many different search filters to use. You can search by language, or different font properties.

Enter the font name **Bangers** into the 'search fonts' box.



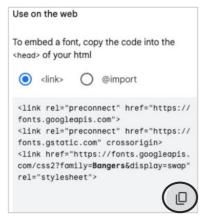
Step 4:

Click on the Bangers card that has appeared in the search results.



Step 5:

Click the copy icon to copy the HTML code.



Step 5:

Click on the 'Select' link (our example shows 'Select Regular 400').



Step 6:

Expand the <head> section of index.html, if it is collapsed.

Find the comment in your index.html document that says <!-- Import fonts from Google -->.

Step 7:

Paste the HTML code that you have just copied below the comment.

You have now imported the fonts that you need from the Google Fonts library. Next, add in the correct CSS so that the web browser knows when to use this font.

Step 8:

Go to your default.css file and find the header-font and title-font variables. Replace the current font Verdana with Bangers.

```
--body-font: 1.1rem Verdana, sans-serif;
--header-font: lighter 3rem Bangers, cursive;
--title-font: lighter 2rem Bangers, cursive;
```

Step 9:

Test: Click the Run button.

Hover over (or tap) your flip card in the preview pane. You should see your new font applied to the heading of the back of the card.





Choose: To choose your own font, go back to <u>rpf.io/fonts</u>

Remove the Bangers style in Google Fonts before you select your new font.

Tip Don't forget to update your default.css file to include the new font name.