# show the second digital second digit

#### what we \*are\* making

A custom snowglobe that you can take anywhere

A memory you can treasure forever <3

Unlimited hours of entertainment

#### what we're \*not\* making

A catapult that will tear apart the space-time continuum

A high-yield hydroponic garden

A DIY Tiny House

#### it's not rocket science



### why make a snowglobe.









visit

hack.af/SGTemplate

to get started



## Guickstart guickstart

visit

hack.af/SGNotes

to get the code snippets



## making it stylish





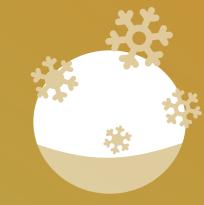
By default, web pages have preset margin and padding... We'll fix that up.





#### 2) body basics

Next, we'll set up the body structure using flexbox, center the content, and fill the page.





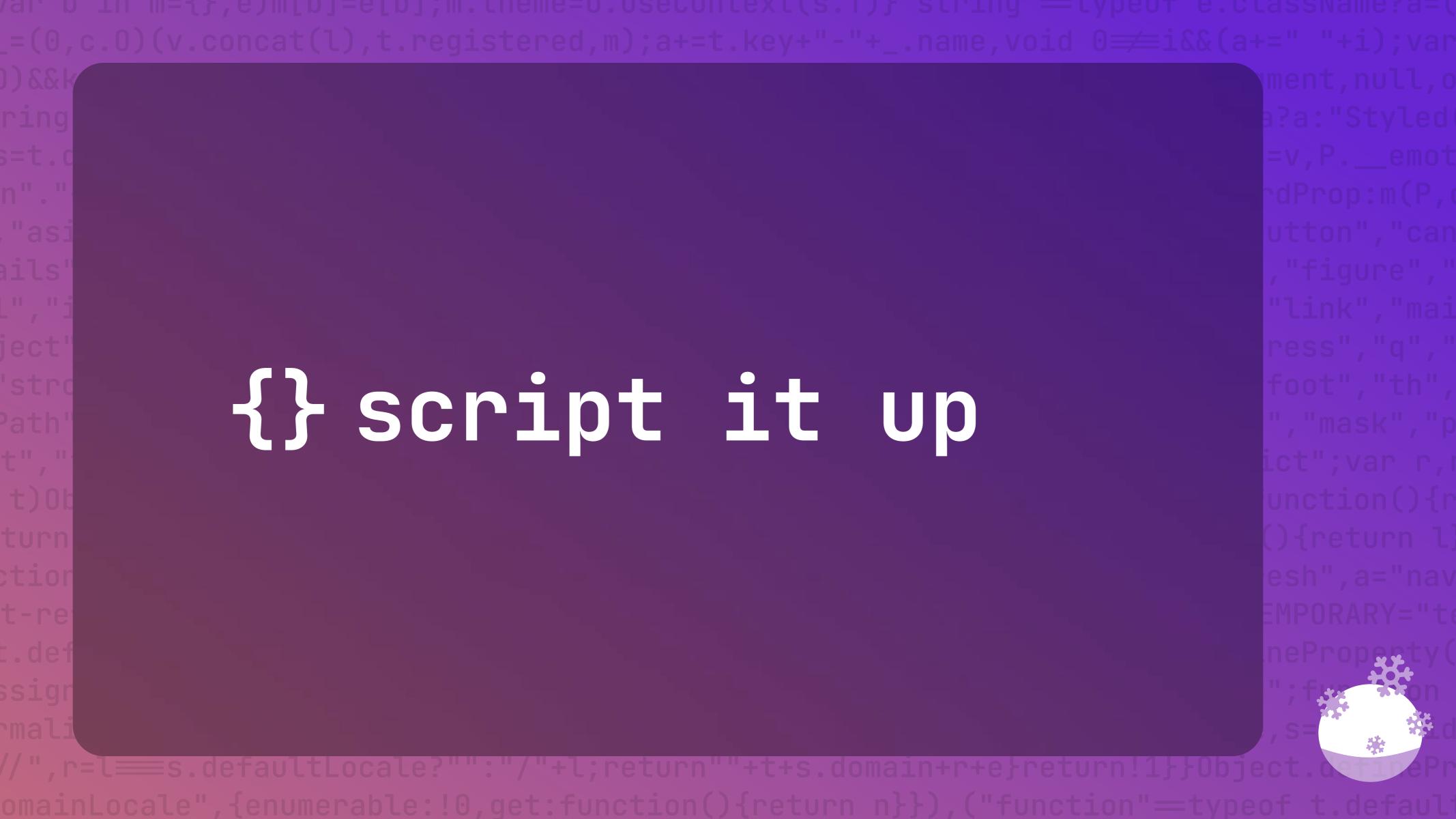
#### 3) stylish snow

Now, we'll set the size of the snowglobe, its background, spacing, and add a faint glow.



# 3) breaking in Finally, we'll set the area of the particles and ground.





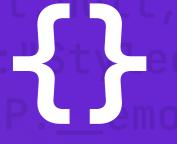
#### 1. declarations

To start, we'll declare some simple variables and select some elements.



#### 2. in motion (p1)

Next, we'll write a quick function to calculate magnitude... we'll use this later.



### 3. shake it up (p1)

Now, we'll write the function that runs when our snowglobe is "shaken"



#### 4. choices, choices

Next, we'll load the configuration options for tsParticles



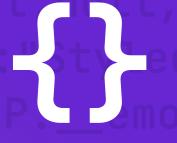
#### 5. shake it up (p2)

Next, we'll add the event listener that triggers snow when the globe is clicked.



#### 5. in motion (p2)

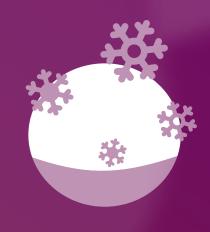
Finally, we'll add the event listener that triggers snow when the device is shaken.



#### 1. set the scene

First, we'll cover how to set an image background





```
#snowglobe {
  background: url('/background.jpg') center/cover;
}
```

(center crops the center of the image, cover fills the whole space with the image)

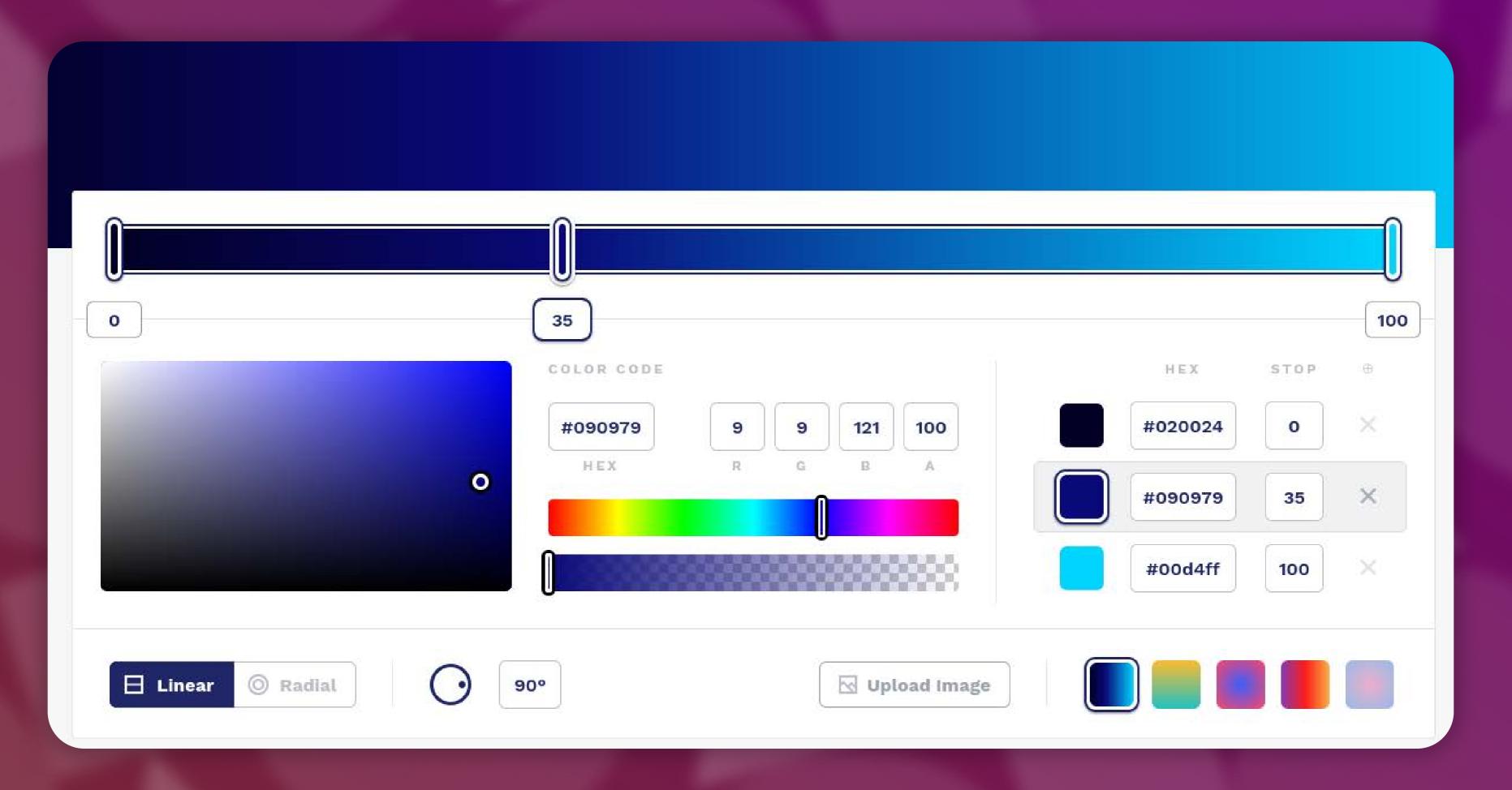


#### 1. set the scene

Now, we'll cover how to set a gradient background

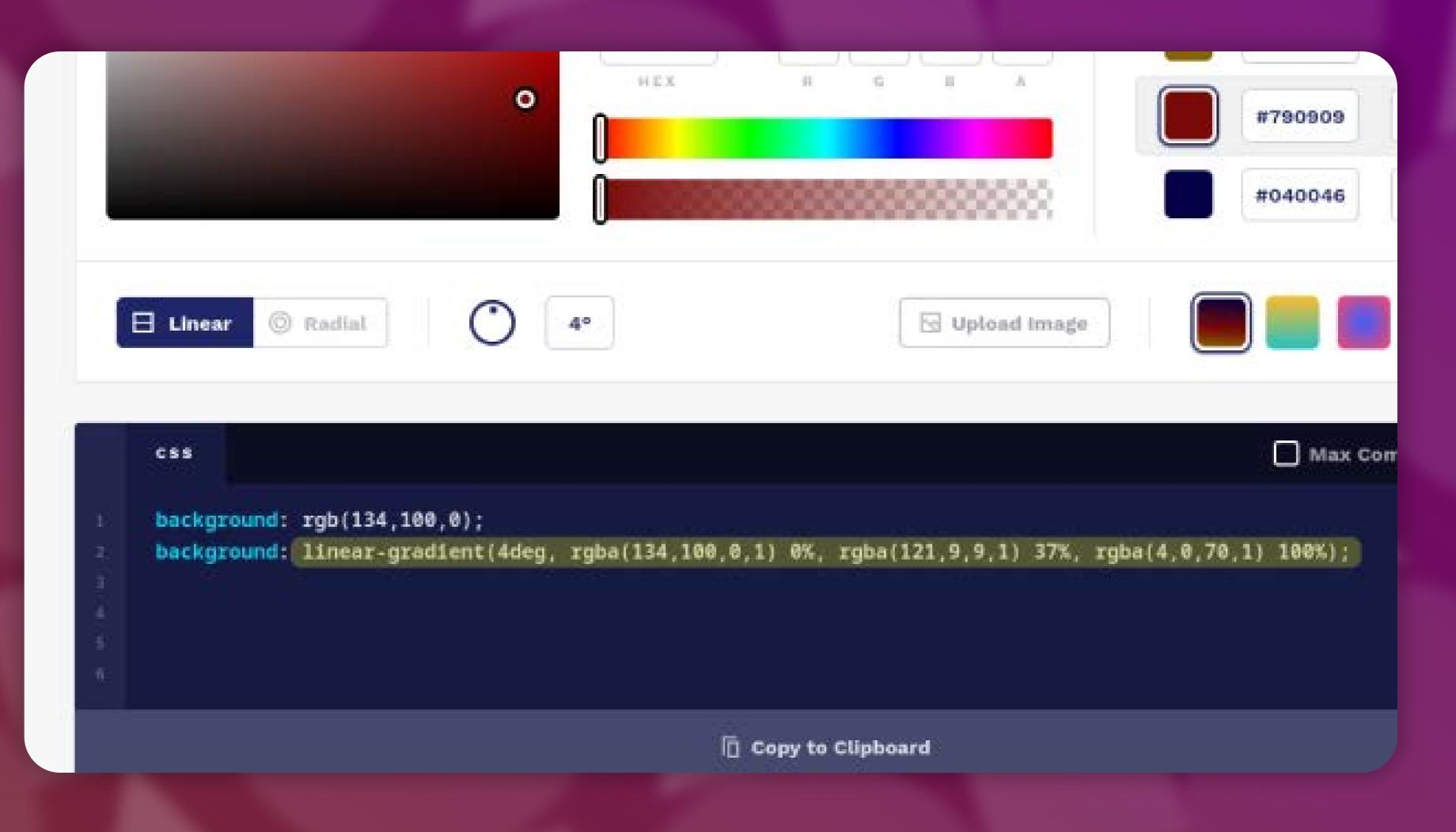
















```
#snowglobe {
  background: linear-gradient(4deg, #000, #111 100%);
}
```

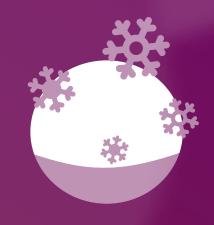
Replace this with your custom linear gradient code from cssgradient.io



## 2. raining, pouring

Next, we'll cover how to change the colour, shape, and density of what's falling

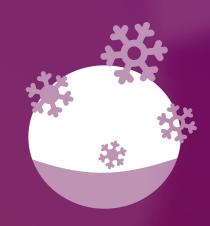




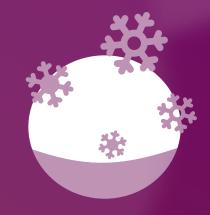
```
particles: {
  colors: {
     value: '#000000' ← Change this to the
                          color you want
```



```
particles: {
  shape: {
     type: 'circle' ← Change this to square,
                         circle, or triangle.
```



```
particles: {
   number: {
      value: '400' ← Change this number to
                      the number of your choice.
```



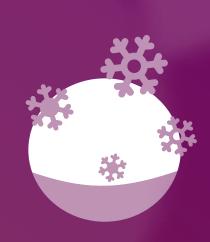
#### 3. Twinkle, twinkle

Let's spice it up and add some music





```
<audio id="music">
  <source src="audio.ogg" type="audio/ogg"></source>
  </audio>
```



```
let music = document.getElementById('music')
...
function shakeItUp() {
...
audio.play()
}
```

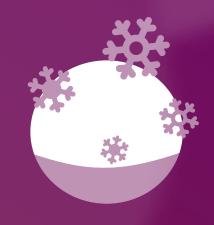




#### 4. it's an app!

Finally, let's take this site to the next level and turn it into an app!





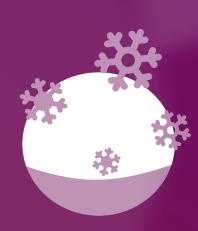


- Uses smaller technologies to make one big web app
- Allows your app to run in the background with service workers
- Ties your app into a neat little package that's installable





```
\leftarrow! PWA Stuff \longrightarrow
 <link rel="apple-touch-icon" sizes="180x180" href="/apple-</pre>
touch-icon.png">
 favicon-32x32.png">
 favicon-16x16.png">
 <link rel="manifest" href="/manifest.json">
 <link rel="mask-icon" href="/safari-pinned-tab.svg"</pre>
color="#3063ac">
 <meta name="apple-mobile-web-app-title" content="Snowglobe">
 <meta name="application-name" content="Snowglobe">
 <meta name="msapplication-TileColor" content="#2b5797">
 <meta name="theme-color" content="#2e2e2e">
```



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