

Styling a Web Page with CSS

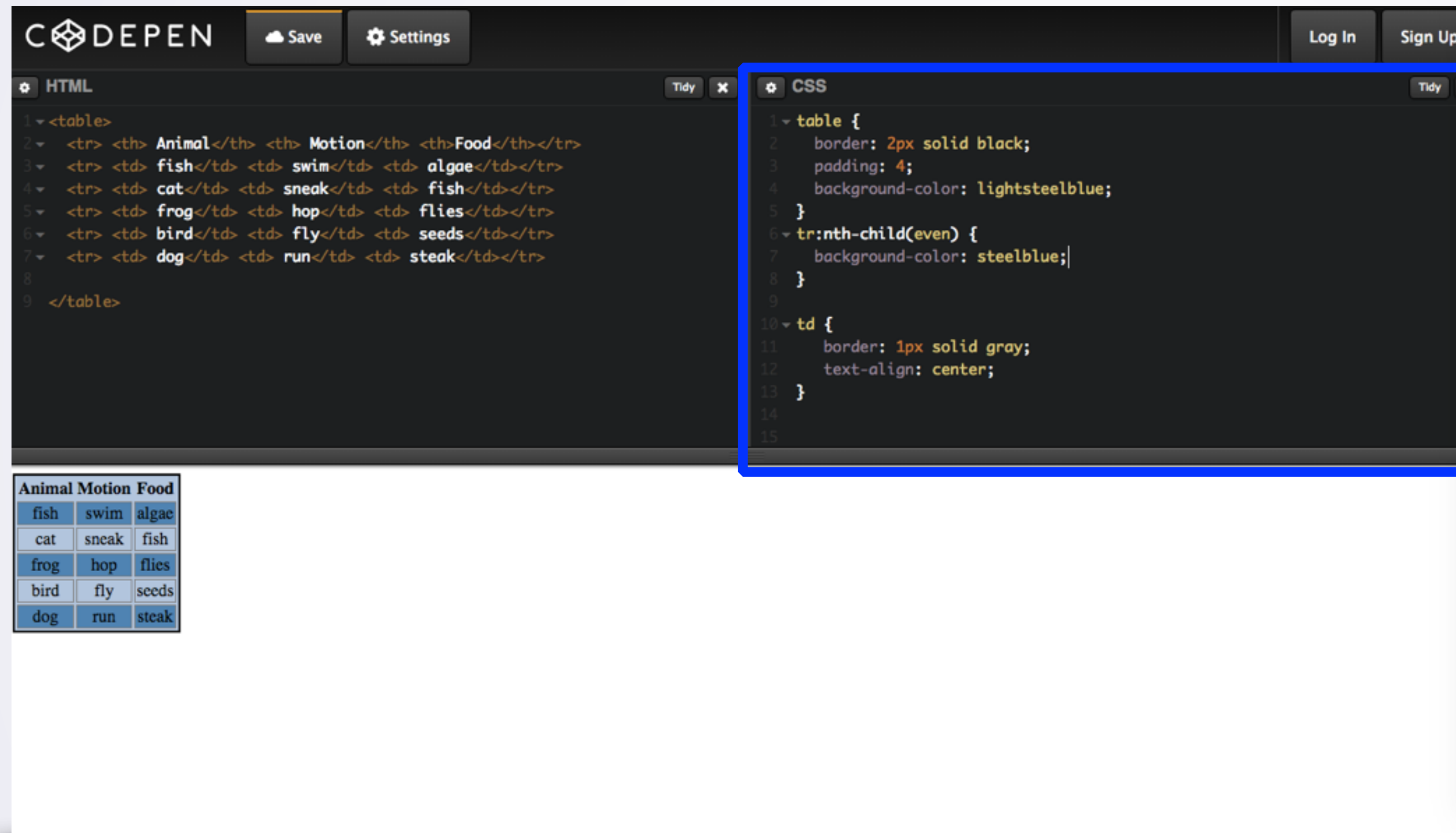
CSS Basics

CSS

- Last time: Why CSS?
 - Reusability
 - Maintainability
- This time: How to write your own

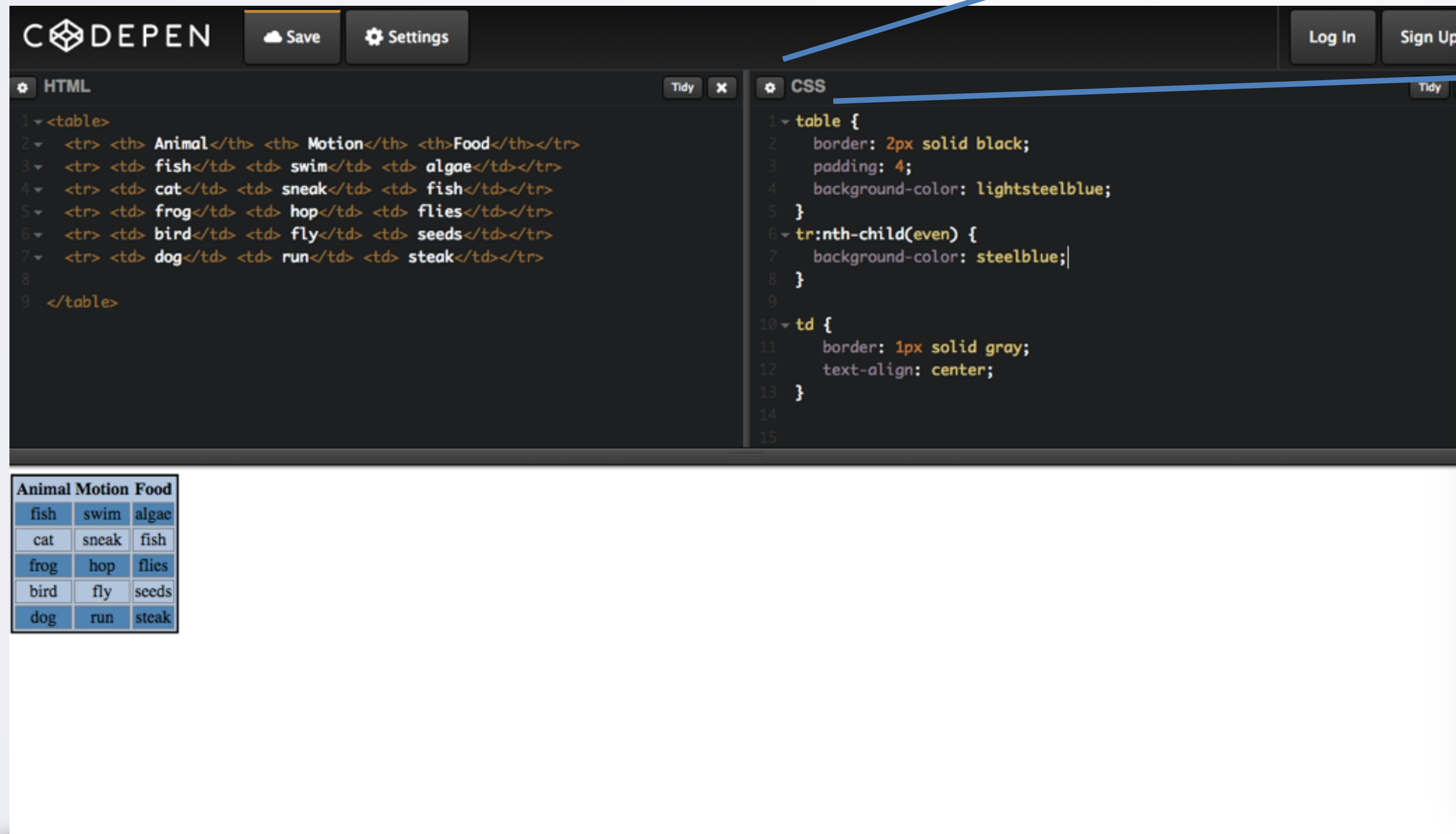
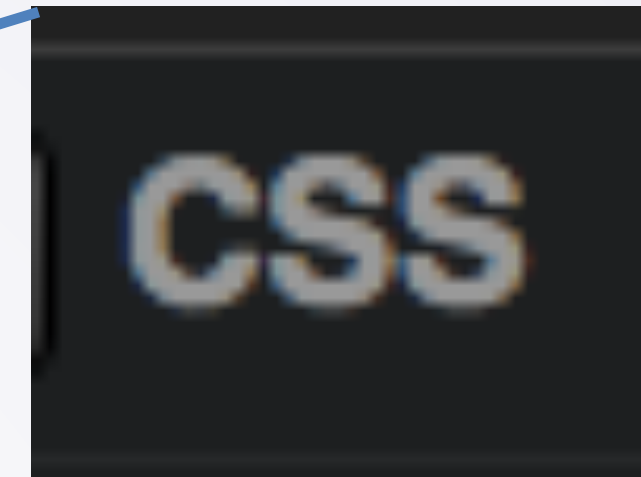
Where to Write CSS

- CodePen: CSS Pane



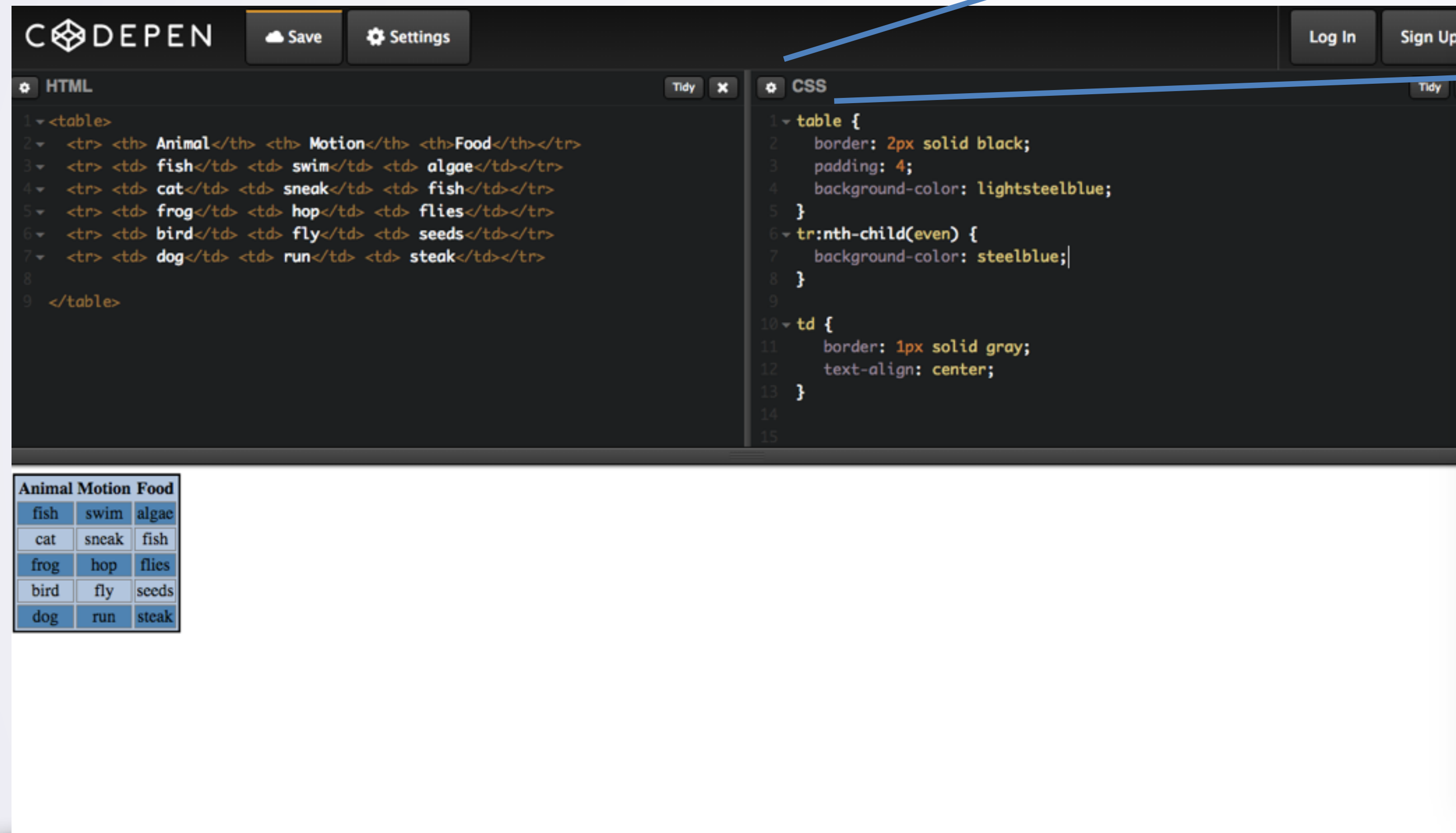
Where to Write CSS

- CodePen: CSS Pane



Where to Write CSS

- CodePen: CSS Pane



- From scratch: `<style>` or `<link>`

CSS: Change Styles



The screenshot shows the CodePen interface with the HTML editor on the left and the CSS editor on the right. The HTML editor contains the following code:

```
1 <h1>My Favorite Foods</h1>
2 I like a lot of delicious food,
  some of my favorites are
3 <ul>
4   <li> Chocolate
5   <li> Cherries
6   <li> Ice Cream
```

The CSS editor is empty. The preview window at the bottom shows the rendered HTML: a heading "My Favorite Foods" and a paragraph "I like a lot of delicious food, some of my favorites are" followed by a bulleted list of "Chocolate", "Cherries", and "Ice Cream".



The screenshot shows the CodePen interface with the HTML editor on the left and the CSS editor on the right. The HTML editor contains the same code as the previous screenshot. The CSS editor now contains the following code:

```
1 h1 {
2   text-align: center;
3   color: blue;
4 }
```

The preview window at the bottom shows the rendered HTML with the heading "My Favorite Foods" now centered and colored blue, while the rest of the page remains unchanged.

- Change styles of elements
- Example: `<h1>` blue and centered

CSS Syntax

```
h1 {  
    text-align: center;  
    color: blue;  
}
```

- Let's look at the CSS in detail

CSS Syntax

```
h1 {  
    text-align: center;  
    color: blue;  
}
```

Selector: what element to format

- Let's look at the CSS in detail

CSS Syntax

```
h1 {  
  text-align: center;  
  color: blue;  
}
```

Curly braces around formatting for that element

- Let's look at the CSS in detail

CSS Syntax


```
h1 {  
    text-align: center;  
    color: blue;  
}
```

Property to change

- Let's look at the CSS in detail

CSS Syntax

```
h1 {  
  text-align: center;  
  color: blue;  
}
```

A blue circle highlights the colon in the 'text-align: center;' line. A horizontal blue line extends from the circle to the right, ending under the word 'Colon'.

- Let's look at the CSS in detail

CSS Syntax

```
h1 {  
  text-align: center;  
  color: blue;  
}
```

Value

- Let's look at the CSS in detail

CSS Syntax

```
h1 {  
  text-align: center;  
  color: blue;  
}
```

Semicolon

- Let's look at the CSS in detail

CSS Syntax

```
h1 {  
    text-align: center;  
    color: blue;  
}
```

- Let's look at the CSS in detail
- Many properties

<https://developer.mozilla.org/en-US/docs/Web/CSS/Reference>

CSS: Select Some Elements

```
li {  
  color: green;  
}
```

CSS: Select Some Elements

```
li {  
    color: green;  
}
```

- Makes **all** s green
- What if we want some green?
- Three approaches

CSS: Classes

- Classes: named styles

- HTML

```
<li class="foodLi"> Chocolate </li>
```

```
<li class="foodLi"> Cherries </li>
```

```
<li class="foodLi"> Ice Cream </li>
```

- CSS:

```
.foodLi {  
    color : green;  
}
```

CSS: Classes

- Classes: named styles

- HTML

```
<li class="foodLi"> Chocolate </li>
```

```
<li class="foodLi"> Cherries </li>
```

```
<li class="foodLi"> Ice Cream </li>
```

- CSS:

 .foodLi { **Dot: Making a class**

```
    color : green;  
}
```


CSS: Classes

- Classes: named styles

- HTML

```
<li class="foodLi"> Chocolate </li>
```

```
<li class="foodLi"> Cherries </li>
```

```
<li class="foodLi"> Ice Cream </li>
```

- CSS:

```
.foodLi { Class name: anything you want  
    color : green;  
}
```

CSS: Classes

- Classes: named styles

Specify class in HTML

- HTML

```
<li class="foodLi"> Chocolate </li>
```

```
<li class="foodLi"> Cherries </li>
```

```
<li class="foodLi"> Ice Cream </li>
```

- CSS:

```
.foodLi {  
    color : green;  
}
```

CSS: IDs

- IDs: Name **one** element

- HTML:

```

```

- CSS:

```
#cakeImg {  
    float:right;  
}
```

CSS: Combinators

- Combinators: Select by relationship
 - Style inside of :
 - `ul li { ... }`
 - More advanced relationships exist

Classes and IDs: Name and Reuse

- Class and ID: name style
 - Re-use as needed
 - Many elements in one page
 - Across pages
 - Name + use: recurring concept in CS

CSS Basics

- Writing CSS in CodePen
- CSS Syntax
 - `selector { property : value ; }`
- Classes and IDs
 - Name and re-use