Name - Abhishek Sharma
Submitted on: 12/08/2023
Batch - FS-12
Subject - Assignment - 6 Flex-Box Froggy Game
Task :

1. **Flex Direction:**

This property determines the primary axis along which the flex items will be laid out within their container. It has four possible values:

- `row`: Items are placed horizontally from left to right.

- `row-reverse`: Items are placed horizontally from right to left.

- `column`: Items are placed vertically from top to bottom.

- `column-reverse`: Items are placed vertically from bottom to top.

2. **Justify Content:**

This property defines how the flex items are distributed along the main axis (determined by the `flex-direction`). It controls the alignment of items when there is extra space available in the container. Possible values include:

- `flex-start`: Items are aligned at the start of the container.

- `flex-end`: Items are aligned at the end of the container.

- `center`: Items are centered along the main axis.

- `space-between`: Items are evenly spaced with the first item at the start and the last item at the end.

- `space-around`: Items are evenly spaced with equal space before the first item and after the last item.

- `space-evenly`: Items are evenly spaced with equal space between them.

3. **Align Items:**

This property determines how the flex items are aligned along the cross axis (perpendicular to the main axis). It's particularly useful when the `flex-direction` is set to `row`. Possible values include:

- `flex-start`: Items are aligned at the start of the cross axis.
- `flex-end`: Items are aligned at the end of the cross axis.
- `center`: Items are centered along the cross axis.
- `baseline`: Items are aligned based on their baselines.
- `stretch`: Items are stretched to fill the container's cross axis.

4. **Flex Wrap:**

This property controls whether the flex items should wrap into multiple lines if they can't fit within the container's width. Possible values are:

- `nowrap`: Items are all on one line (the default behavior).
- `wrap`: Items wrap onto multiple lines if necessary.
- `wrap-reverse`: Items wrap onto multiple lines in reverse order.

5. **Flex Grow/Shrink:**

These properties control how much an item should grow or shrink relative to the other items in the container. `flex-grow` determines the proportion of available space the item should take up, while `flex-shrink` determines how much an item should shrink if the container is too small.

6. **Gap:**

The `gap` property sets the space between the flex items. It's a shorthand for setting both the row-gap and column-gap (if applicable). It's similar to using margins between items but doesn't affect the sizing of the items themselves.

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align-self: flex-end;

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FLEXBOX FROGGY

Level 1 of 24

Welcome to Flexbox Froggy, a game where you help Froggy and friends by writing CSS code! Guide this frog to the lilypad on the right by using the `justify-content` property, which aligns items horizontally and accepts the following values:

- `flex-start`: Items align to the left side of the container.
- `flex-end`: Items align to the right side of the container.
- `center`: Items align at the center of the container.
- `space-between`: Items display with equal spacing between them.
- `space-around`: Items display with equal spacing around them.

For example, `justify-content: flex-end;` will move the frog to the right.

```
1  #pond {
2    display: flex;
3    justify-content: flex-end;
4  }
5
6
7
8
9
10
```

Next

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align-self: flex-end;

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FLEXBOX FROGGY

Level 2 of 24

Use `justify-content` again to help these frogs get to their lilypads. Remember that this CSS property aligns items horizontally and accepts the following values:

- `flex-start`: Items align to the left side of the container.
- `flex-end`: Items align to the right side of the container.
- `center`: Items align at the center of the container.
- `space-between`: Items display with equal spacing between them.
- `space-around`: Items display with equal spacing around them.

```
#pond {
  display: flex;
  justify-content: center;
}
```

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FLEXBOX FROGGY

Level 3 of 24

Help all three frogs find their lilypads just by using `justify-content`. This time, the lilypads have lots of space all around them.

If you find yourself forgetting the possible values for a property, you can click on the property name to view them. Try clicking on `justify-content`.

```
#pond {
  display: flex;
  justify-content: space-around;
}
```

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FLEXBOX FROGGY

Level 4 of 24

Now the lilypads on the edges have drifted to the shore, increasing the space between them. Use `justify-content`. This time, the lilypads have equal spacing between them.

```
#pond {
  display: flex;
  justify-content: space-between;
}
```

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FLEXBOX FROGGY

Level 5 of 24

Now use `align-items` to help the frogs get to the bottom of the pond. This CSS property aligns items vertically and accepts the following values:

- `flex-start`: Items align to the top of the container.
- `flex-end`: Items align to the bottom of the container.
- `center`: Items align at the vertical center of the container.
- `baseline`: Items display at the baseline of the container.
- `stretch`: Items are stretched to fit the container.

```
#pond {
  display: flex;
  align-items: flex-end;
}
```

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FLEXBOX FROGGY

Level 6 of 24

Lead the frog to the center of the pond using a combination of `justify-content` and `align-items`.

```
#pond {
  display: flex;
  justify-content: center;
    align-items: center;
}
```

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FLEXBOX FROGGY

Level 7 of 24

The frogs need to cross the pond again, this time for some lilypads with plenty of space around them. Use a combination of `justify-content` and `align-items`.

```
#pond {
  display: flex;
  align-items: flex-end;
    justify-content: space-around;
}
```

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FLEXBOX FROGGY

Level 8 of 24

The frogs need to get in the same order as their lilypads using `flex-direction`. This CSS property defines the direction items are placed in the container, and accepts the following values:

- `row`: Items are placed the same as the text direction.
- `row-reverse`: Items are placed opposite to the text direction.
- `column`: Items are placed top to bottom.
- `column-reverse`: Items are placed bottom to top.

```
#pond {
  display: flex;
  flex-direction: row-reverse;
}
```

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FLEXBOX FROGGY

Level 9 of 24

Help the frogs find their column of lilypads using `flex-direction`. This CSS property defines the direction items are placed in the container, and accepts the following values:

- `row`: Items are placed the same as the text direction.
- `row-reverse`: Items are placed opposite to the text direction.
- `column`: Items are placed top to bottom.
- `column-reverse`: Items are placed bottom to top.

```
#pond {
  display: flex;
  flex-direction: column;
}
```

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FLEXBOX FROGGY

Level 10 of 24

Help the frogs get to their own lilypads. Although they seem close, it will take both `flex-direction` and `justify-content` to get them there.

Notice that when you set the direction to a reversed row or column, start and end are also reversed.

```
#pond {
  display: flex;
  flex-direction: row-reverse;
    justify-content: flex-end;
}
```

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align-self: flex-end;

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FLEXBOX FROGGY

Level 11 of 24

Help the frogs find their lilypads using `flex-direction` and `justify-content`.

Notice that when the flex direction is a column, `justify-content` changes to the vertical and `align-items` to the horizontal.

```
#pond {
  display: flex;
    flex-direction: column;
    justify-content: flex-end;
}
```

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align-self: flex-end;

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FLEXBOX FROGGY

Level 12 of 24

Help the frogs find their lilypads using `flex-direction` and `justify-content`.

```
#pond {
  display: flex;
    flex-direction: column-reverse;
    justify-content: space-between;
}
```

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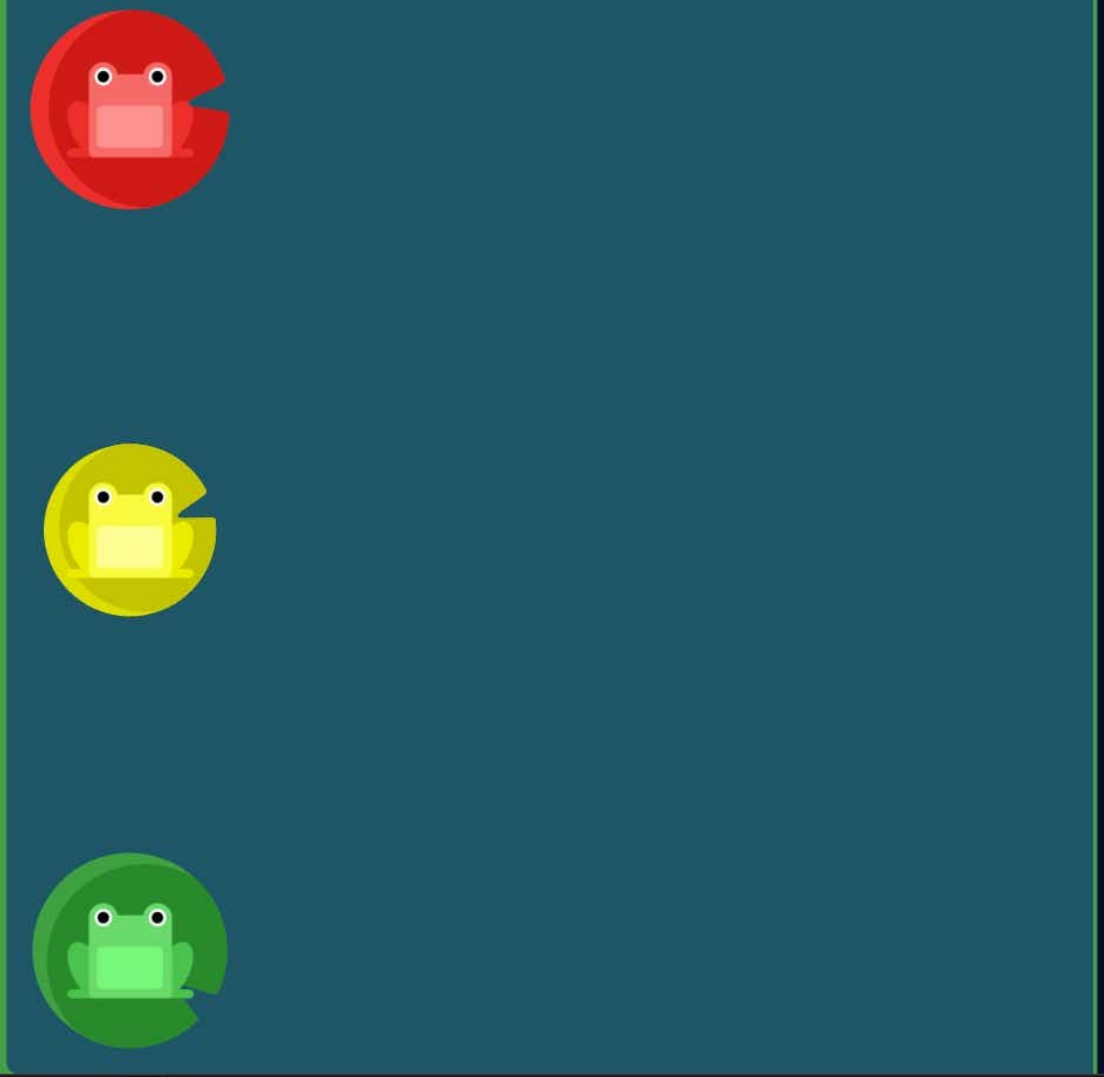

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align-self: flex-end;

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FLEXBOX FROGGY

Level 13 of 24

Help the frogs find their lilypads using `flex-direction`, `justify-content`, and `align-items`.

```
#pond {
  display: flex;
    flex-direction: row-reverse;
    justify-content: center;
    align-items: flex-end;
}
```

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FLEXBOX FROGGY

Level 14 of 24

Sometimes reversing the row or column order of a container is not enough. In these cases, we can apply the `order` property to individual items. By default, items have a value of 0, but we can use this property to also set it to a positive or negative integer value (-2, -1, 0, 1, 2).

Use the `order` property to reorder the frogs according to their lilypads.

```
#pond {
  display: flex;
}

.yellow {
  order: 1;
}
```

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align-self: flex-end;

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FLEXBOX FROGGY

Level 15 of 24

Use the `order` property to send the red frog to his lilypad.

```
#pond {
  display: flex;
}

.red {
  order: -1;
}
```

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align-self: flex-end;

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FLEXBOX FROGGY

Level 16 of 24

Another property you can apply to individual items is `align-self`. This property accepts the same values as `align-items` and its value for the specific item.

```
#pond {
  display: flex;
  align-items: flex-start;
}

.yellow {
  align-self: flex-end;
}
```

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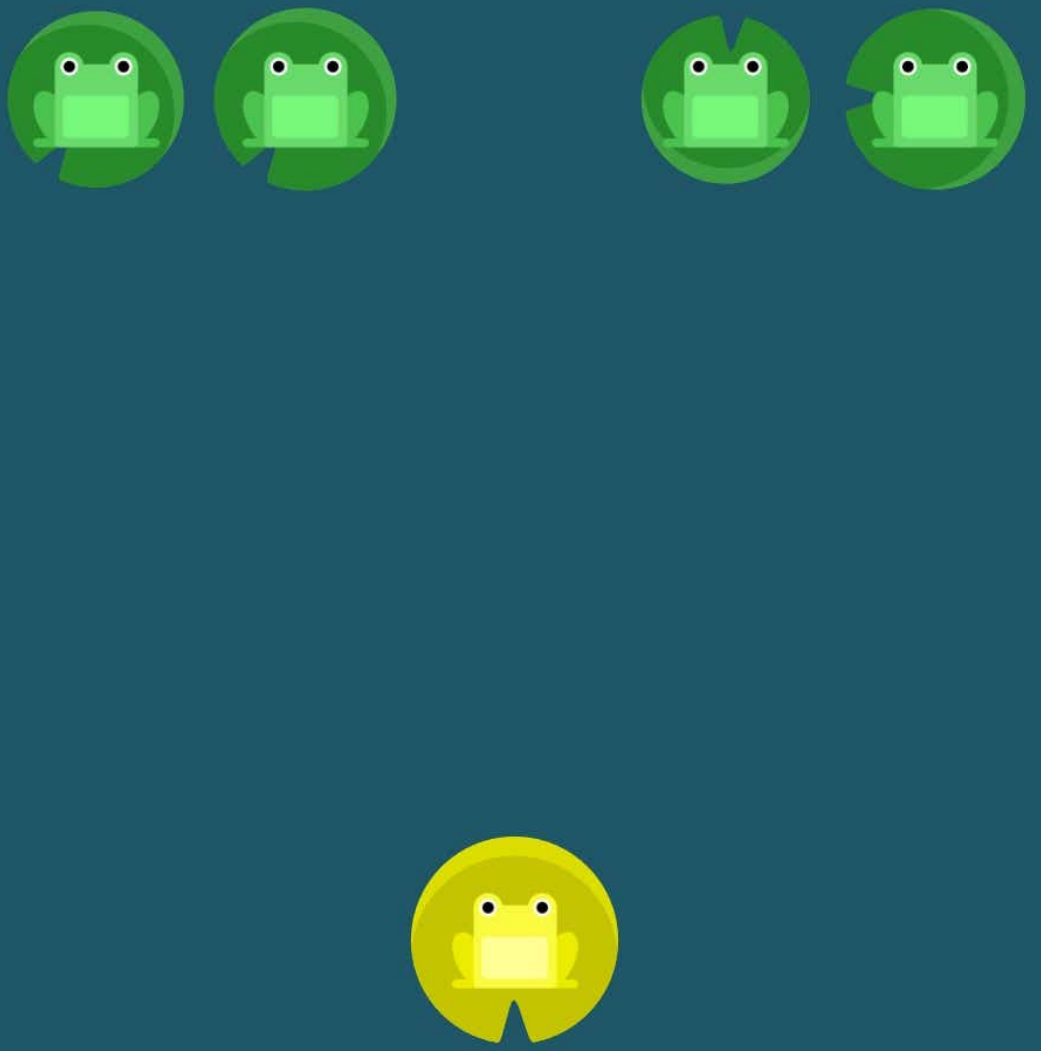

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align-self: flex-end;

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FLEXBOX FROGGY

Level 17 of 24

Combine `order` with `align-self` to help the frogs to their destinations.

```
#pond {
  display: flex;
  align-items: flex-start;
}

.yellow {
    order: 1;
    align-self: flex-end;
}
```

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align-self: flex-end;

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FLEXBOX FROGGY

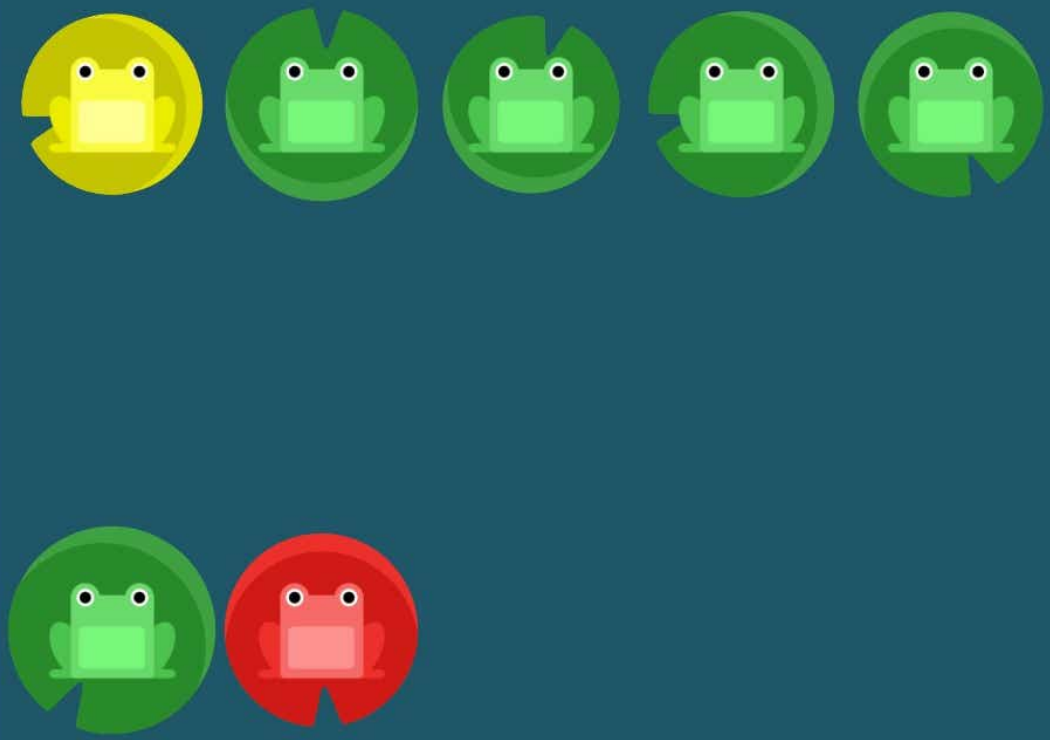
Level 18 of 24

Oh no! The frogs are all squeezed onto a single row of lilypads. Spread them out using the `flex-wrap` property, which accepts the following values:

- `nowrap`: Every item is fit to a single line.
- `wrap`: Items wrap around to additional lines.
- `wrap-reverse`: Items wrap around to additional lines in reverse.

```
#pond {
  display: flex;
  flex-wrap: wrap;
}
```

Next



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align-self: flex-end;

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FLEXBOX FROGGY

Level 19 of 24

Help this army of frogs form three orderly columns using a combination of `flex-direction` and `flex-wrap`.

```
#pond {
  display: flex;
    flex-direction: column;
    flex-wrap: wrap;
}
```

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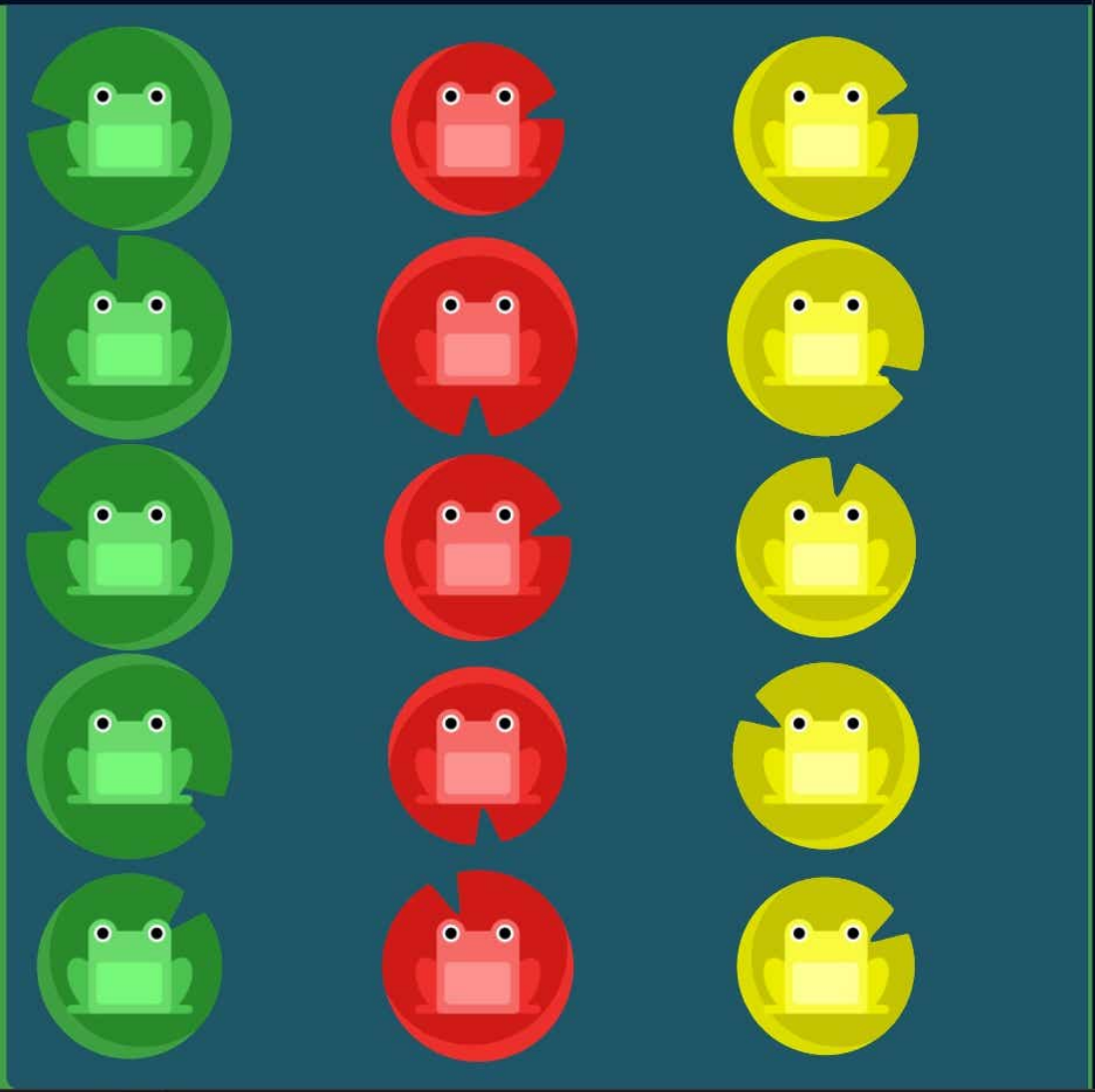

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align-self: flex-end;

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FLEXBOX FROGGY

Level 20 of 24

The two properties `flex-direction` and `flex-wrap` are used so often together that the shorthand property `flex-flow` was created to combine them. This shorthand property accepts the value of the two properties separated by a space.

For example, you can use `flex-flow: row wrap` to set rows and wrap them.

Try using `flex-flow` to repeat the previous level.

```
1  #pond {
2    display: flex;
3     flex-flow: column wrap;
4  }
5
6
7
8
9
10
```

Next

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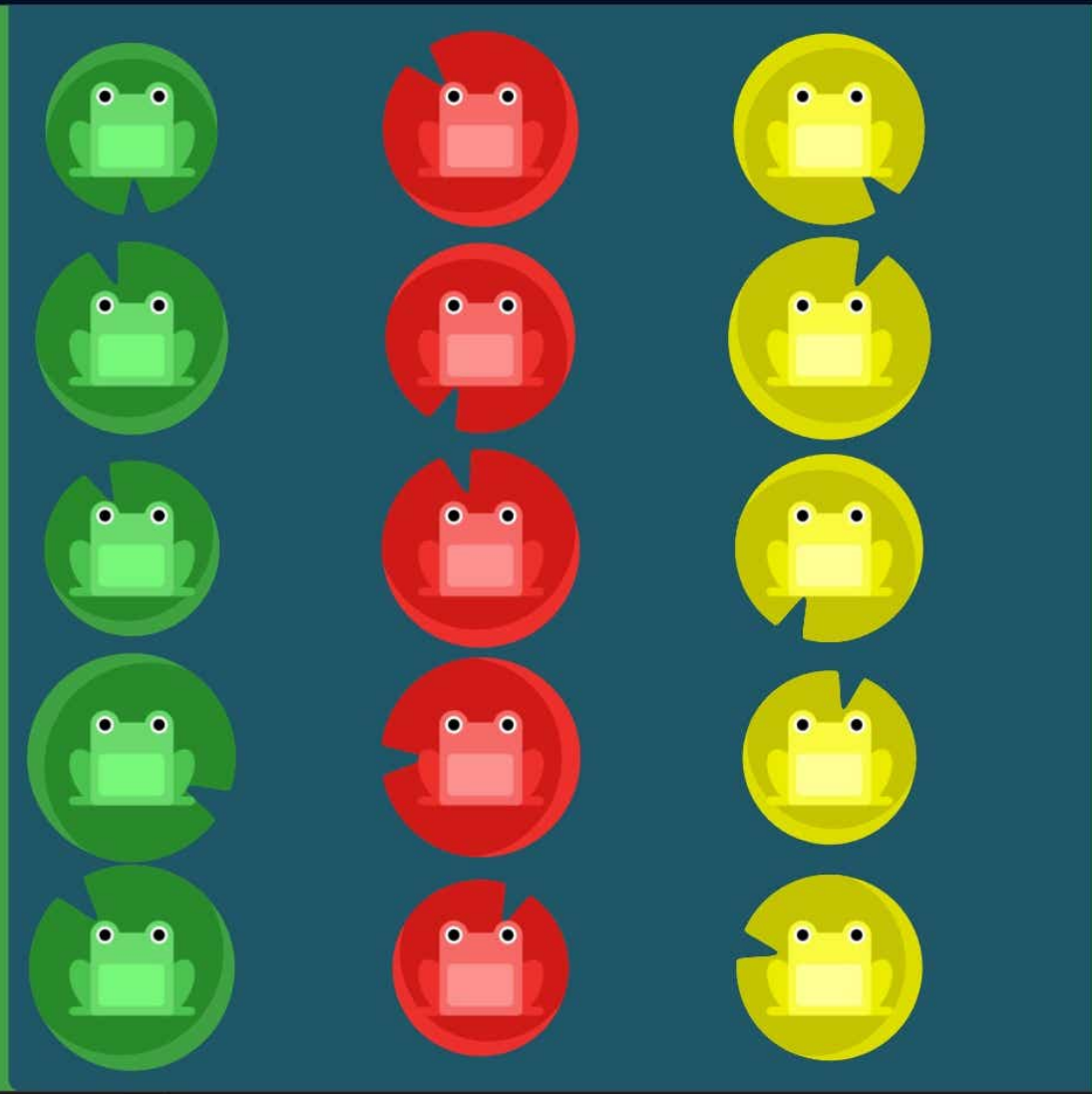

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align-self: flex-end;

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FLEXBOX FROGGY

Level 21 of 24

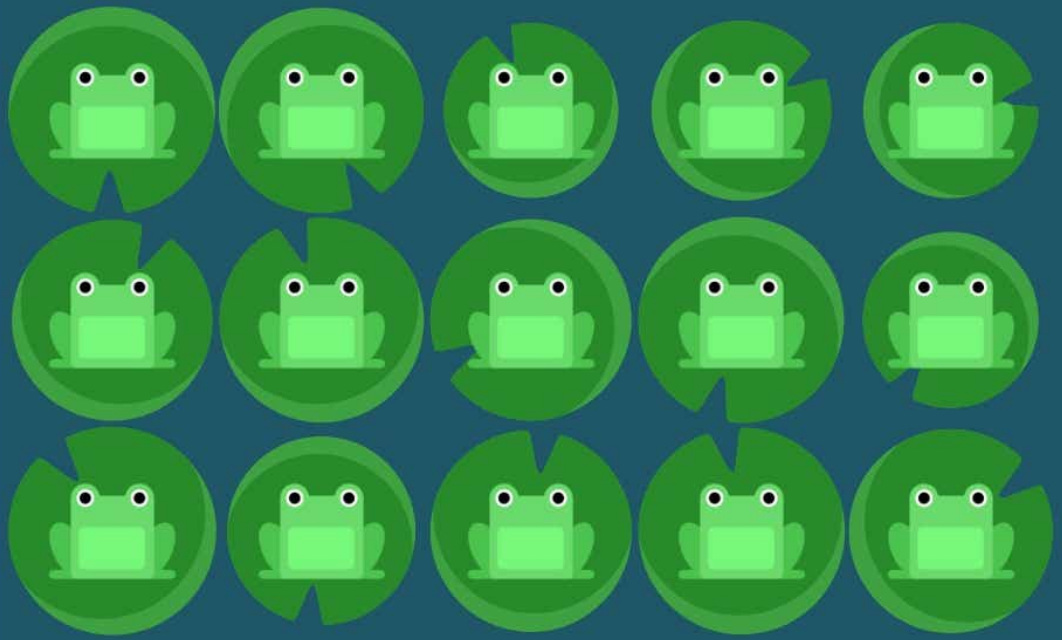
The frogs are spread all over the pond, but the lilypads are bunched at the top. You can use `align-content` to set how multiple lines are spaced apart from each other. This property takes the following values:

- `flex-start`: Lines are packed at the top of the container.
- `flex-end`: Lines are packed at the bottom of the container.
- `center`: Lines are packed at the vertical center of the container.
- `space-between`: Lines display with equal spacing between them.
- `space-around`: Lines display with equal spacing around them.
- `stretch`: Lines are stretched to fit the container.

This can be confusing, but `align-content` determines the spacing between lines, while `align-items` determines how the items as a whole are aligned within the container. When there is only one line, `align-content` has no effect.

```
1  #pond {
2    display: flex;
3    flex-wrap: wrap;
4      align-content: flex-start;
5  }
6
7
8
9
10
```

Next



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align-self: flex-end;

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FLEXBOX FROGGY

Level 22 of 24

Now the current has bunched the lilypads at the bottom. Use `align-content` to guide the frogs there.

```
#pond {
  display: flex;
  flex-wrap: wrap;
  align-content: flex-end;
}
```

Next

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align-self: flex-end;

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FLEXBOX FROGGY

Level 23 of 24

The frogs have had a party, but it is time to go home. Use a combination of `flex-direction` and `align-content` to get them to their lilypads.

```
#pond {
  display: flex;
  flex-wrap: wrap;
  flex-direction: column-reverse;
    align-content: center;
}
```

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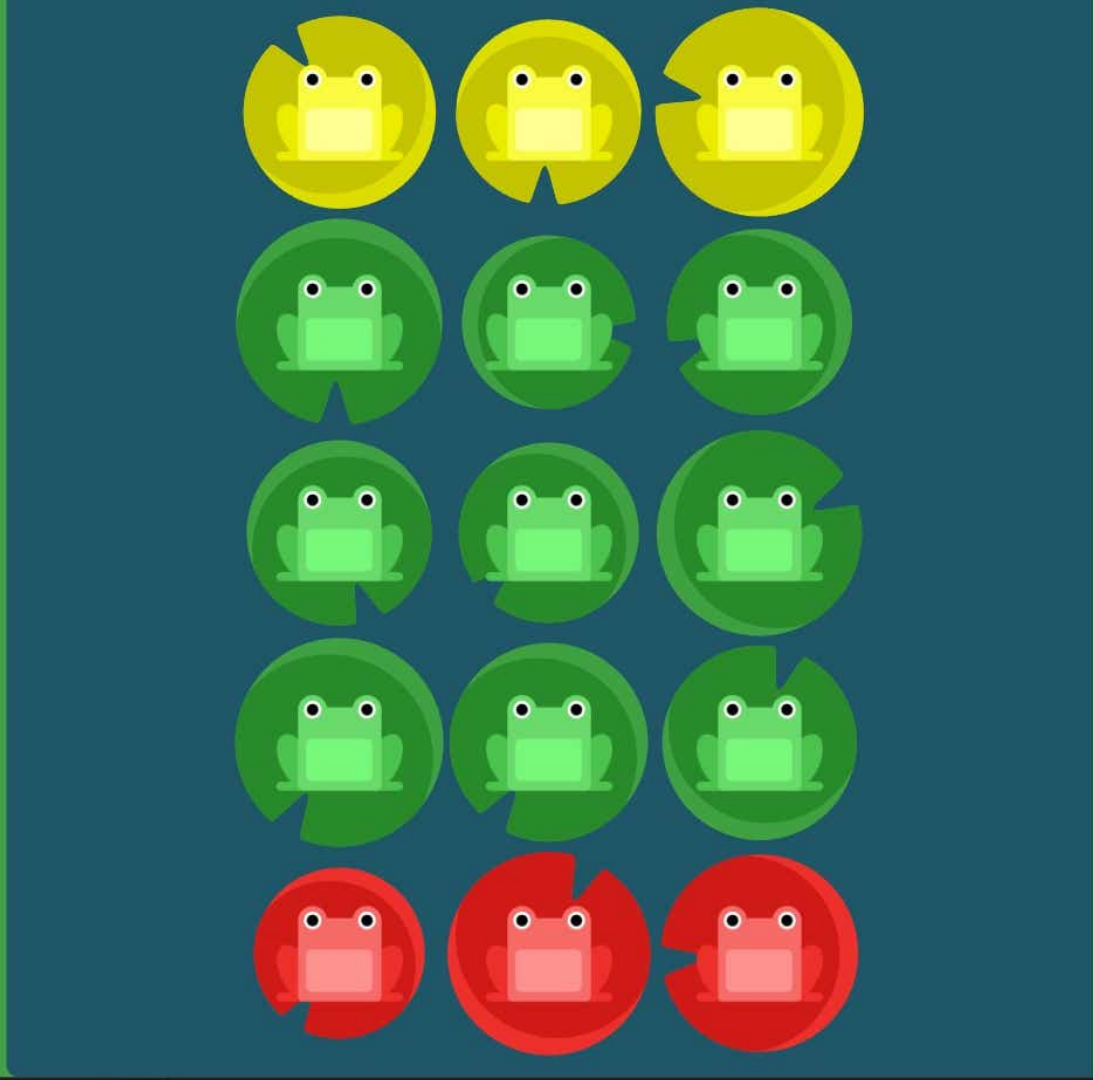

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align-self: flex-end;

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FLEXBOX FROGGY

Level 24 of 24

Bring the frogs home one last time by using the CSS properties you've learned:

- `justify-content`
- `align-items`
- `flex-direction`
- `order`
- `align-self`
- `flex-wrap`
- `flex-flow`
- `align-content`

```
#pond {
  display: flex;
    flex-flow: wrap-reverse column-reverse;
    align-content: space-between;
    justify-content: center;

}
```

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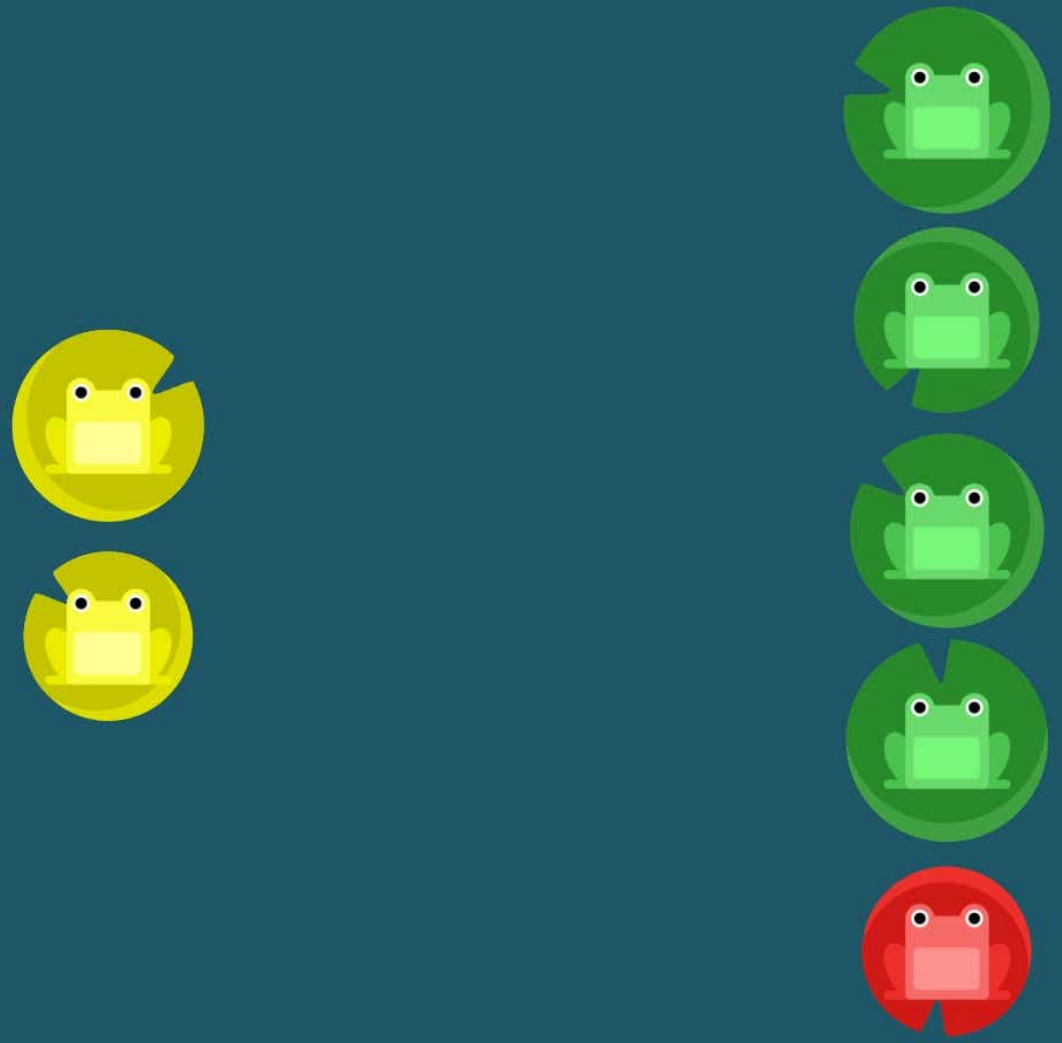

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