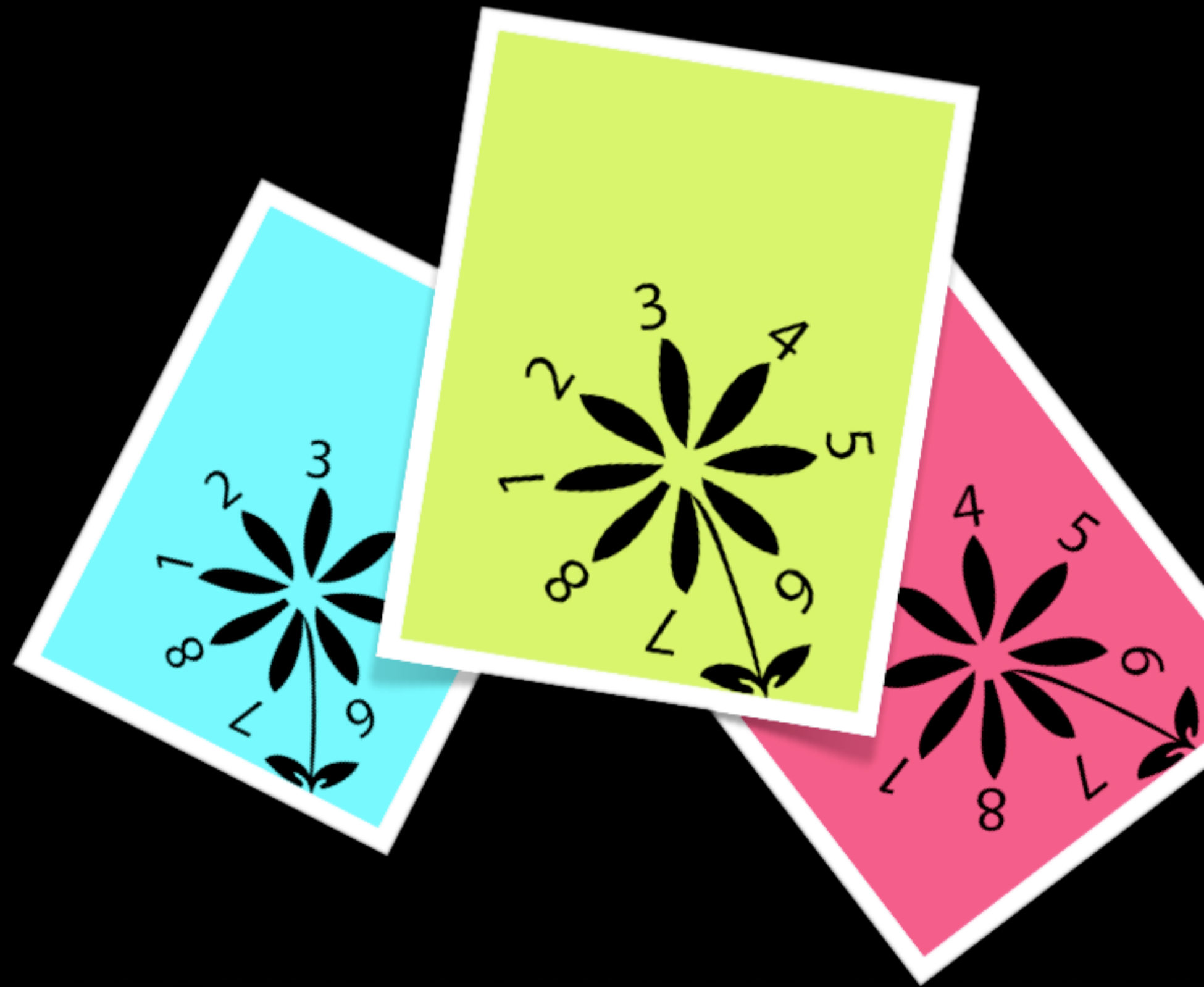


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Arrays within arrays . . . .

# The Multidimensional Array

So, what is a multidimensional array?

- ▶ A multidimensional array is **an array that contains at least one nested array as a value to a key.** They are basically arrays within arrays.

Here's how we could declare a multidimensional array:

```
▶ $fruit = array  
(  
    "citrus" => array("oranges", "lemons", "limes"),  
    "melons" => array("watermelon", "galia", "casaba"),  
    "berries" => array("currant", "raspberry", "blueberry")  
);
```

Let's look at an illustrative table format in the next slide.

<b>\$fruit</b>	<b>[0]</b>	<b>[1]</b>	<b>[2]</b>
<b>[citrus]</b>	oranges	lemons	limes
<b>[melons]</b>	watermelon	galia	casaba
<b>[berries]</b>	currant	raspberry	blueberry

- ▶ The side row headings are the top-level keys in the array.
- ▶ The columns are the values to those keys, which are held in nested arrays.

<b>\$fruit</b>	<b>[0] array</b>	<b>[1] array</b>	<b>[2] array</b>
<b>[citrus]</b>	oranges	lemons	limes
<b>[melons]</b>	watermelon	galia	casaba
<b>[berries]</b>	currant	raspberry	blueberry

- ▶ So if we wanted to grab the value of “blueberry,” you could use the following command:

```
echo $fruit[‘berries’][2];
```

You can practice with multidimensional arrays using the `print_r()` function.

If you want to jump forward to see how we can access these arrays with loops, you can look at the Loops lecture.