

The `validity` property of input fields

The `validity` property of input fields helps to get error details when the field is *invalid*. This property tests the different validation types errors.

Here is how to get the `validity` property of an input field:

```
var input = document.getElementById('IdOfField');  
var validityState_object = input.validity;
```

The different possible values for the `validity` property are:

- `valueMissing`
- `typeMismatch`
- `patternMismatch`
- `tooLong`
- `rangeUnderflow`
- `rangeOverflow`
- `stepMismatch`
- `valid`
- `customError`

Here is [an example at JS Bin](#) that shows how to test the different types of [validation errors](#), or you may try it here in your browser (enter bad values, too big, too small, enter invalid characters, etc.):

Enter a value between 10 and 20

Submit

Note that testing it in Chrome/Opera/Firefox does not produce the same results. So far Opera has the most advanced implementations, however, entering "21" for example in the `<input type="number" max="20"/>` input field may yield some unexpected results depending on the browser. Test it yourself.

Source code:

```
<!DOCTYPE html>
<html>
...
<body>
<script>
function validate() {
    var input = document.getElementById('b');
    var validityState_object = input.validity;

    if(validityState_object.valueMissing) {
12.     input.setCustomValidity('Please set an age (required)');
    } else if (input.rangeUnderflow) {
        input.setCustomValidity('Your value is too low');
    } else if (input.rangeOverflow) {
        input.setCustomValidity('Your value is too high');
    } else if (input.typeMismatch) {
        input.setCustomValidity('Type mismatch');
    } else if (input.tooLong) {
        input.setCustomValidity('Too long');
    } else if (input.stepMismatch) {
22.     input.setCustomValidity('stepMismatch');
```

```

    } else if (input.patternMismatch) {
        input.setCustomValidity('patternMismatch');
    } else if (input.customError) {
        input.setCustomValidity('customError');
    } else {
        input.setCustomValidity('');
    }
}
</script>
32. <form class="myForm">
    <label for="b">Enter a value between 10 and 20:</label>
    <input type="number" name="text" id="b" min="10"max="20"
        required oninput='validate()'/>
    <button>Submit</button>
</form>
</body>
41. </html>

```

THE VALIDATIONMESSAGE PROPERTY

It is also possible to get the validation error message, using the `validationMessage` property of input fields.

```

var input = document.getElementById('b');
console.log("Validation message = " +input.validationMessage);

```

This will be useful for making custom error messages. More about this topic in the next section of the course.