

# FORM VALIDATION

## 1/ Function Validator:

```
function Validator(options) {
  let form = document.querySelector(options.form);
  let selectorRules = {};

  function getFormGroup(formInput) {
    while (formInput && !formInput.matches(options.formGroup))
      formInput = formInput.parentElement;
    return formInput;
  }

  function switchStatus(status, formInput, message) {
    let formGroup = getFormGroup(formInput);
    let formMessage = formGroup.querySelector(options.formMessage);

    switch (status) {
      case 'valid':
        formGroup.classList.add('valid');
        formGroup.classList.remove('invalid');
        formMessage.innerText = options.successMessage || '';
        break;
      case 'invalid':
        formGroup.classList.add('invalid');
        formGroup.classList.remove('valid');
        formMessage.innerText = message || 'An error has occur';
        break;
      case 'neutral':
        formGroup.classList.remove('invalid');
        formGroup.classList.remove('valid');
        formMessage.innerText = '';
        break;
    }
  }
}
```

```

        default:
            break;
    }
}

function validate(formInput, rule) {
    let rules = selectorRules[rule.selector];
    let errorMessage = '';

    for (let i = 0; i < rules.length; i++) {
        switch (formInput.type) {
            case 'checkbox':
            case 'radio':
                let checkedInput =
getFormGroup(formInput).querySelector(rule.selector + ':checked');
                errorMessage = rules[i](checkedInput && checkedInput.value);
                break;
            default:
                errorMessage = rules[i](formInput.value);
        }
        if (errorMessage) {
            switchStatus('invalid', formInput, errorMessage);
            break;
        }
        else
            switchStatus('valid', formInput);
    }
    return !errorMessage;
}

options.rules.forEach(rule => {
    if (!Array.isArray(selectorRules[rule.selector]))
        selectorRules[rule.selector] = [rule.test];
});

```

```

else
  selectorRules[rule.selector].push(rule.test);

let formInputs = form.querySelectorAll(rule.selector);

formInputs.forEach(formInput => {
  if (formInput) {
    formInput.onblur = () => {
      validate(formInput, rule);
    }
    if (options.successMessage === '' || formInput.type !==
'checkbox')
      formInput.oninput = () => {
        switchStatus('neutral', formInput);
      }
  }
})
})

form.onsubmit = (e) => {
  let validForm = true;

  options.rules.forEach(rule => {
    let formInput = form.querySelector(rule.selector);

    if (formInput) {
      let validInput = validate(formInput, rule);
      if (!validInput)
        validForm = false;
    }

  })
})

```

```

    if (!validForm) {
        e.preventDefault();
    }
}
}

```

```

Validator.isRequired = (selector, message) => ({
    selector: selector,
    test: (value) => value ? undefined : message || 'Error'
});

```

```

Validator.isEmail = (selector, message) => ({
    selector: selector,
    test: (value) => {
        let regex = /^\\w+([\\.-]?\\w+)*@\\w+([\\.-]?\\w+)*(\\.\\w{2,3})+$/;
        return regex.test(value) ? undefined : message || 'Error';
    }
});

```

**// Email Regex:**

```

//  /^\\w+([\\.-]?\\w+)*@\\w+([\\.-]?\\w+)*(\\.\\w{2,3})+$/

```

## 2/ Usage:

### a/ In the HTML file containing the form

```

<script src="./validation.js"></script>
<script>
    Validator({
        form: '#form',
        formGroup: '.form-group',
        formMessage: '.form-message',
        successMessage: 'Passed',
    });

```

```

rules: [
    Validator.isRequired('#full-name', 'Your name is required'),
    Validator.isRequired('#email', 'Your email is required'),
    Validator.isEmail('#email', 'The email is invalid'),
    Validator.isRequired('input[type="checkbox"]', 'Please choose
at least a language'),
],
});
</script>

```

## **b/ For the HTML file containing the information (Query string)**

```

let params = new URL(window.location).searchParams;
let fullName = params.get('full-name');
let email = params.get('email');
let languages = params.getAll('languages').join(', ');
let formResult = document.querySelector('.form-result');

formResult.innerHTML +=
`
<div class="form-result-group">
    <span class="form-result-key">Full name:</span>
    <span class="form-result-value">${fullName}</span>
</div>
<div class="form-result-group">
    <span class="form-result-key">Email:</span>
    <span class="form-result-value">${email}</span>
</div>
<div class="form-result-group">
    <span class="form-result-key">Chosen languages:</span>
    <span class="form-result-value">${languages}</span>
</div>
`;

```

# HTML & CSS

## 1/ Sticky footer

### a/ HTML

```
<div class="wrapper">
  <header class="header"></header>
  <main class="main"></main>
  <footer class="footer"></footer>
</div>
```

### b/ CSS

```
.wrapper {
  display: flex;
  flex-direction: column;
  min-height: 100vh;
  gap: 120px;
}
.footer {
  margin-top: auto;
}
```

## 2/ Colors:

```
:root {
  --green: #20E3B2;
  --blue: #2CCCCF;
  --purple: #6A5AF9;
  --pink: #F62682;
  --orange: #FF6651;
}
```