Portfolio Website Tutorial

Step-by-Step Guide to Building a Personal Portfolio Website

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1. Project Setup

Create a folder for your project:

```cpp
personal-portfolio/
│── index.html
│── style.css
│── script.js
│── images/    (for storing profile images, project screenshots)
│── assets/    (optional: icons, fonts)
```

---

2. HTML - Structure of the Website

Your portfolio should have:

1. **Navigation Bar** – Links to different sections.
2. **Hero Section** – Introduction with a short bio.
3. **About Section** – More details about your skills.
4. **Projects Section** – Display projects with links.
5. **Contact Section** – Contact form.

Code (`index.html`)

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>My Portfolio</title>
    <link rel="stylesheet" href="style.css">
</head>
<body>
    <!-- Navbar -->
    <header>
        <nav>
            <ul>
                <li><a href="#home">Home</a></li>
                <li><a href="#about">About</a></li>
                <li><a href="#projects">Projects</a></li>
                <li><a href="#contact">Contact</a></li>
            </ul>
        </nav>
    </header>

    <!-- Hero Section -->
    <section id="home">
        <h1>Hi, I'm <span>Your Name</span></h1>
        <p>I'm a Web Developer passionate about building amazing websites.</p>
    </section>
```

```html
    <!-- About Section -->
    <section id="about">
        <h2>About Me</h2>
        <p>I have experience in HTML, CSS, JavaScript, and React...</p>
    </section>

    <!-- Projects Section -->
    <section id="projects">
        <h2>Projects</h2>
        <div class="project">
            <h3>Project 1</h3>
            <p>Brief description of the project.</p>
        </div>
        <div class="project">
            <h3>Project 2</h3>
            <p>Brief description of the project.</p>
        </div>
    </section>

    <!-- Contact Section -->
    <section id="contact">
        <h2>Contact Me</h2>
        <form id="contact-form">
            <input type="text" id="name" placeholder="Your Name" required>
            <input type="email" id="email" placeholder="Your Email" required>
            <textarea id="message" placeholder="Your Message" required></textarea>
            <button type="submit">Send</button>
        </form>
    </section>

    <script src="script.js"></script>
</body>
</html>
```

3. CSS - Styling the Website

Use Flexbox and media queries for responsiveness.

Code (`style.css`)

```css
css

body {
    font-family: Arial, sans-serif;
    margin: 0;
    padding: 0;
    text-align: center;
}

/* Navbar */
nav ul {
    display: flex;
    list-style: none;
    justify-content: center;
    padding: 10px;
    background: #333;
}
nav ul li {
    margin: 0 15px;
}
nav ul li a {
    color: white;
    text-decoration: none;
}

/* Sections */
section {
    padding: 50px;
```

```css
        margin: 20px;
}
h1 span {
        color: blue;
}

/* Contact Form */
form {
        display: flex;
        flex-direction: column;
        width: 50%;
        margin: auto;
}
input, textarea, button {
        margin: 10px 0;
        padding: 10px;
}
button {
        background: blue;
        color: white;
        cursor: pointer;
}

/* Responsive Design */
@media (max-width: 600px) {
        nav ul {
                flex-direction: column;
        }
}
```

4. JavaScript - Adding Interactivity

1. Form Validation
2. Smooth Scroll Effect

Code (`script.js`)

```js
js

document.getElementById("contact-form").addEventListener("submit", function(event) {
        event.preventDefault();
        alert("Thank you for reaching out!");
});
```

5. Must-Do Elements for Every Project

✅ **Use Semantic HTML** (`<section>`, `<nav>`, `<header>`, etc.)
✅ **Ensure Mobile Responsiveness** (Media Queries)
✅ **Optimize for Performance** (Minimize CSS, Optimize Images)
✅ **Include a Contact Form** (Even if not fully functional)
✅ **Host Online** (GitHub Pages, Netlify, or Vercel)

6. Deploy Your Portfolio

1. Push code to **GitHub**
2. Use **GitHub Pages / Netlify / Vercel** to host it.

This is a basic portfolio setup. You can customize and enhance it with animations, more styling, and dynamic content.

Would you like to add a **dark mode toggle** or **more advanced features**? 🚀

How to Add Dark Mode in a Website

Dark mode can be implemented using JavaScript and CSS by toggling a class on the `<body>` element. Here's how:

1. Modify the HTML

Add a button to toggle dark mode.

```html
<button id="dark-mode-toggle">🌙 Toggle Dark Mode</button>
```

2. Update the CSS

Define styles for dark mode.

```css
/* Light Mode (Default) */
body {
    background: white;
    color: black;
    transition: background 0.3s, color 0.3s;
}

/* Dark Mode */
.dark-mode {
    background: #121212;
    color: white;
}
```

3. Add JavaScript to Toggle Dark Mode

Store the user's preference using `localStorage` so that the mode persists.

```js
const toggleButton = document.getElementById("dark-mode-toggle");

toggleButton.addEventListener("click", () => {
    document.body.classList.toggle("dark-mode");

    // Save preference
    if (document.body.classList.contains("dark-mode")) {
        localStorage.setItem("theme", "dark");
    } else {
        localStorage.setItem("theme", "light");
    }
});
```

```
// Apply stored preference on page load
if (localStorage.getItem("theme") === "dark") {
    document.body.classList.add("dark-mode");
}
```

Now, let's integrate this into the full project. 🚀

Complete Personal Portfolio with Dark Mode

`index.html`

```
html

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>My Portfolio</title>
    <link rel="stylesheet" href="style.css">
</head>
<body>
    <!-- Dark Mode Toggle -->
    <button id="dark-mode-toggle">🌙 Toggle Dark Mode</button>

    <!-- Navbar -->
    <header>
        <nav>
            <ul>
                <li><a href="#home">Home</a></li>
                <li><a href="#about">About</a></li>
                <li><a href="#projects">Projects</a></li>
                <li><a href="#contact">Contact</a></li>
            </ul>
        </nav>
    </header>

    <!-- Hero Section -->
    <section id="home">
        <h1>Hi, I'm <span>Your Name</span></h1>
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    <section id="projects">
        <h2>Projects</h2>
        <div class="project">
            <h3>Project 1</h3>
            <p>Brief description of the project.</p>
        </div>
        <div class="project">
            <h3>Project 2</h3>
            <p>Brief description of the project.</p>
        </div>
    </section>

    <!-- Contact Section -->
    <section id="contact">
        <h2>Contact Me</h2>
        <form id="contact-form">
            <input type="text" id="name" placeholder="Your Name" required>
            <input type="email" id="email" placeholder="Your Email" required>
```

```
            <textarea id="message" placeholder="Your Message" required></textarea>
            <button type="submit">Send</button>
        </form>
    </section>

    <script src="script.js"></script>
</body>
</html>
```

`style.css`

```css
body {
    font-family: Arial, sans-serif;
    margin: 0;
    padding: 0;
    text-align: center;
    transition: background 0.3s, color 0.3s;
}

/* Dark Mode */
.dark-mode {
    background: #121212;
    color: white;
}

/* Navbar */
nav ul {
    display: flex;
    list-style: none;
    justify-content: center;
    padding: 10px;
    background: #333;
}
nav ul li {
    margin: 0 15px;
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/* Sections */
section {
    padding: 50px;
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h1 span {
    color: blue;
}

/* Contact Form */
form {
    display: flex;
    flex-direction: column;
    width: 50%;
    margin: auto;
}
input, textarea, button {
    margin: 10px 0;
    padding: 10px;
}
button {
    background: blue;
    color: white;
    cursor: pointer;
}

/* Dark Mode Button */
```

```css
#dark-mode-toggle {
    position: fixed;
    top: 10px;
    right: 10px;
    padding: 10px;
    border: none;
    cursor: pointer;
    background: gray;
    color: white;
    border-radius: 5px;
}

/* Responsive Design */
@media (max-width: 600px) {
    nav ul {
        flex-direction: column;
    }
}
```

`script.js`

```js
document.getElementById("contact-form").addEventListener("submit", function(event) {
    event.preventDefault();
    alert("Thank you for reaching out!");
});

// Dark Mode Toggle
const toggleButton = document.getElementById("dark-mode-toggle");

toggleButton.addEventListener("click", () => {
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    // Save preference
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        localStorage.setItem("theme", "dark");
    } else {
        localStorage.setItem("theme", "light");
    }
});

// Apply stored preference on page load
if (localStorage.getItem("theme") === "dark") {
    document.body.classList.add("dark-mode");
}
```

🚀 Features in This Portfolio

✔️ Responsive Layout (Mobile Friendly)
✔️ Dark Mode Toggle (Persistent with `localStorage`)
✔️ Contact Form with Basic JavaScript Validation
✔️ Clean & Simple Styling

Next Steps

- **Enhance Dark Mode**: Change colors of buttons, links, etc.
- **Improve Styling**: Add animations or transitions.
- **Host Your Portfolio**: Deploy on GitHub Pages or Netlify.

Would you like any other features added, like **typing animation** or **scroll effects**? 🚀