

HTML <input> Tag with Pattern Attribute

The 'pattern' attribute in HTML's <input> tag is used to specify a regular expression (regex) that the input's value must match for the form to be submitted. This allows client-side validation without JavaScript.

Syntax:

```
<input type="text" pattern="your-regex-here">
```

How it works:

- The pattern must match the entire input value (as if it's wrapped with ^ and \$).
- If the input doesn't match the pattern, the form will not submit.
- Useful for input types: text, search, tel, url, email, password.

Common Examples:

1. Only letters:

```
<input type="text" pattern="[A-Za-z]+">
```

2. Only numbers:

```
<input type="text" pattern="\d+">
```

3. 5-digit ZIP code:

```
<input type="text" pattern="\d{5}">
```

4. Email format (simple):

```
<input type="email" pattern="[a-z0-9._%+-]+@[a-z0-9.-]+\.[a-z]{2,}$">
```

5. Phone number (e.g., 123-456-7890):

```
<input type="tel" pattern="\d{3}-\d{3}-\d{4}">
```

Note: Always pair pattern with title attribute to guide users.