In HTML, input fields are created using the <input> tag. The type attribute specifies the kind of input element. Here's a list of common input types and examples:

**HTML Input Types**

**1. Text Field**

* **Description**: Used for single-line text input.
* **HTML**:

html

Copy code

<input type="text" id="name" name="name">

**2. Password**

* **Description**: Used for password input. Characters are hidden by default.
* **HTML**:

html

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<input type="password" id="password" name="password">

**3. Email**

* **Description**: Used for email addresses. It can validate the format of the email.
* **HTML**:

html

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<input type="email" id="email" name="email">

**4. Number**

* **Description**: Used for numeric input. It allows only numbers and provides arrows for increment/decrement.
* **HTML**:

html

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<input type="number" id="age" name="age">

**5. Tel (Telephone)**

* **Description**: Used for phone numbers. It can be validated for the phone number format.
* **HTML**:

html

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<input type="tel" id="phone" name="phone">

**6. Date**

* **Description**: Used for selecting dates. Provides a date picker in supported browsers.
* **HTML**:

html

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<input type="date" id="birthday" name="birthday">

**7. Time**

* **Description**: Used for selecting time (hour and minute).
* **HTML**:

html

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<input type="time" id="meeting" name="meeting">

**8. Checkbox**

* **Description**: Used for Boolean (true/false) options, allowing multiple selections.
* **HTML**:

html

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<input type="checkbox" id="subscribe" name="subscribe" value="yes">

**9. Radio Button**

* **Description**: Used for selecting one option from a group of options.
* **HTML**:

html

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<input type="radio" id="male" name="gender" value="male"> Male

<input type="radio" id="female" name="gender" value="female"> Female

**10. File**

* **Description**: Used for file uploads.
* **HTML**:

html

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<input type="file" id="fileUpload" name="fileUpload">

**11. Range**

* **Description**: Used for selecting a value within a range. Typically shown as a slider.
* **HTML**:

html

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<input type="range" id="volume" name="volume" min="0" max="100">

**12. Submit**

* **Description**: Used to submit a form.
* **HTML**:

html

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<input type="submit" value="Submit">

**13. Button**

* **Description**: Used to define a clickable button (can be used in forms or as a standalone button).
* **HTML**:

html

Copy code

<input type="button" value="Click me">

**14. Hidden**

* **Description**: Used to store values that the user cannot see or modify.
* **HTML**:

html

Copy code

<input type="hidden" id="userId" name="userId" value="12345">

**15. Search**

* **Description**: Used for search input fields. It typically displays a search icon and has browser-specific styling.
* **HTML**:

html

Copy code

<input type="search" id="search" name="search">

**16. Color**

* **Description**: Used to pick a color from a color palette.
* **HTML**:

html

Copy code

<input type="color" id="color" name="color">

**CSS Styling for Input Fields**

You can style HTML input fields using CSS to customize their appearance:

**1. Basic CSS for Inputs**

css

Copy code

input[type="text"] {

padding: 8px;

border: 1px solid #ccc;

border-radius: 4px;

}

input[type="password"] {

padding: 8px;

border: 1px solid #ccc;

border-radius: 4px;

}

input[type="submit"] {

background-color: #4CAF50;

color: white;

padding: 10px 15px;

border: none;

border-radius: 5px;

cursor: pointer;

}

**2. Focus State Styling**

css

Copy code

input:focus {

border-color: #4CAF50;

outline: none;

box-shadow: 0 0 5px rgba(0, 255, 0, 0.5);

}

**3. Disabled Input**

css

Copy code

input:disabled {

background-color: #f0f0f0;

cursor: not-allowed;

}

**4. Placeholder Text Styling**

css

Copy code

input::placeholder {

color: #888;

font-style: italic;

}

**5. Range Slider Styling**

css

Copy code

input[type="range"] {

width: 100%;

height: 8px;

background: #ddd;

border-radius: 5px;

}

input[type="range"]::-webkit-slider-thumb {

width: 20px;

height: 20px;

background: #4CAF50;

border-radius: 50%;

cursor: pointer;

}

These input types and CSS styles allow you to create flexible and user-friendly forms, with customization options for both the input field and its visual appearance.