

Form Elements

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HTML5: New Form elements

HTML5 has several new elements for forms.

- input types
 - > email
 - > url
 - > tel
 - > number
 - > range
 - > date pickers
 - > search
 - > color
- Other elements
 - > datalist
 - > keygen
 - > output
- Form Validation attributes

HTML5: Input - e-mail The email type is used for input fields and will have an email

 The email type is used for input fields and will have an email address.

 Depending on browser support, the e-mail address can be automatically validated when submitted.

E-mail: <input type="email" name="user_email" /> <input type="email" value="default@example.com"> <input type="email" size="32" minlength="3" maxlength="64"> <input type="email" placeholder="sophie@example.com">

E-mail:

Input - url

The url type is used for input fields and will have a URL address.

• The value of the url field is automatically validated when the form is submitted.

Homepage: <input type="url" name="user_url" />

tel

```
<form>
Telephone: <input type="tel" name="phone"
pattern="[0-9]{3}-[0-9]{2}-[0-9]{3}" required>
<input type="submit">
<span>Format: 123-45-678</span>
</form>
```

Telephone: Submit

Format: 123-45-678

Input - number

- defines a numeric input field
- Set restrictions on what numbers are accepted:

Points: <input type="number" name="points" min="1" max="10" />

Attribute	Value	Description
max	number	Specifies the maximum value allowed
min	number	Specifies the minimum value allowed
step	number	Specifies legal number intervals (if step="3", legal numbers could be -3,0,3,6, etc)
value	number	Specifies the default value

Input - range

- Slider control
- Default range is 0 to 100
- The range type is used for input fields that should contain a value from a range of numbers.
- You can also set restrictions on what numbers are accepted:

```
<input type="range" name="points" min="1" max="10" />
```

Depending on browser support: The input type "range" can be displayed as a slider control.



Input – date pickers

input type for selecting date and time:

- > date Selects date, month and year
- > month Selects month and year
- > week Selects week and year
- > time Selects time (hour and minute)
- > datetime Selects time, date, month and year
- > datetime-local Selects time, date, month and year (local time)

Date

```
Birthday:
 <input type="date" name="bday">
```

Birthday: mm/dd/yyyy

```
<form>
Enter a date before 1980-01-01:<br
<input type="date" name="bday" max="1979-12-31"><br><br><br></pr>
Enter a date after 2000-01-01:<br
<input type="date" name="bday" min="2000-01-02"><br><br>
</form>
```

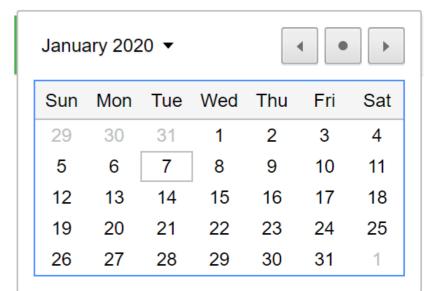
Enter a date before 1980-01-01:

mm/dd/yyyy

Enter a date after 2000-01-01:

mm/dd/yyyy

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Time, Date

<input type="time" id="tnputtime" name="inputtime">

Select a time:

Birthday (date and time): <input type="datetime-local" name="bdaytime">

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Input - search

- The search type is used for search fields like a site search or Google search.
- The search field behaves like a regular text field.

Search Google:<input type="search" id="gsearch" name="gsearch">

Search Google:

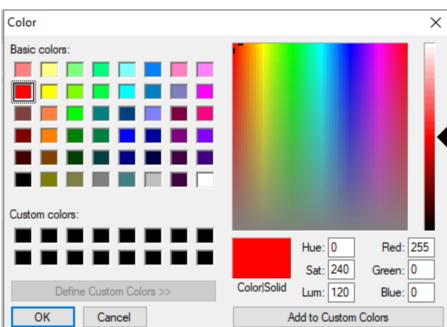
Input – color picker

input field that contains a color.

 allow you to select a color from a color picker. Default: black color

Color: <input type="color" name="user_color" />

Color Picker



Other new form elements

HTML5 has several new elements and attributes for forms.

- > datalist
- > keygen
- > output

datalist

1. The **datalist** element specifies a list of options for an input field. The list is created with option elements inside the datalist. (similar to SELECT tag)

Difference between <select> and <datalist> elements in HTML

- •<datalist> is a new element in HTML5. It is a text field that suggests the possible values from an available list. Users can also enter value that is not in the available list.
- <select> provides a number of values from which user needs to select one. User cannot enter value that is not in the list.

keygen

2. The purpose of the **keygen** element is to provide a secure way to authenticate users. (keytype:rsa,dsa,ec)

Eg: <keygen name="security" keytype="rsa">

RSA - Rivest-Shamir-Adleman

DSA - Digital Signature Algorithm)

EC - Elliptic Curve

output

3. The **output** element is used for different types of output, like calculations or script output:

```
<form oninput="x.value=parseInt(a.value)+parseInt(b.value)">
0<input type="range" id="a" value="50">100
+<input type="number" id="b" value="50">
=<output name="x" for="a b"></output>
</form>
```

```
0 100 +
50 =111
```

Form validation attributes

required	Specifies that an input field is required (must be filled out)
pattern	Specifies a regular expression to check the input value against