

Lesson 18

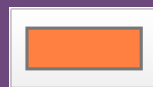
Input element types in HTML5

In previous lesson we have talked about types that we have for <input> element and these types are available in HTML even before HTML5. In this lesson we will talk about all new types that HTML5 brings.

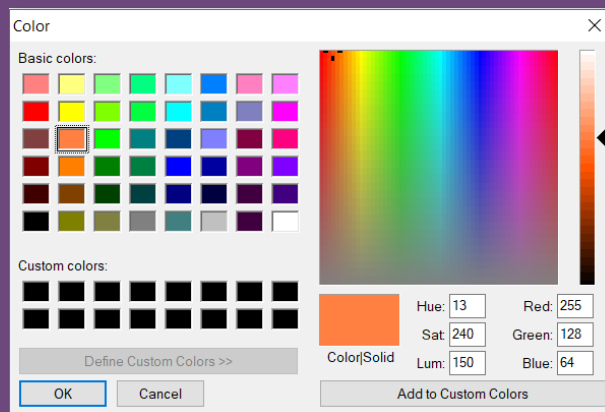
Types of input element that we have in HTML5 are color, date, datetime-local, email, month, number, range, search, tel, time, url, and week.

color input type will create color picker (chooser).

```
<input type="color" name="colorPicker" value="#FF8040"/>
```



Color picker is HTML element that we can click, and pallet of colors will be opened, and we can choose any color that we want from that pallet.



With value attribute we can set initial color for our color picker. Value that we set is hexadecimal color value. If you don't know what is hexadecimal value for color that you want to set, there are many websites on internet where you can find what are hexadecimal values for all available colors. (this is official w3schools color converter https://www.w3schools.com/colors/colors_picker.asp)

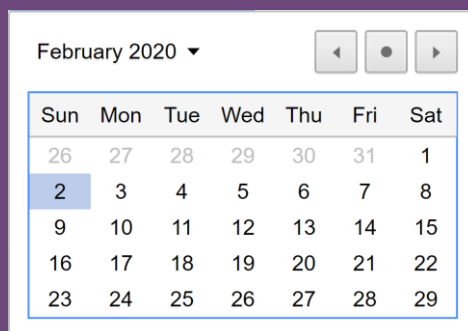
Lesson 18

date input type will create date picker (chooser).

```
<input type="date" name="datePicker" value="2020-02-02" />
```

02/02/2020

Date picker is HTML element that we can click, and calendar will be opened, and we can choose date from that calendar.



With value attribute we can set initial date in our calendar. (yyyy-mm-dd)

datetime-local input type will create date picker (chooser) that we can use to choose date from calendar and additionally we can enter time for that date.

```
<input type="datetime-local" name="dtlPicker" value="2020-02-02T12:00" />
```

02/02/2020 12:00 PM

Datetime-local is very similar to regular date picker, it will open calendar from which you will choose date, and you can additionally type time for that date.

With value we can set initial date and time in format yyyy-mm-ddThh:mm.

Lesson 18

email input type will create email input field.

```
<input type="email" name="emailField" required />
```

emailaddressgmail.com

! Please include an '@' in the email address. 'emailaddressgmail.com' is missing an '@'.

Email input field is basically text field but if we add additional **required** HTML attribute (we will talk about required attribute in the next lesson), user can enter only valid email addresses. Valid email address is address that contains @ character. In case if we omit @ from value that we enter in email field we will get validation error (see example above).

month input type will create month picker (chooser).

```
<input type="month" name="monthPicker" value="2020-02" />
```

February 2020

Month picker is HTML element that is very similar to regular date picker. You can click on month picker and calendar will be opened and you can choose only month and year for that month.

February 2020 ▾						
<div> <div>◀</div> <div>●</div> <div>▶</div> </div>						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
26	27	28	29	30	31	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

Lesson 18

With value attribute we can set initial month for our calendar in format yyyy-mm.

number input type will create number input field.

```
<input type="number" name="numberField" value="5" />
```

Number input field is field where you can enter only numbers. You can type value in input field but also you can use arrows on right hand side to decrease value (arrow down ▼) or increase value (arrow up ▲).

With value attribute we can set initial value for number input field.

range input type will create range selector.

```
<input type="range" name="rangeSelector" min="0" max="10" />
```

0 1 2 3 4 5 6 7 8 9 10

Range selector is HTML element that allows us to select one value from some range of values. With min and max attributes, we set start and end value for range selector, where min represents start value and max represents end value.

search input type will create search input field.

```
<input type="search" name="searchField" />
```

Lesson 18

Search input field is field that purpose should be that user enter some text that will search for content related with that word (something like we have in Google or Yahoo). By default, search input field is same as regular text input field. But with some additional HTML attributes we can enable other useful features (autocomplete, list, minlength, maxlength, pattern etc.). Some of these HTML attributes we will cover in the next lesson.

tel input type will create telephone input field.

```
<input type="tel" name="telField" pattern="[0-9]{3}-[0-9]{3}-[0-9]{3}" />
```



Please match the requested format.

Tel input field is field where you can enter only valid telephone numbers. Valid telephone number is every number that follows pattern that we define in pattern attribute. For our example above, we have defined pattern, which means that users need to enter three digits {3} from 0 to 9 [0-9] then dash (-) once again three digits from 0 to 9 then dash and one more time, three digits from 0 to 9. ([0-9]{3}-[0-9]{3}-[0-9]{3}). So, that means that we can enter telephone number like 845-356-888, or 523-147-951 or anything like that. If we don't follow defined pattern, we will get validation error like we have in example above.

time input type will create time input field.

```
<input type="time" name="timeField" value="08:00" />
```

Lesson 18

Time input field is field where you can enter time in format hours : minutes (hh:mm).

url input type will create url input field.

```
<input type="url" name="urlField" />
```

someaddress.com



Please enter a URL.

Url input field is field where you can enter only valid url addresses. Valid url address is every text that starts with **http://** or **https://**. If we don't follow that rule, we will get validation error like we have in example above.

week input type will create week picker (chooser).

```
<input type="week" name="weekPicker" value="2020-W18" />
```

Week 18, 2020



Week picker is HTML element that is very similar to regular date picker. You can click on it and calendar will be opened and you can choose only week and year for that week.

April 2020 ▾

◀

●

▶

Week	Sun	Mon	Tue	Wed	Thu	Fri	Sat
14	29	30	31	1	2	3	4
15	5	6	7	8	9	10	11
16	12	13	14	15	16	17	18
17	19	20	21	22	23	24	25
18	26	27	28	29	30	1	2



Lesson 18

With value HTML attribute we can set initial year and week for our calendar in format

Year-W WeekNumber

With all these input types that we have in HTML5 and input types that we have mentioned in our previous lesson, that we had before HTML5, we can create various website components. With some additional HTML attributes, we can control all these HTML elements even more, therefore in the next lesson, we will cover various HTML attributes that we use for input element. So, see you there!