Working with User Input

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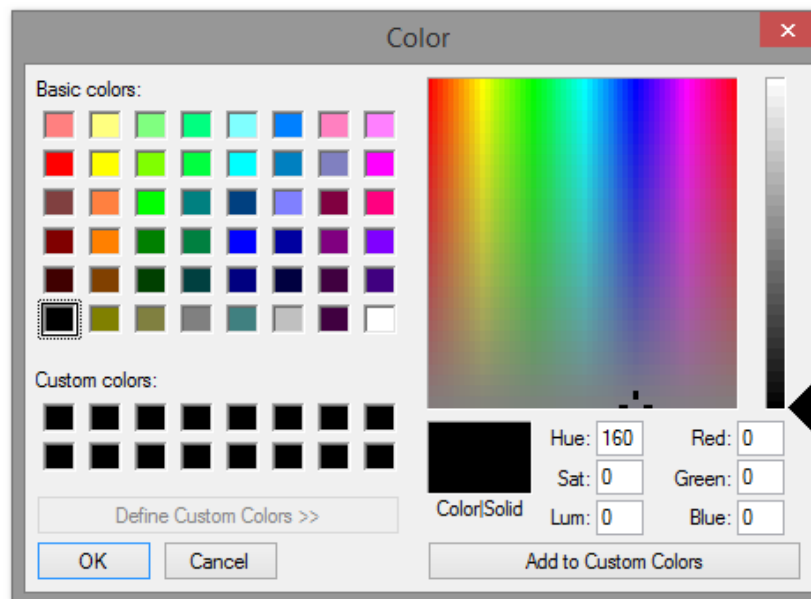# New Elements

Element List

color	email	tel
datalist	month	time
date	number	url
datetime	range	week
datetime-local	search	

Color

Basic colors:

Custom colors:

Define Custom Colors >>

OK   Cancel

Color|Solid

Hue: 160   Red: 0
Sat: 0   Green: 0
Lum: 0   Blue: 0

Add to Custom Colors

CODE:

```
<input type="color" />
```

CODE:

```html
<input list="colors"/>
<datalist id="colors">
  <option value="Blue">
  <option value="Red">
  <option value="Yellow">
  <option value="Orange">
  <option value="White">
</datalist>
```

| Blue |
| Red |
| Yellow |
| Orange |
| White |

CODE:

```
<input type="datetime" />
```

CODE:

```
<input type="datetime-local" />
```

email

CODE:

```
<input type="email" />
```

CODE:

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

phone

CODE:

```
<input type="tel" />
```

1	2 ABC	3 DEF
4 GHI	5 JKL	6 MNO
7 PQRS	8 TUV	9 WXYZ
+*#	0	⌫

March 2016 ▾

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

January	2013
February	2014
March	2015
April	**2016**
May	2017
June	2018
July	2019
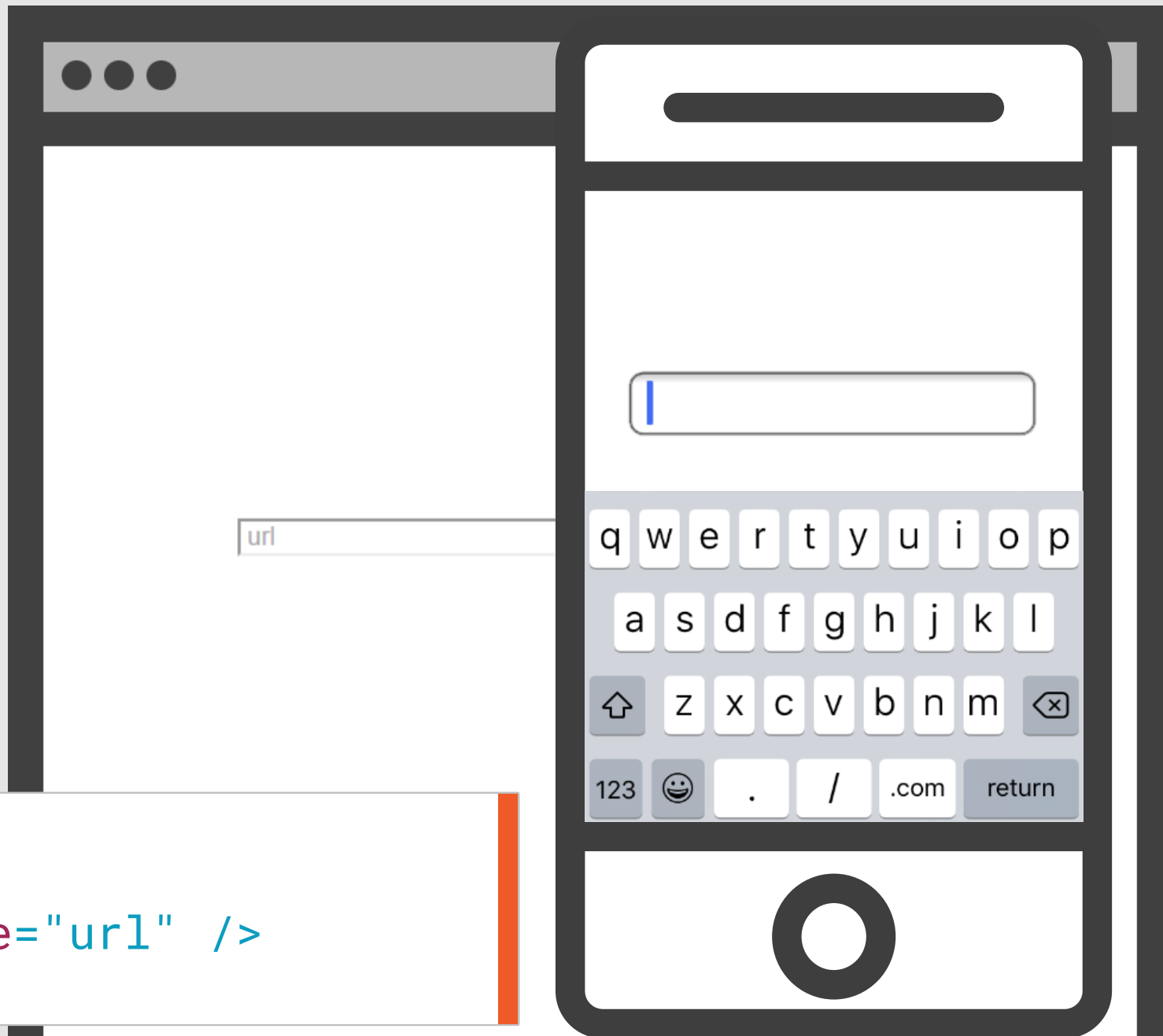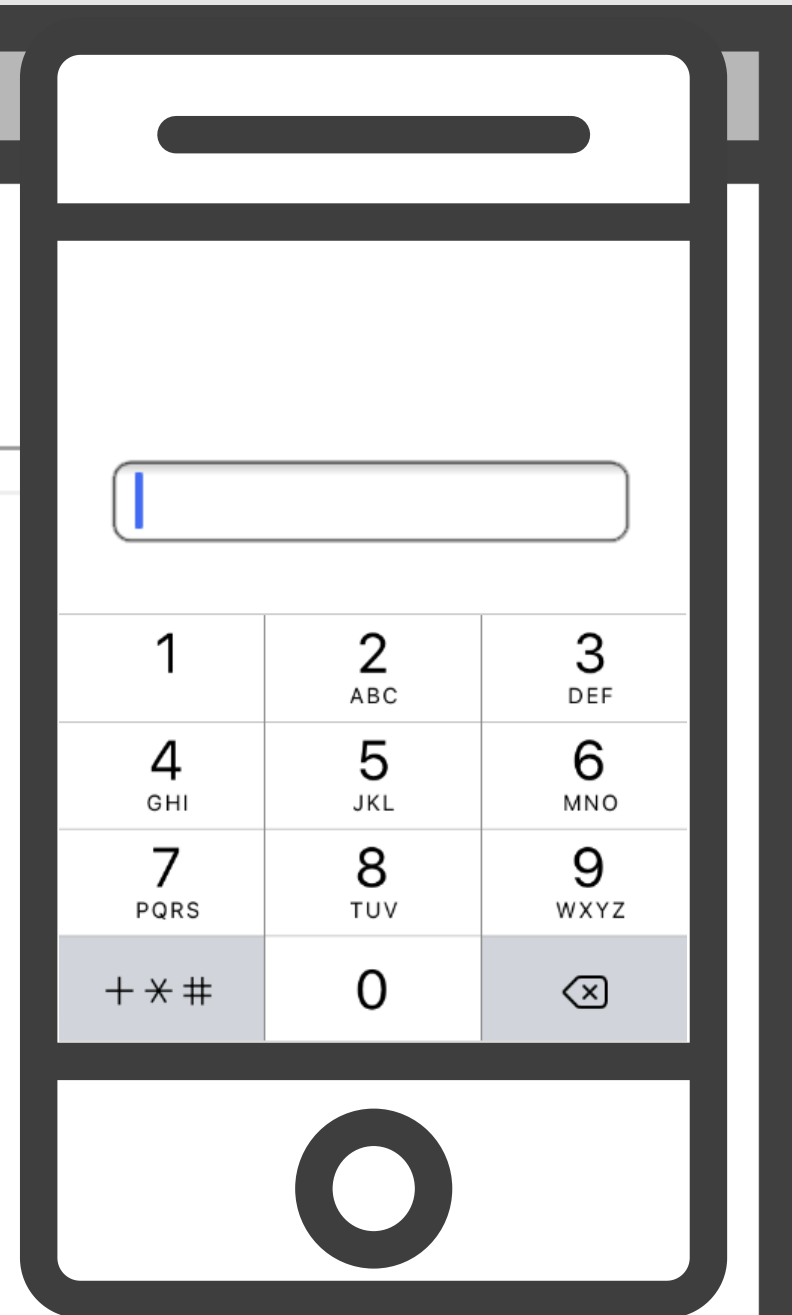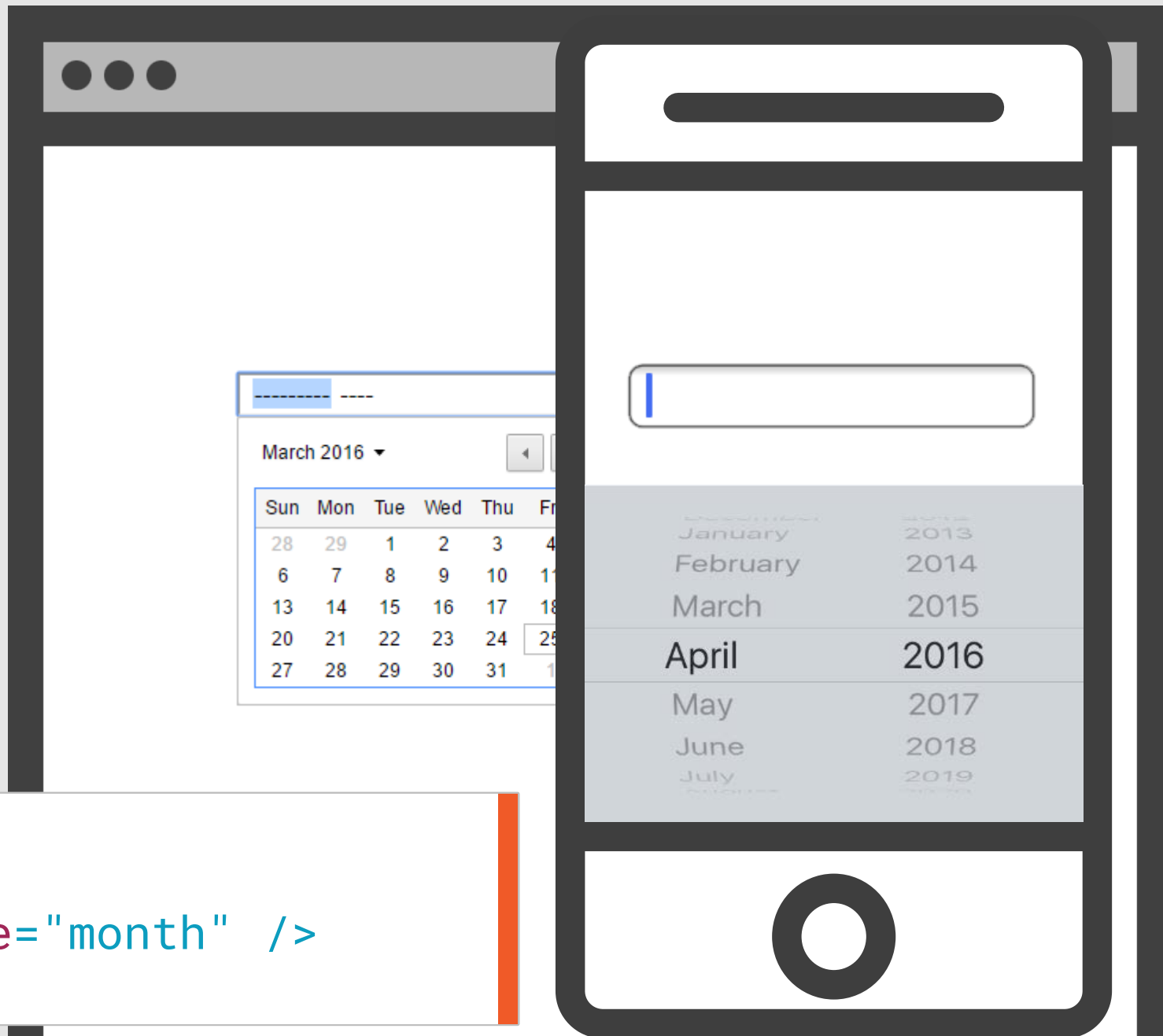
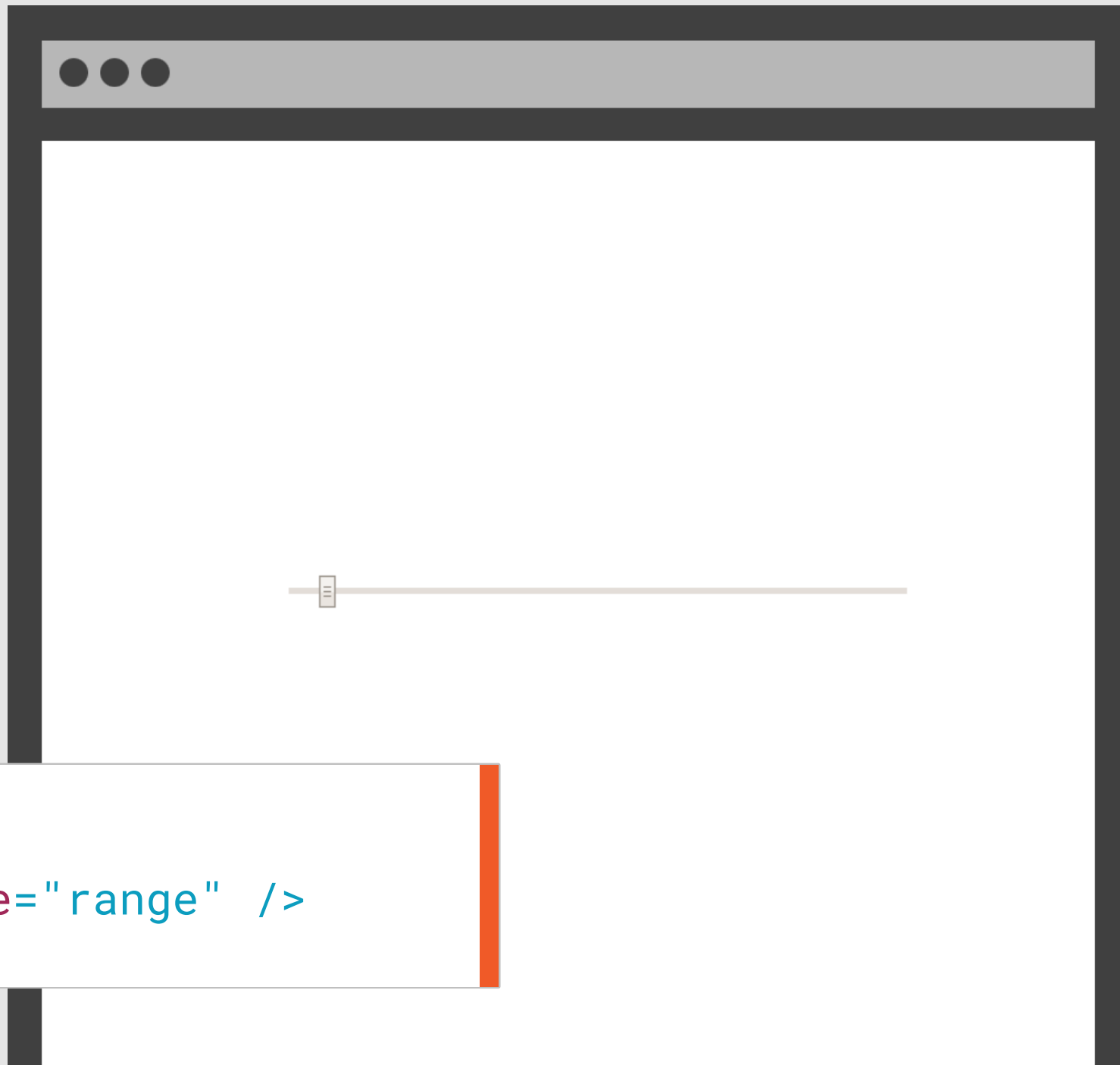**CODE:**

```
<input type="month" />
```
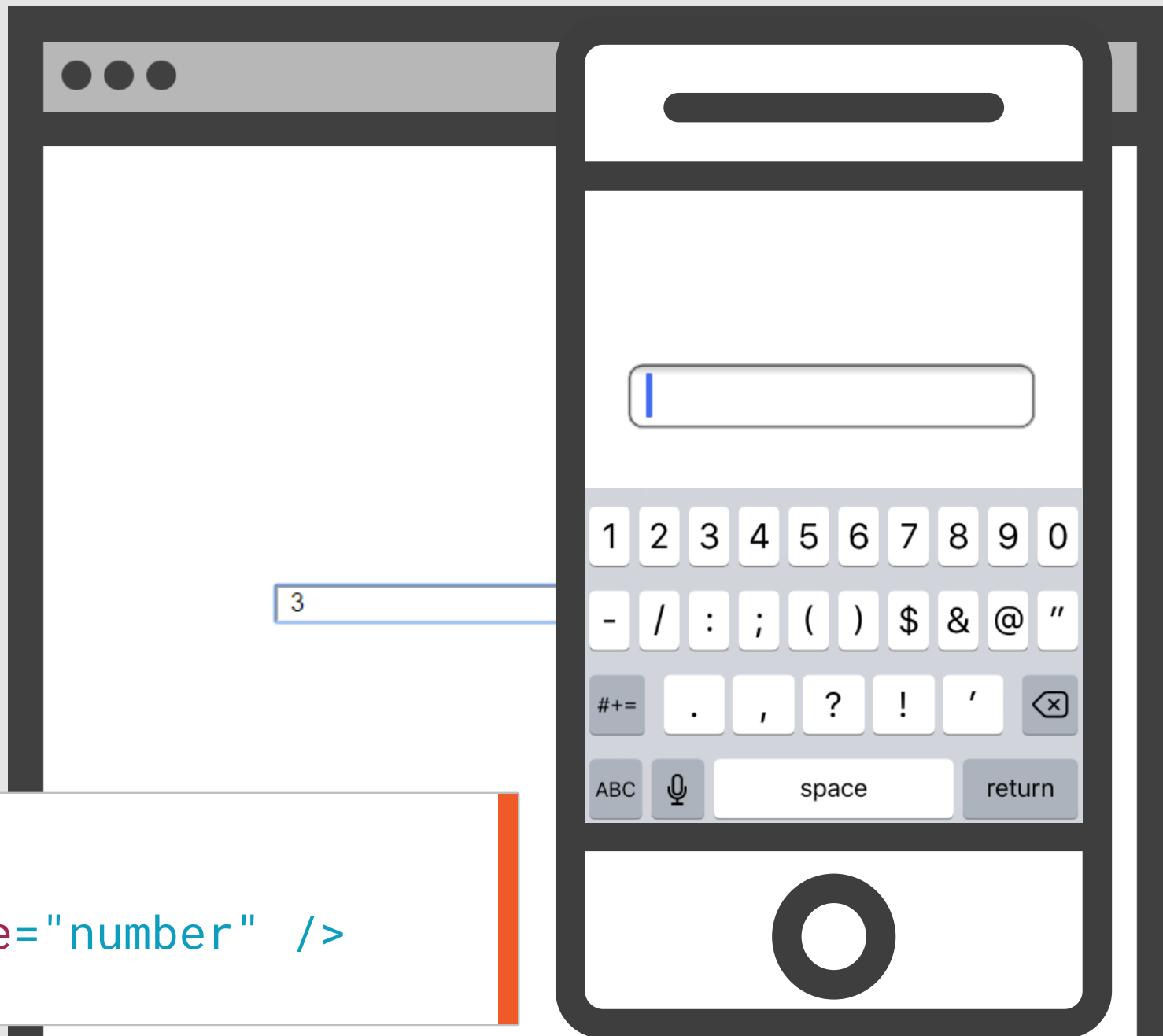
CODE:

```
<input type="number" />
```

CODE:

```
<input type="range" />
```

Week --, ----

March 2016 ▾   ◄ ● ►

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

CODE:

```
<input type="week" />
```

12:10 PM

9   55
10   56
11   57   AM
12   58   PM
1   59
2   00
3   01
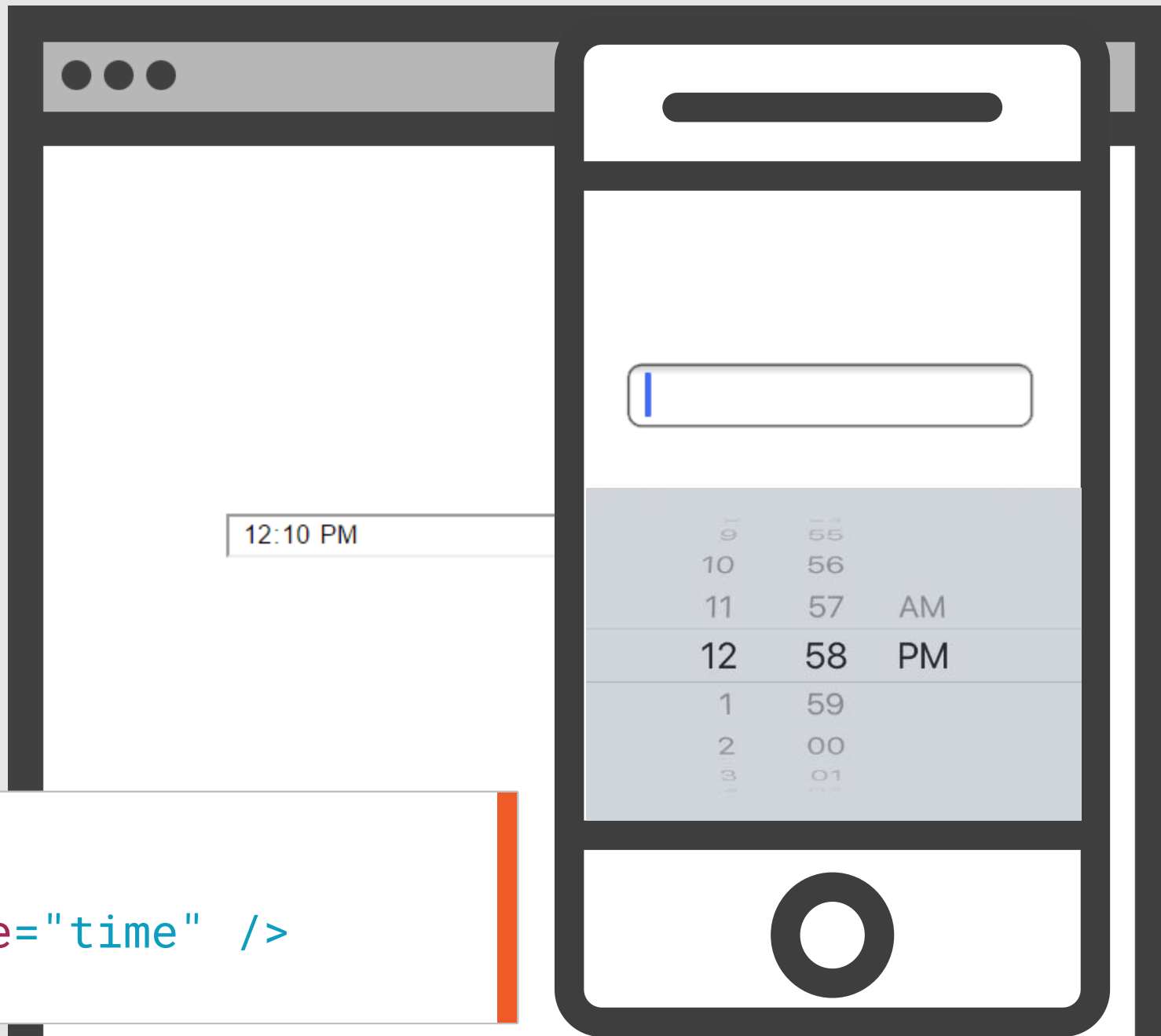
CODE:

```
<input type="time" />
```

CODE:

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

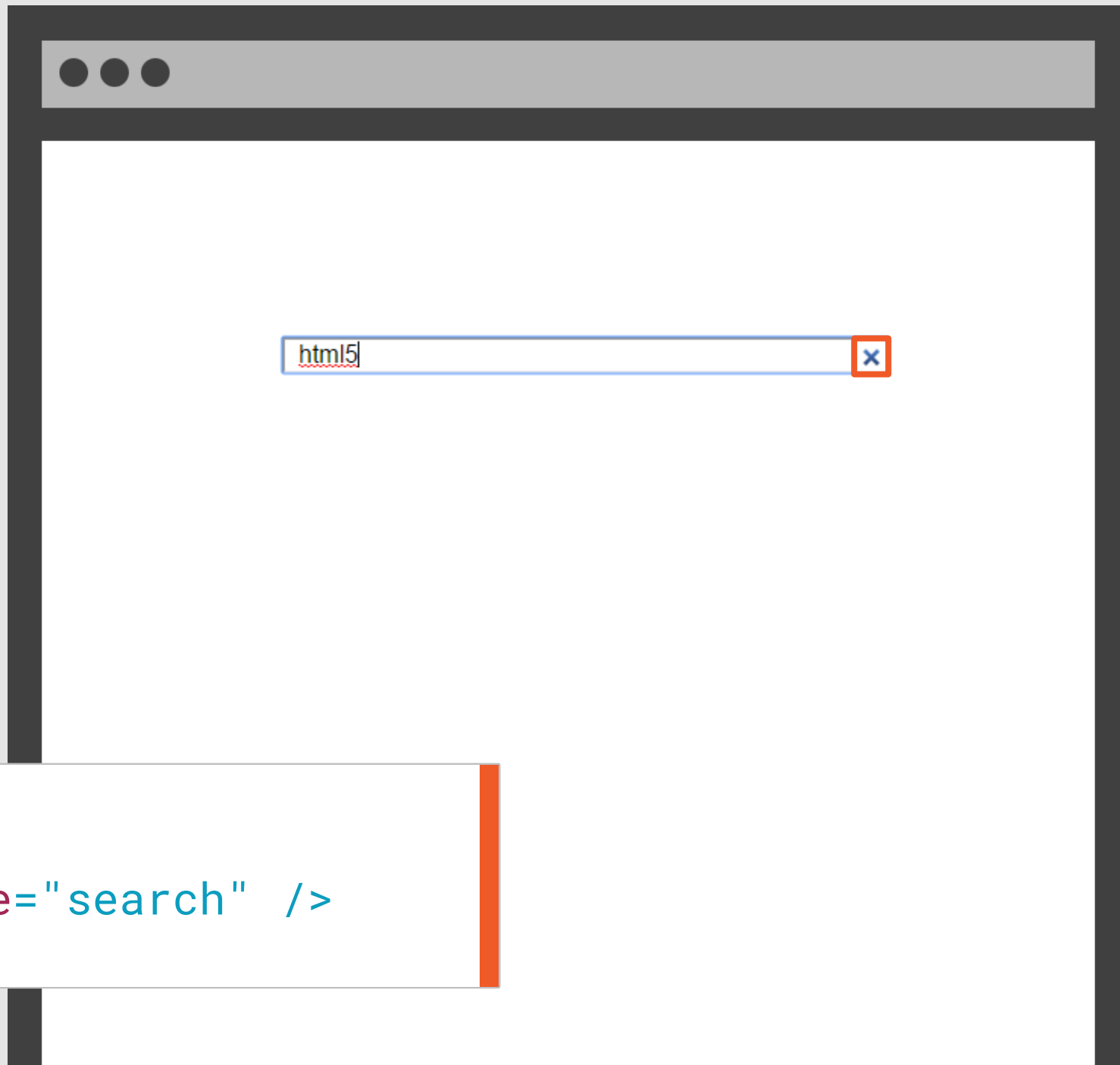Never trust (user) input

Native Validation

username

The username is required.

email address

An email address is required.

CANCEL   LOGIN

Always replicate validation on the server

```html
<input type="text"
required
value="" />
```

Value Missing

true if an element marked as required has an empty value

```
<input type="url"
       value="hi" />
```

Type Mismatch

true when the value is not matched to declared type

Pattern Mismatch

```html
<input type="text"
pattern="/^[A-z]+$/"
value="1234" />
```

true when an element's value doesn't match given regular expression

```
<input type="text"
maxlength="3"
value="hello"/>
```

Too Long

true when an element's value length is longer than the value in the `maxlength` attribute

```
<input type="range"
min="3"
max="5"
value="0" />
```

Range Underflow

`true` when a range type's value is smaller than the `min` attribute

```
<input type="range"
 min="3"
 max="5"
 value="9" />
```

Range Overflow

`true` when a range type's value is greater than the `max` attribute

```
<input type="range"
 min="5"
 max="20"
 step="5"
 value="8" />
```

Step Mismatch

`true` when a range type input's value is impossible given the `step` value

```
<input type="range"
 min="5"
 max="20"
 step="5"
 value="10"/>
```

Valid

true when all other
validation rules return
false

Demo

Form Basics

Demo

Pseudo Classes

Demo

Native Validation

Demo

Custom Validation

Demo

Bootstrap Module
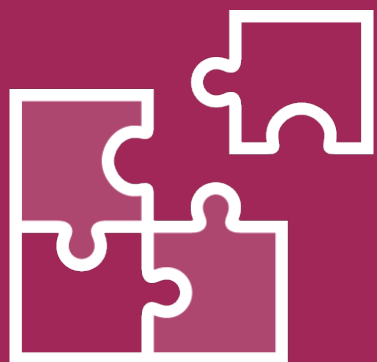
Summary

Working With User Input

New element types

Native validation

Custom validation

Next Module

Music and Video
(without Plugins)