HTML5 Forms Notes Part B

HTML5 input types

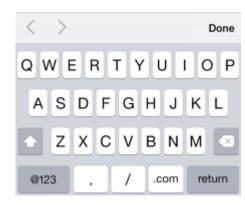
HTML5 introduced a number of new input types. These new input types give hints to the browser about what type of keyboard layout to display for on-screen keyboards. Users are more easily able to enter the required information without having to change their keyboard and only see the appropriate keys for that input type.

Input type

url

For entering a URL. It must start with a valid URI scheme, for example http://, ftp:// or mailto:.

Typical Keyboard



tel

For entering phone numbers. It does **not** enforce a particular syntax for validation, so if you want to ensure a particular format, you can use pattern.



Input type

Typical Keyboard

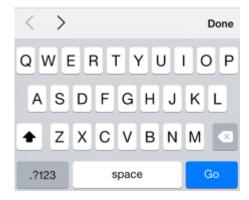
email

For entering email addresses, and hints that the @ should be shown on the keyboard by default. You can add the multiple attribute if more than one email address will be provided.



search

A text input field styled in a way that is consistent with the platform's search field.



number

For numeric input, can be any rational integer or float value.



range

For number input, but unlike the number input type, the value is less important. It is displayed to the user as a slider control.

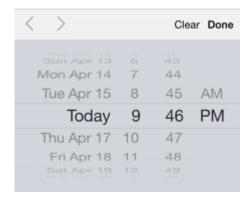


Input type

Typical Keyboard

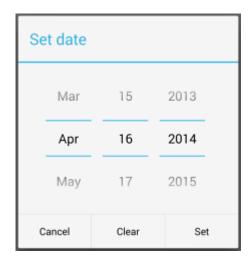
datetime-local

For entering a date and time value where the time zone provided is the local time zone.



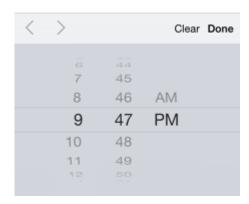
date

For entering a date (only) with no time zone provided.



time

For entering a time (only) with no time zone provided.



Input type

week

For entering a week (only) with no time zone provided.

Typical Keyboard



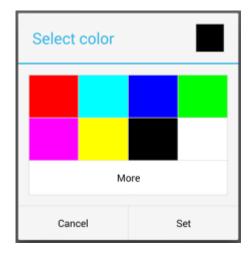
month

For entering a month (only) with no time zone provided.



color

For picking a color.



Offer suggestions during input with datalist

The datalist element isn't an input type, but a list of suggested input values to associated with a form field. It lets the browser suggest autocomplete options as the user types. Unlike select elements where users must scan long lists to find the value they're looking for, and limiting them only to those lists, datalist element provides hints as the user types.

Label and name inputs properly

Forms are hard to fill out on mobile. The best forms are the ones with the fewest inputs. Good forms provide semantic input types. Keys should change to match the user's input type; users pick a date in a calendar. Keep your user informed. Validation tools should tell the user what they need to do before submitting the form

The importance of labels

The label element provides direction to the user, telling them what information is needed in a form element. Each label is associated with an input element by placing it inside the label element, or by using the "for" attribute. Applying labels to form elements also helps to improve the touch target size: the user can touch either the label or the input in order to place focus on the input element.

```
<label for="frmAddressS">Address</label>
<input type="text" name="ship-address" required id="frmAddressS"
   placeholder="123 Any Street" autocomplete="shipping street-address">
```

Label sizing and placement

Labels and inputs should be large enough to be easy to press. In portrait viewports, field labels should be above input elements, and beside them in landscape. Ensure field labels and the corresponding input boxes are visible at the same time. Be careful with custom scroll handlers that may scroll input elements to the top of the page hiding the label, or labels placed below input elements may be covered by the virtual keyboard.

Use placeholders

The placeholder attribute provides a hint to the user about what's expected in the input, typically by displaying the value as light text until the user starts typing in the element.

```
<input type="text" placeholder="MM-YYYY" ...>
Remember
```

Placeholders disappear as soon as the user starts typing in an element, thus they are not a
replacement for labels. They should be used as an aid to help guide users on the required
format and content.

Use metadata to enable auto-complete

Users appreciate when websites save them time by automatically filling common fields like names, email addresses and other frequently used fields, plus it helps to reduce potential input errors – especially on virtual keyboards and small devices.

Browsers use many heuristics to determine which fields they can <u>auto-populate</u> <u>based on</u> <u>previously specified data by the user</u>, and you can give hints to the browser by providing both the name attribute and the autocomplete attribute on each input element.

For example, to hint to the browser that it should auto-complete the form with the user's name, email address and phone number, you should use:

```
<label for="frmNameA">Name</label>
<input type="text" name="name" id="frmNameA"
   placeholder="Full name" required autocomplete="name">
```

```
<label for="frmEmailA">Email</label>
<input type="email" name="email" id="frmEmailA"
  placeholder="name@example.com" required autocomplete="email">

<label for="frmEmailC">Confirm Email</label>
<input type="email" name="emailC" id="frmEmailC"
  placeholder="name@example.com" required autocomplete="email">

<label for="frmPhoneNumA">Phone</label>
<input type="tel" name="phone" id="frmPhoneNumA"
  placeholder="+1-555-555-1212" required autocomplete="tel">
```

Recommended, input name and autocomplete attribute values

autocomplete attribute values are part of the current <u>WHATWG HTML Standard</u>. The most commonly used autocomplete attributes are shown below.

The autocomplete attributes can be accompanied with a section name, such as shipping given-name orbilling street-address. The browser will auto-complete different sections separately, and not as a continuous form.

Content type	name attribute	autocomplete attribute
Name	name fname mname lname	 name (full name) given-name (first name) additional-name (middle name) family-name (last name)
Email	email	email

Content type	name attribute	autocomplete attribute
Address	address city region provin ce statezip zip2 postal co untry	For one address input: o street-address
		o street-address For two address inputs:
		 address-line1 address-line2 address- level1 (state or province) address- level2 (city) postal-code (zip code) country
Phone	phone mobile country- code area- codeexchange suffix ext	tel
Credit Card	ccname cardnumber cvc ccmo nth ccyearexp-date card- type	 cc-name cc-number cc-csc cc-exp-month cc-exp-year cc-exp cc-type
Usernames	username	• username

Content type	name attribute	autocomplete attribute
Passwords	password	 current- password (for sign-in forms) new-password (for sign-up and password-change
		forms)

The autofocus attribute

On some forms, for example the Google home page where the only thing you want the user to do is fill out a particular field, you can add the <code>autofocus</code> attribute. When set, desktop browsers immediately move the focus to the input field, making it easy for users to quickly begin using the form. Mobile browsers ignore the <code>autofocus</code> attribute, to prevent the keyboard from randomly appearing.

Be careful using the autofocus attribute because it will steal keyboard focus and potentially preventing the backspace character from being used for navigation.

```
<input type="text" autofocus ...>
```

Reference

LePage, Pete. "Label and Name Inputs Properly | Web Fundamentals - Google Developers." *Label and Name Inputs Properly | Web Fundamentals - Google Developers*. Google Developers - Web Fundamentals, 02 June 2011. Web. 15 Mar. 2016.

Authors

Pete LePage: Pete is a Developer Advocate

Except as otherwise noted, the content of this page is licensed under the <u>Creative Commons Attribution 3.0</u>
<u>License</u>, and code samples are licensed under the <u>Apache 2.0 License</u>. For details, see our <u>Terms of Service</u>.