

input[week] DIRECTIVE IN ANGULARJS

- **input [week]** is one of the AngularJS input directive in **module ng**.
- AngularJS directive **input [week]** is used to create an HTML input with week-of-the-year validation and transformation to Date.
- The input text must be entered in the format ISO-8601 (i.e. yyyy-W##)
For ex: **2016-W05**.
- In browsers does not yet support the HTML5 time input, instead text element will be used in a valid ISO-8601 local time format.
- The data model must be date object.
- The timezones is used to read/write the **Date** instance in the model by using ngModelOptions.
- This directive executes at priority level 0.

Syntax for input [week] directive in AngularJS:



```
<input type="week"  
      ng-model="string"  
      [name="string"]  
      [min="string"]  
      [max="string"]  
      [ng-min=" "  
      [ng-max=" "  
      [required = "string"]  
      [ng-required = "string"]  
      [ng-change = "string"] >
```

Parameter values:



Parameters	Type	Description
ngModel	string	Defines angular expression to data-bind to.
name (optional)	string	Name of the form under which the control is available
min(optional)	string	To set the min validation error key if the value entered is shorter than min. (e.g “{{ minWeek date :’yyyy-Www’ }}”)
max(optional)	string	To set the max validation error key if the value entered is greater than max. (e.g “{{ maxWeek date : ’yyyy-Www’ }}”)
ngMin (optional)	date, string	To set the min validation constraint to the Date/ISO week string the ngMin expression calculates to. Reminds that it does not set the min attribute.
ngMax (optional)	date, string	To set the max validation constraint to the Date/ISO week string the ngMax expression calculates to. Reminds that it does not set the max attribute.
required (optional)	string	Denotes the required validation error key if the value is not entered.
ngRequired (optional)	string	Sets the required attribute and required validation constraint to the element when the ngRequired expression sets to true. Instead of required use ngRequired when we want data-bind to the required attribute.

ngChange (optional)	string	An expression of Angular to be executed when input changes due to user interaction with the input element.
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Sample coding for input [week] directive in AngularJS

```
<!DOCTYPE html>
<html>
  <head>
    <title>Wikitechy AngularJS Tutorial</title>
    <script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.5.6/angular.min.js">
    </script>
  </head>
  <body>
    <form ng-app="myApp" name="Form" ng-controller="WeekCtrl">
      <h3>input[week] directive example in AngularJS</h3>
      Pick a date in 2016:
      <input type="week" name="input" ng-model="value"
        placeholder="YYYY-W###" min="2015-53" max="2016-W52"
required />
      <span ng-show="Form.input.$error.required">Required!</span>
      <span ng-show="Form.input.$error.week">Not a valid Week!</span>
      <p>Date = {{value | date: "yyyy-Www"}}</p>
      <p>Form.input.$valid = {{Form.input.$valid}}</p>
      <p>Form.input.$error = {{Form.input.$error}}</p>
      <p>Form.$valid = {{Form.$valid}}</p>
      <p>Form.$error.required = {{!!Form.$error.required}}</p>
    </form>
    <script>
      var app = angular.module('myApp', []);
      app.controller('WeekCtrl', function($scope) {
        });
    </script>
  </body>
</html>
```



Code Explanation input [week] directive in AngularJS:

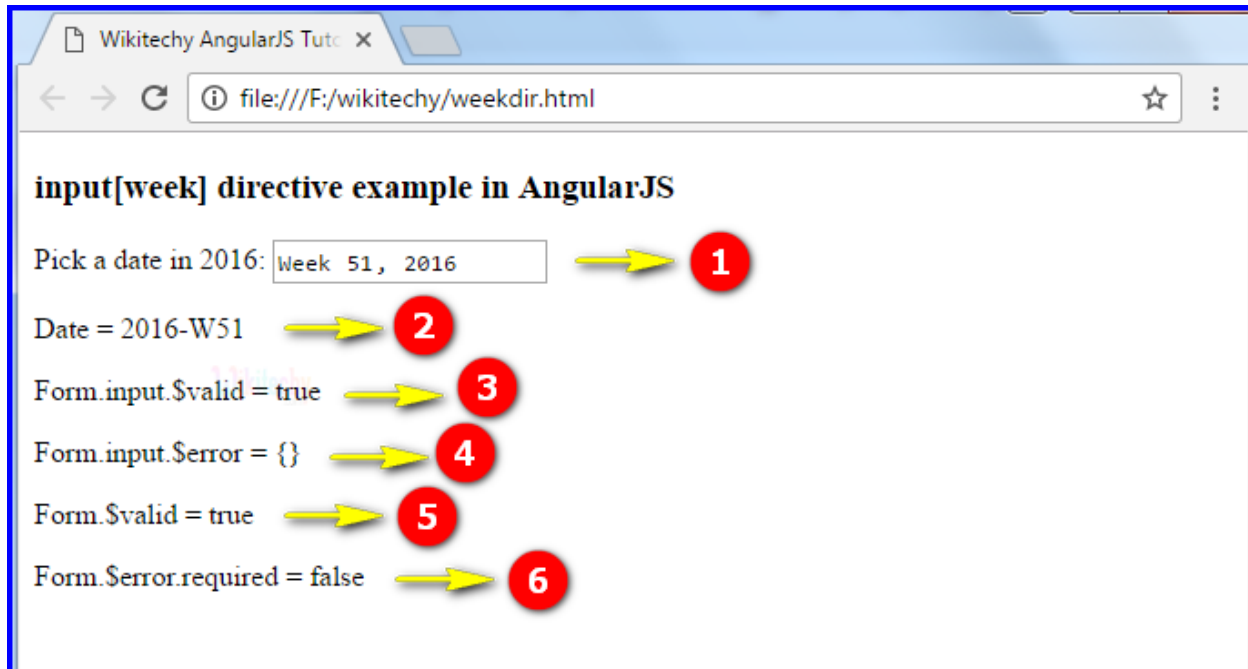
```
<!DOCTYPE html>
<html>
  <head>
    <title>Wikitechy AngularJS Tutorial</title>
    <script src="https://ajax.googleapis.com/ajax/libs/angularjs/
      1.5.6/angular.min.js"></script>
  </head>
  <body>
    <form ng-app="myApp" name="Form" ng-controller="WeekCtrl">
      <h3>input[week] directive example in AngularJS</h3>
      Pick a date in 2016:
      <input type="week" name="input" ng-model="value"
        placeholder="YYYY-W##" min="2015-53" max="2016-W52" required />
      <span ng-show="Form.input.$error.required">Required!</span>
      <span ng-show="Form.input.$error.week">Not a valid Week!</span>
      <p>Date = {{value | date: "yyyy-Www"}}</p>
      <p>Form.input.$valid = {{Form.input.$valid}}</p>
      <p>Form.input.$error = {{Form.input.$error}}</p>
      <p>Form.$valid = {{Form.$valid}}</p>
      <p>Form.$error.required = {{!!Form.$error.required}}</p>
    </form>
    <script>
      var app = angular.module('myApp', []);
      app.controller('WeekCtrl', function($scope) {
      });
    </script>
  </body>
</html>
```

1. The **ng-app** specifies the root element (“**myapp**”) to define AngularJS application.
2. Ng-controller specifies the application controller in AngularJS the controller value is given as “**WeekCtrl**”.
3. “**week**” is declare the **type** value of the <input> tag.
4. The **ng-model** bind an input field value to AngularJS application variable (“**value**”).



5. **Placeholder** is used to declare the time format (Like "YYYY-W##").
6. **min** parameter is used to declare the start week value(2015-53)
7. **max** parameter is used to declare the end week value(2016-52)
8. ng-show directive is used to hides HTML elements. If the required directive shows an error the content is displayed like "**Required**"
9. ng-show directive is used to hides HTML elements. If the required directive shows an error the content is displayed like "**Not a Valid week**"
10. Here the date filter formats a date into specified format (YYYY-Www) and the output will be updated in the <p> tag.
11. **Form.input.\$valid** to checks the correct week format or not. If the user scroll week and year in the input field then the output will be displays as true otherwise false.
12. **Form.input.\$error** to check whether the valid week format or not .If the url specified in error it throw an exception (Like "required"="true) otherwise it is an empty curly braces ({}).
13. **Form.\$valid** is used to check whether the form is valid or not and output will be displayed in <p> tag.
14. **Form.\$error.required** is used to check whether week is required or not. If the week is required and output will be displays as false otherwise true.

Sample Output input[week] directive in AngularJS:



input[week] directive example in AngularJS

Pick a date in 2016: → 1

Date = 2016-W51 → 2

Form.input.\$valid = true → 3

Form.input.\$error = {} → 4

Form.\$valid = true → 5

Form.\$error.required = false → 6

1. If the user scroll the week and year in the input field.
2. The output displays as **Date=2016-W51**.
3. The output displays true because it is consider as a week.
4. The output displays empty curly braces it means does not thrown any error.
5. The output displays true it is valid date.
6. If the text box does not empty so the output displays as false.



1. If the user does not scroll any value in the input field and the output shows an error **"Required"**.



1. If the user does not type year in the input field and the output displays as **Not a valid Week!**.