Forms & Input Elements



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What This Module Covers



Date-based input types

Data binding options

Rolling back changes

Submission detection

Binding to getters and setters

Date-Based Input Types

Angular 1.2.x

```
<input type="text"
id="inputStartDate">
```

Angular 1.3

```
<input type="date"
id="inputStartDate">
```

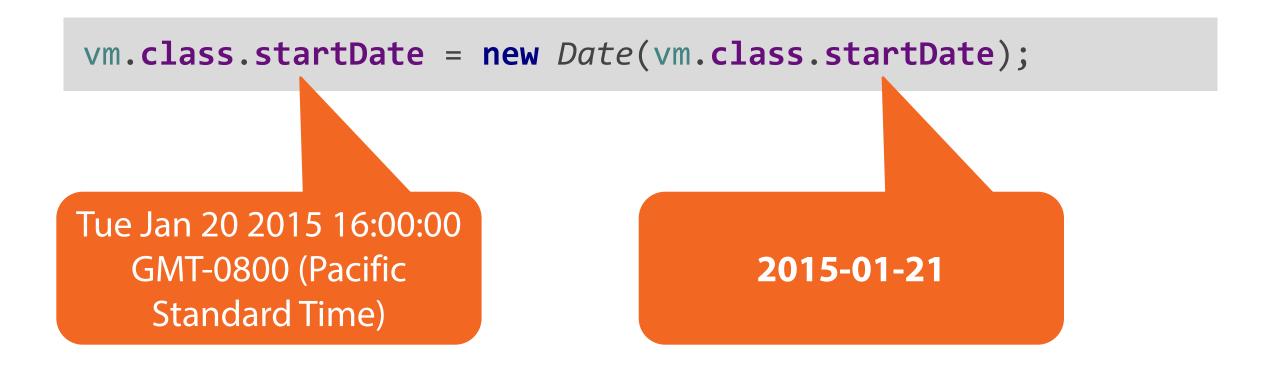
Also:

- "time"
- "datetime-local"
- "month"
- "week"

JSON

```
"classId": 4,
    "className": "Middle Earth: A History",
    "startDate": "2015-01-21",
    "endDate": "2015-05-10",
    "instructorEmail": "took@pcc.edu",
    "description": "Relive Middle Earth adventures through
tales and songs."
```

Convert to Date



Formatted to a Localized Date



<input
 class="form-control"
 type="date"
 id="inputStartDate"
 name="inputStartDate"
 ng-model="vm.class.startDate">

Tue Jan 20 2015 16:00:00 GMT-0800 (Pacific Standard Time)

Date-Based Input Types



input type="text" still works
input type="date" works better ...
... but requires a Date object

Data Binding Options

Angular 1.2.x

No options

Angular 1.3

```
<input
    type="email"
    id="inputInstructorEmail"
    name="inputInstructorEmail"
    ng-model="vm.class.instructorEmail"
    ng-model-options="{updateOn: 'blur'}"/>
```

Default Data Binding

Instructor's Email

took

took

```
<input
  class="form-control"
  type="email"
  id="inputInstructorEmail"
  name="inputInstructorEmail"
  ng-model="vm.class.instructorEmail"/>
```

Default Data Binding

Instructor's Email

t

Invalid Email Address

```
<input
  class="form-control"
  type="email"
  id="inputInstructorEmail"
  name="inputInstructorEmail"
  ng-model="vm.class.instructorEmail"/>
```

Data Binding with Model Options

Instructor's Email

took

```
<input
  class="form-control"
  type="email"
  id="inputInstructorEmail"
  name="inputInstructorEmail"
  ng-model="vm.class.instructorEmail"
  ng-model-options="{updateOn: 'blur'}"/>
```

Data Binding with Model Options

Instructor's Email

took

took

```
<input
  class="form-control"
  type="email"
  id="inputInstructorEmail"
  name="inputInstructorEmail"
  ng-model="vm.class.instructorEmail"
  ng-model-options="{debounce: 1500}"/>
```

Data Binding with Model Options

```
Instructor's Email
```

Data Binding Options



Use model options for finer control over model updates:

updateOn

debounce

Use ngSubmit

More model options later

Angular 1.2.x

Manual process

Angular 1.3

control.\$rollbackViewValue();

Instructor's Email

took@pcc.edu

took@pcc.edu

```
<input
  class="form-control"
  type="email"
  id="inputInstructorEmail"
  name="inputInstructorEmail"
  ng-model="vm.class.instructorEmail"
  ng-model-options="{updateOn: 'blur'} />
```

Instructor's Email

took@pcc.edu

took@pcc.edu

```
<input
  class="form-control"
  type="email"
  id="inputInstructorEmail"
  name="inputInstructorEmail"
  ng-model="vm.class.instructorEmail"
  ng-model-options="{updateOn: 'blur'}
  ng-keyup="vm.cancelEntry(classForm.inputInstructorEmail, $event)"/>
```

cancelEntry Method

```
vm.cancelEntry = function (control, event) {
   if (event.keyCode == 27) {
      control.$rollbackViewValue();
   }
};
```

Rolling Back All Form Changes

Set module options at the form level

Add undo/reset button to rollback all of the input elements

```
<form
  class="form-horizontal"
  name="classForm"
  ng-submit="vm.submit()"
  ng-model-options="{updateOn:'submit'}"
  novalidate>
<but
 class="btn btn-default"
  style="width:70px"
  ng-click="classForm.$rollbackViewValue()">
   Reset
</button>
```



Use \$rollbackViewValue to roll back an input element to the model value

Also useful for updating the view if the model changes behind the scenes

Can be used at the form level

Only needed when using model options.

Submission Detection

Angular 1.2.x

Angular 1.3

Detect dirty/pristine, valid/invalid

Detect submission \$submitted

Submission Detection



Use \$submitted to

Display a message

Perform an operation

After the user has submitted the form

Getter/Setter Function

```
var startDate = new Date(vm.class.startDate);
vm.class.dates = {
    startDate: function(value){
        if (angular.isDefined(value))
            startDate=value;
            vm.class.startDate= startDate;
        return startDate;
```

Binding to a Getter/Setter Function

Angular 1.2.x

Manual process

Angular 1.3

Defined with a model option

{ getterSetter: true }

Binding to a Getter/Setter Function



Use the getterSetter model option to bind to a getter/setter function

Use at the form level to bind to getter/setter functions for all input elements

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