Framework

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Agenda

- DataSource
- MVVM
- Templates
- Validator

DataSource

- Abstraction for client-side data
- Local and remote data
- CRUD
- Sorting, Paging, Grouping, Aggregates

Local Data

Remote Data

```
<script type="text/javascript">
      $(document).ready(function () {
         var twitterSearch = new kendo.data.DataSource({
              transport: {
                  read: {
                      url: "http://search.twitter.com/search.json",
                      dataType: "jsonp",
                      data: { q: "#kendoui" }
              },
              schema: { data: "results" }
         });
     });
</script>
```

OData

MVVM Framework

- Declarative bindings
- Automatic two-way data synchronization
- Dependent properties
- Fast

ViewModel

- Representation of your data (Model)
- Displayed via the View
- Declared using the kendo.observable function

```
var viewModel = kendo.observable({
    make: "Ferrari",
    model: "California",
    messageIsVisible: function () {
       return this.get("make").length != 0;
    }
});
```

Templates

- Reusable chunks of HTML
- Can be automatically merged with JavaScript data
- Emphasis on performance
- Hash (#) syntax
 - □ Render literal values: #= #
 - Render HTML-encoded values: #: #
 - □ Render JavaScript code: # #

Validator

- Client-side form validation
- Built on HTML5 form validation
- Built in rules
- Custom rules

Summary

- DataSource provides an abstraction
- MVVM gives us automatic two-way data synchronization
- Templating for reusable chunks of HTML
- Validator for client-side validation