„HTML is great for declaring static documents, but it falters when we try to use it for declaring dynamic views in web-applications. **AngularJS** lets you extend HTML vocabulary for your application. The resulting environment is **extraordinarily expressive**, **readable**, and **quick to develop**."

"Angular is what HTML would have been had it been designed for applications."

Wann macht der Einsatz von AngularJS Sinn?

Warum AngularJS?

Hohe Entwicklungsgeschwindigkeit

AngularJS liefert ein Framework um
Produktiv arbeiten zu können

Open Source

AngularJS basiert auf **jQuery** und
ist unter der MIT License lizensiert

Bequeme Handhabung

AngularJS setzt auf **Two-Way-Databinding**

Zukunftssicher

AngularJS wird aktiv von **Google** weiterentwickelt

Standard

Große Community die sich an der Tool und Library Entwicklung beteiligt

Mobil

Unterstützung von mobilen Endgeräten

Model-View-Controller Architektur

Bootstrap Support durch AngularUI
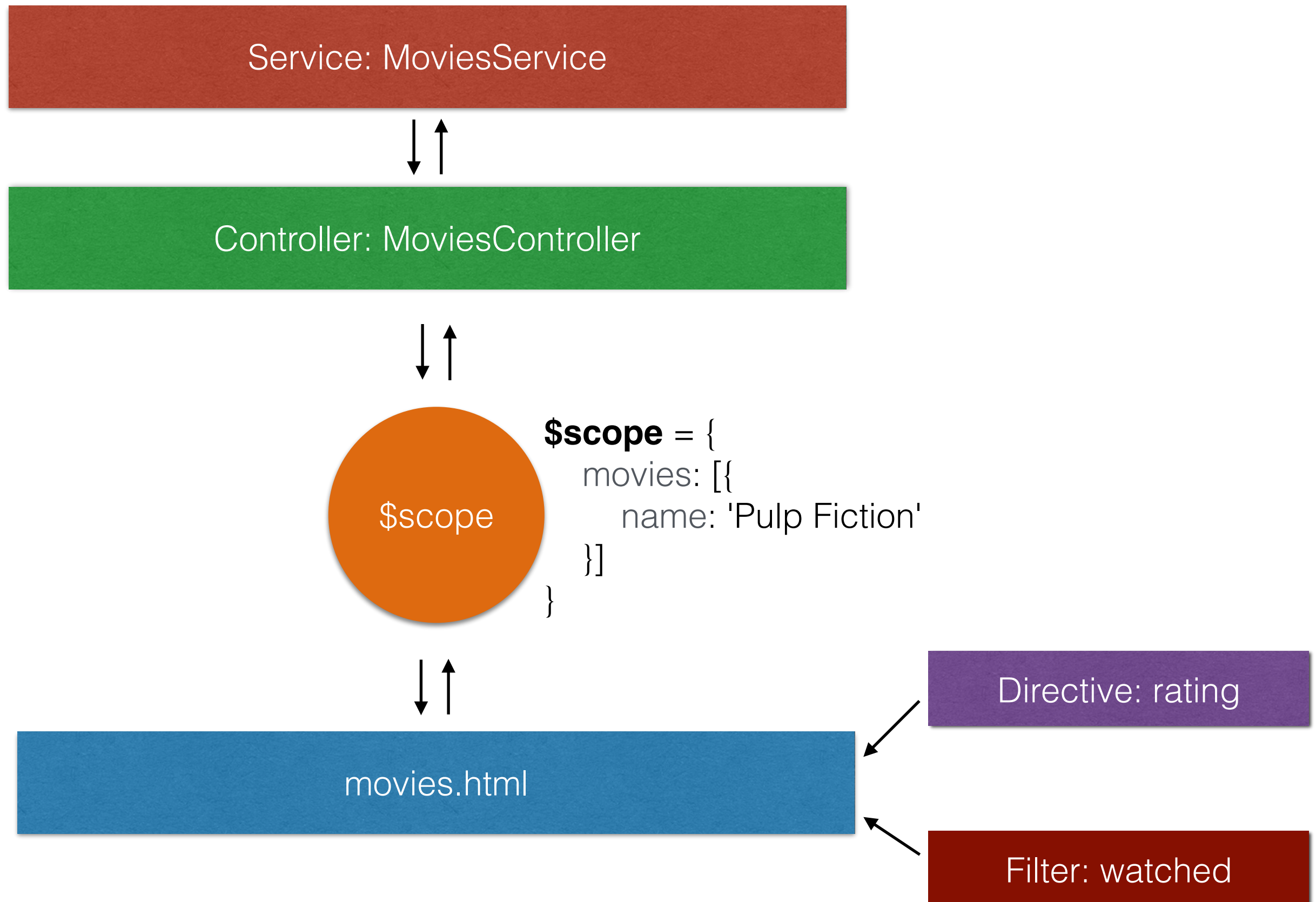Alle Bootstrap Komponenten als Erweiterung für Angular

AngularJS generator
Yeoman generator für Angular

IDE Plugins
Plugins für Sublime, Textmate und WebStorm

Architektur

App.js

```javascript
MovieDB.App.config(['$routeProvider', function($routeProvider) {
    $routeProvider.
        when('/', {
            templateUrl: MovieDB.Config.templateUrl + 'movies.html',
            controller: 'MoviesController'
        }).
        otherwise({redirectTo: '/'});
}]);

MovieDB.App.run([function () {
    // initialise the app
}]);
```

```
MovieDB.App.factory('Movies', function($http, $rootScope) {
    var movies = [{
            name: 'Pulp Fiction',
            year: '1994',
            rating: 4.5,
            watched: 1
    }];
    return {
        getAll: function() {
            return movies;
        }
    };
});
```

Controller

```
MovieDB.App.controller('MoviesController', function($scope, Movies) {
    $scope.movies = Movies.getAll();
});
```

Templates

```
<tr ng-repeat="movie in movies">
    <td><a href="">{{movie.name}}</a></td>
    <td>{{movie.year}}</td>
    <td>
        <rating></rating>
    </td>
    <td>
        {{movie.watched | watched}}
    </td>
    <td>
        <span class="label" ng-repeat="tag in movie.tags">
            {{tag.name}}
        </span>
    </td>
</tr>
```

Directives

```javascript
MovieDB.App.directive('rating', function () {
    return {
        restrict: 'E',
        link: function (scope, element, attrs) {
            var $star = $('<span class="icon icon-star"></span>');
            var rating = Math.round(scope.movie.rating);
            for(var i = 0; i < rating; i++) {
                element.append($star.clone());
            }
        }
    };
});
```

```javascript
MovieDB.App.filter('watched', function () {
    return function(watched) {
        if(watched === 0) return 'never';
        if(watched === 1) return 'just once';
        if(watched > 1) return watched + ' times';
    };
});
```

Verwendetes Codebeispiel:

https://github.com/nerdbeere/angular-architecture-example.git