

FUTURE DECODED

6-7 OTT '16 / MILANO

IN PARTNERSHIP WITH:



CommunityDays.it

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Sviluppare SPA con Aurelia

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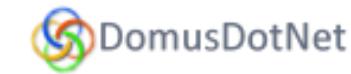
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Chi sono?



- Project Manager e Software Architect @ Proge-Software
- Fondatore @ DomusDotNet
- Collaboratore @ GetLatestVersion
- blog.ugidotnet.org/akelitz
- [@akelitz](https://twitter.com/akelitz)



Prerequisiti

- HTML/CSS
- SPA
- MVVM
- ES2015/ES2016
- NPM/JSPM

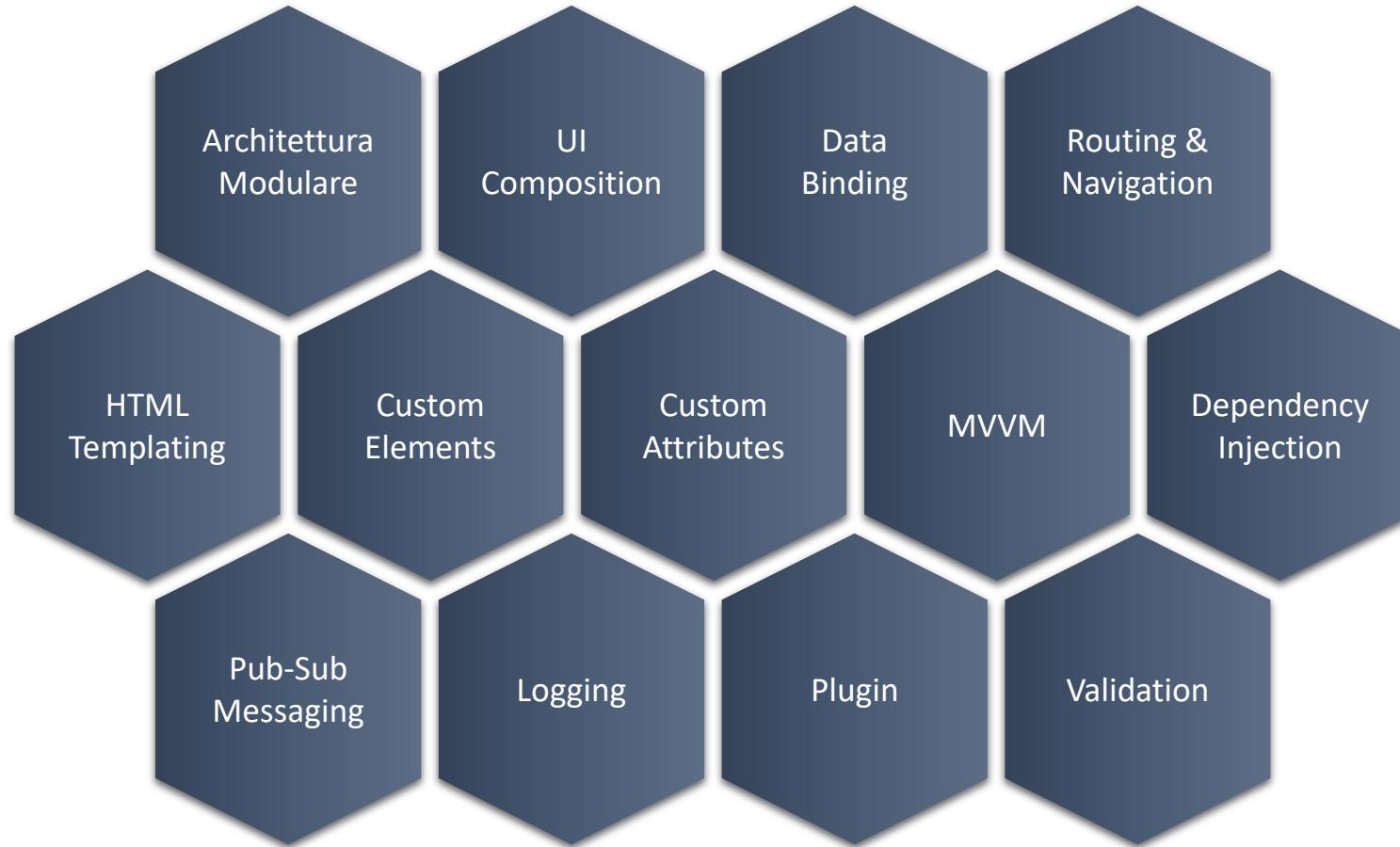
Agenda

- Cos'è Aurelia?
- Demo
 - Binding
 - Composition
 - Dependency Injection
 - Routing & Navigation
 - ...
- Q&A

Cos'è Aurelia?

- Framework JS per la realizzazione di Rich Interactive client Application
- Insieme di librerie JS moderne e modulari
 - Scritto interamente in ES2016
 - Progettato come rete di librerie
- Usa il pattern Model-View-ViewModel (MVVM)
- Convention over configuration
- Pensato per girare nei Browser Evergreen

Caratteristiche di Aurelia



DEMO

Binding

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Binding

```
<div class="splash">
  <div class="message" title="Salve, ${tooltip}">
    <p>${message}</p>
  </div>
</div>
<div class="binding">
  <div>In agenda abbiamo:</div>
  <ul>
    <li repeat.for="topic of agenda">${topic}</li>
    <li>... e molto altro</li>
  </ul>
  Chi sei? <input type="text" value.bind="name" />
  <span if.bind="name != ''">
    <button click.delegate="sayHello()">Ciao!</button>
  </span>
</div>
```

The background image shows a vibrant city at night. In the foreground, a multi-lane highway curves through the frame, with streaks of red and white lights from passing vehicles creating dynamic diagonal lines. To the right, a modern elevated walkway or bridge is visible, adorned with pink and purple lights. The background is filled with numerous skyscrapers, their windows glowing with blue and white lights, creating a dense grid of vertical lines.

DEMO

Composition

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Composition

```
<compose view-model="app"></compose>  
  
<compose view="footer.html"></compose>  
  
<div repeat.for="tweet of tweets">  
    <compose model.bind="tweet" view="tweets-tweet.html"></compose>  
</div>
```

DEMO

Dependency Injection

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Dependency Injection

```
import {inject} from 'aurelia-framework';
import {Repository} from '/_services/repository';

@inject(Repository)
export class Speakers {
    constructor(repository) {
        this.repository = repository;
    }
}
```

DEMO

Routing & Navigation

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Routing & Navigation

```
<div class="container-fluid page-host">
  <div class="col-xs-10">
    <router-view></router-view>
  </div>
  <div class="col-xs-2">
    <compose view-model="tweets"></compose>
  </div>
</div>
```

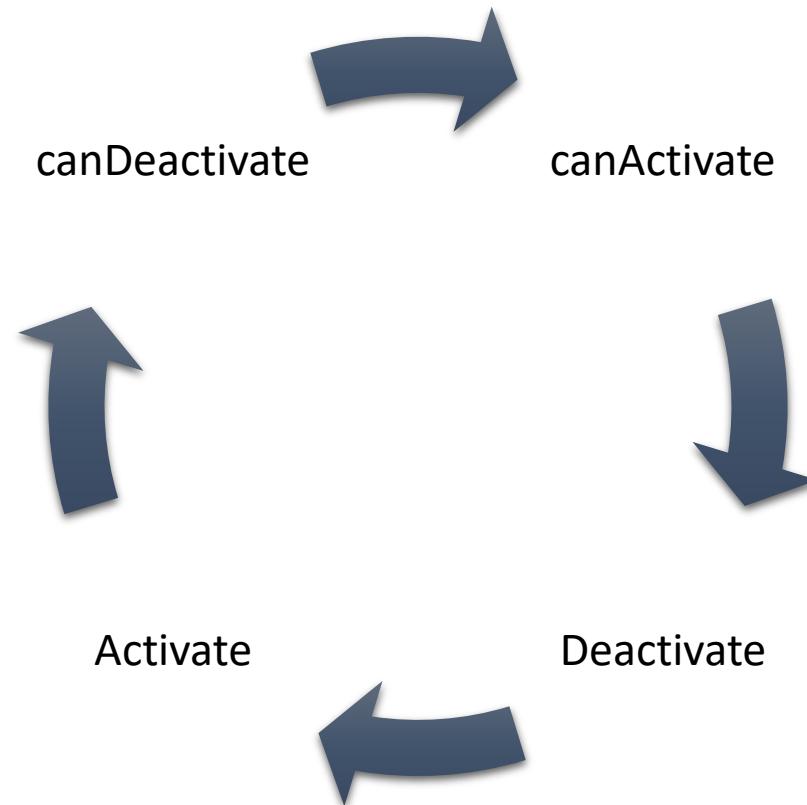
```
configureRouter(config, router) {
  this.router = router;
  config.title = 'Aurelia @ Future Decoded';
  config.map([
    {
      route: ['', 'sessions'],
      name: 'sessions',
      moduleId: 'sessions/sessions',
      nav: true,
      title: 'Sessions'
    },
    { route: 'session/:id', name: 'session' },
    { route: 'speakers', name: 'speakers' }
  ]);
}
```

Routing & Navigation

```
activate(params, routeConfig) {
  this.repository.getSession(parseInt(params.id))
    .then(session => {
      this.session = session;
    })
}

sessions.forEach(s => {
  s.url = this.router.generate('session', { id: s.id });
});
```

Screen Activation Lifecycle



... verso l'infinito ed oltre!

- ViewPort
- Nested Routes
- Activation Strategy
- PushState
- Custom Navigation Pipeline Steps

DEMO

ValueConverters & Binding Behaviors

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ValueConverters

```
export class DateFormatValueConverter {  
    toView(value, format) {  
        format = format || 'DD/MM/YYYY HH:mm';  
        return moment(value)  
            .format(format);  
    }  
}
```

```
<update>  
<require from="/_components/DateFormat"></require>  
  
<div class="row">  
    <div class="col-md-12">  
        <h1>${session.title}</h1>  
        <h2>${session.speaker.firstName} ${session.speaker.lastName}</h2>  
        <h3>${session.dateTime} | dateFormat : 'D/M H:mm' </h3>  
    </div>
```

Binding Behaviors

```
<div class="composition">  
  ${now & throttle : 2000 }  
</div>
```

DEMO

Custom Elements & Attributes

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Custom Elements

```
import {bindable} from 'aurelia-framework';

export class NavBar {
    @bindable router;
}

<template bindable="router">
<div>
    <require from="nav-bar.html"></require>
    <nav-bar router.bind="router"></nav-bar>
</div>
</template>
```

Risorse utili

- Sito ufficiale
 - <http://aurelia.io>
- Leanpub
 - <https://leanpub.com/beginning-of-aurelia>
 - <https://leanpub.com/aurelia-for-real-world-applications>
 - <https://leanpub.com/practical-aurelia>
- Pluralsight
 - <https://app.pluralsight.com/library/courses/aurelia-fundamentals/table-of-contents>
 - <https://app.pluralsight.com/library/courses/building-applications-aurelia/table-of-contents>
- <http://blogs.ugidotnet.org/akelitz>

A wide-angle night photograph of a city skyline, likely Hong Kong, featuring numerous skyscrapers with illuminated windows. In the foreground, a multi-lane highway curves through the frame, with long exposure light trails from vehicles creating streaks of red, white, and yellow. A green overpass or bridge is visible on the right side.

Domande?

Materiale su

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