

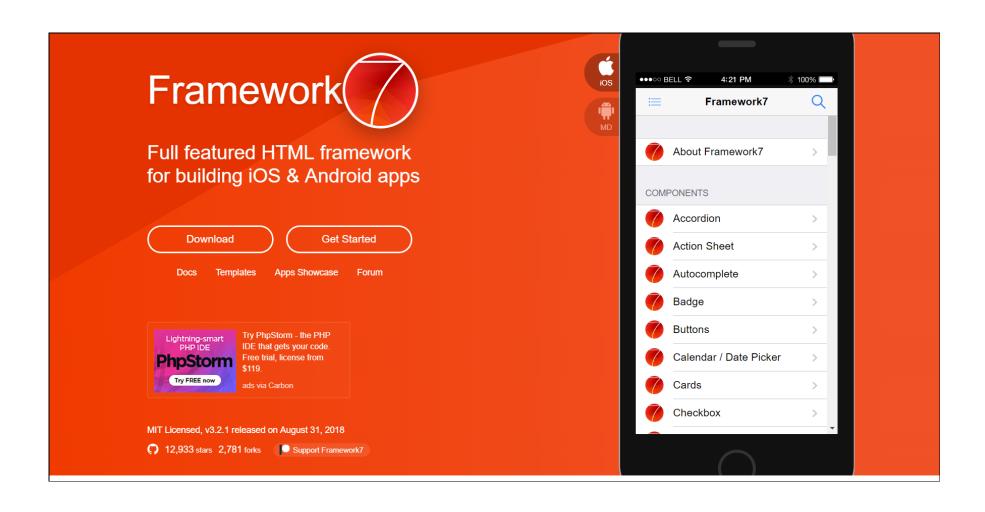
#### Ministerie van Defensie

# Crossplatform Mobile Apps Module 2 – Framework 7

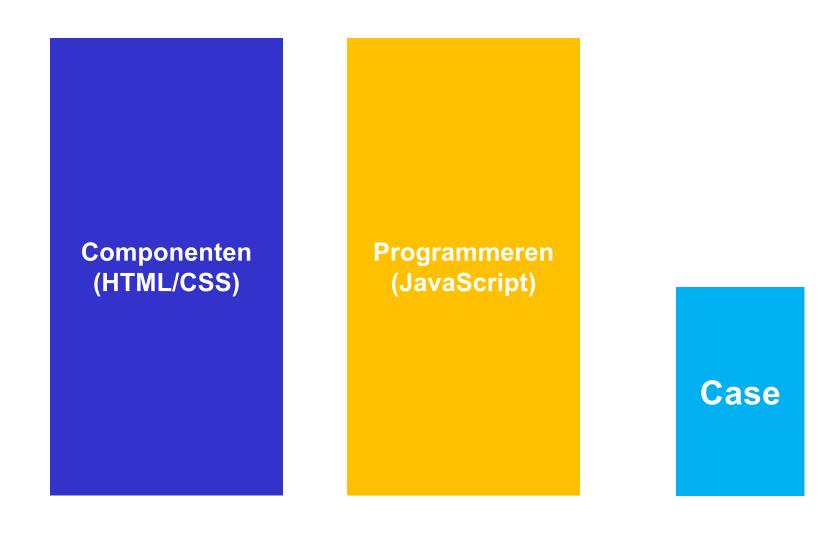


Peter Kassenaar – info@kassenaar.com

# **Onze keuze, Framework 7**



### Framework 7 ook weer: 2 delen



# **Oefeningen**

- Demo eerste site/app maken.
- Daarna zelf doen.

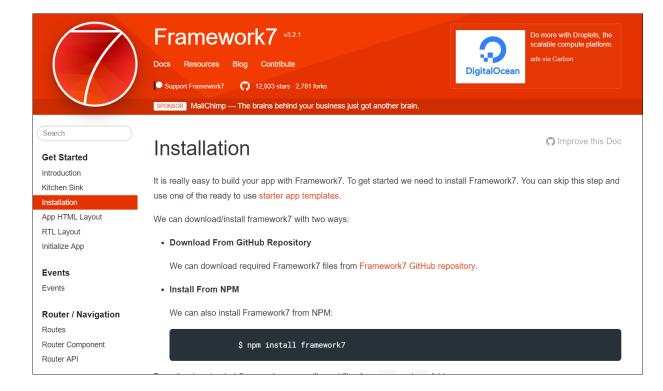


```
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```

### **Getting Started**

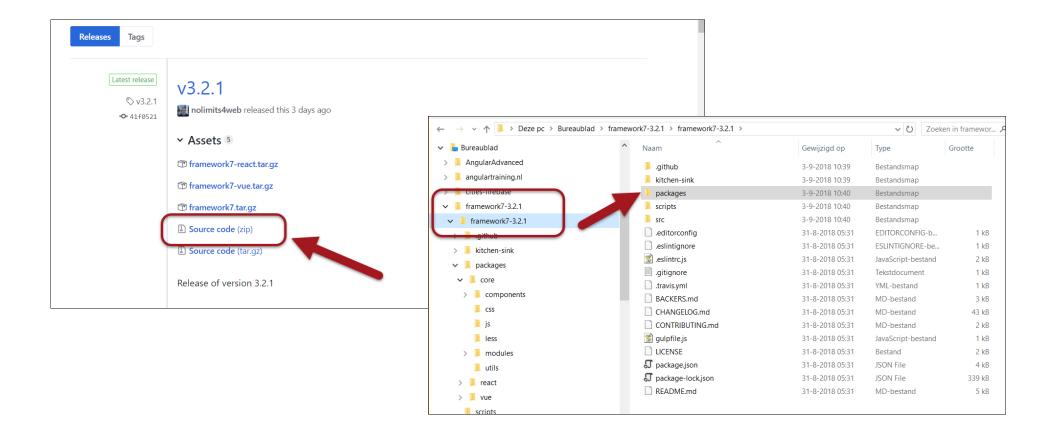
- Download & installatie kan intimiderend overkomen.
  - Geen 'one click install', of een wizard
  - Kale Github-repository
- https://framework7.io/docs/installation.html
- Documentatie: Deel over ES Module en ES-Next kun je

overslaan.



# Werkwijze

- 1. Download Framework 7 files van de Github Repository
  - 1. <a href="https://github.com/framework7io/framework7/releases">https://github.com/framework7io/framework7/releases</a>
- 2. Unzip de bestanden op je bureaublad



# Maak een project in VS Code

- Maak een nieuwe map, bijvoorbeeld fw7-demo
- Maak hierin alvast de mappen /css en /js
- Kopieer vanuit de gedownloade map /packages/core de bestanden
  - /js/framework7.min.js en
  - /css/framework7.min.css
  - ...naar de mappen van je VS Code-project
- Maak zelf de lege bestanden index.html, app.css en app.js
- De structuur ziet er dan zo uit:

```
# app.css css

FW7-DEMO

CSS

# app.css

# framework7.min.css

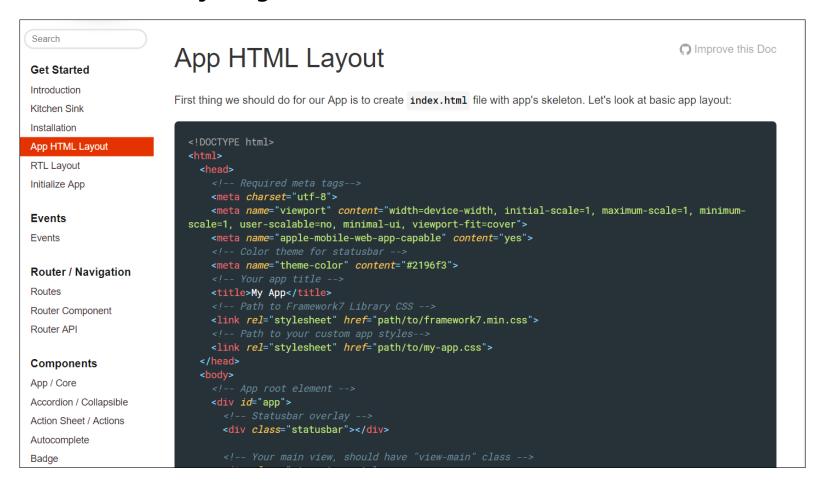
JS app.js

JS framework7.min.js

index.html
```

# Standaard App Lay-out kopiëren

- Ga naar <a href="https://framework7.io/docs/app-layout.html">https://framework7.io/docs/app-layout.html</a> en kopieer de standaard HTML App Lay-out
- Plak deze in je eigen index.html



# App lay-out aanpassen

Let er op dat je in de <head> het pad naar de CSS-bestanden aanpast!

Let er op dat je onderin het pad naar de JavaScript-bestanden aanpast!

```
<!-- Your app title -->
11
        <title>Demo MinDef app</title
12
        <!-- Path to Framework7 Libra CSS -->
13
        <link rel="stylesheet" href="css/framework7.min.css">
14
        <!-- Path to your custom app styles-->
15
        klink rel="stylesheet" href="css/app.css">
16
17
    </heads
                    </div>
            54
                    <!-- Path to Framework7 Library JS-->
            55
                    <script type="text/javascript" src="js/framework7.min.js"></script>
            56
                    <!-- Path to your app js-->
            57
                    <script type="text/javascript" src="js/app.js"></script>
            58
                </body>
            59
```

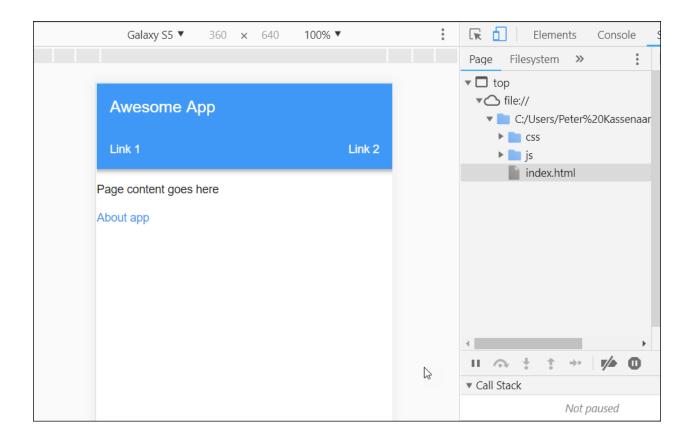
# JavaScript toevoegen

- Framework 7 werkt niet zonder initialisatie in JavaScript.
- Open je eigen app.js-bestand
- Ga naar <a href="https://framework7.io/docs/init-app.html">https://framework7.io/docs/init-app.html</a> en kopieer de voorbeeldcode naar je eigen bestand

```
var app = new Framework7({
  root: '#app',
  name: 'My App',
 id: 'com.myapp.test',
  panel: {
    swipe: 'left',
  // Add default routes
  routes: [
      path: '/about/',
     url: 'about.html',
var mainView = app.views.create('.view-main');
```

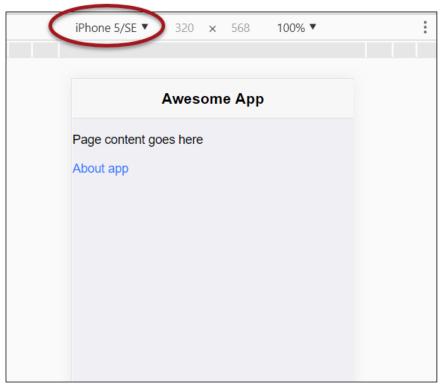
#### **Testen in browser**

- Open de pagina index.html in de browser, vanuit VS Code
  - (met de extensie is dat via Alt+B of Alt+Shift+B)
- Hij ziet er als volgt uit:

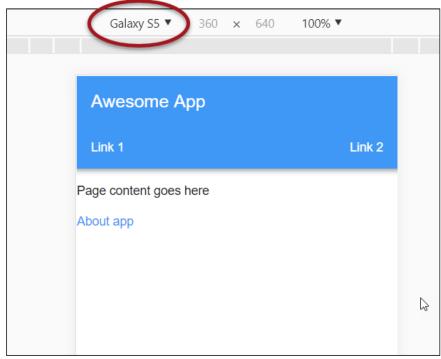


# **Test verschillende platforms**

#### **iOS** Device



#### **Android Device**



# **Oefening**

- Zelf doen
  - Maak een standaard App op basis van online voorbeeld
  - App heeft nog geen functionaliteit!

```
I will practice my modeling technique 2 hours every day I will practice my modeling technique 2 hours every day I will practice my modeling technique 2 hours every day I will practice my modeling technique 2 hours every day I will practice my modeling technique 2 hours every day I will practice my modeling technique 2 hours every day I will practice my modeling technique 2 hours every day I will practice my modeling technique 2 hours every day I will practice my modeling technique 2 hours every day I will practice my modeling technique 2 hours every day I will practice my modeling technique 2 hours every day I will practice my modeling technique 2 hours every day I will practice my modeling technique 2 hours every day
```

# 1. Pagina uitbreiden

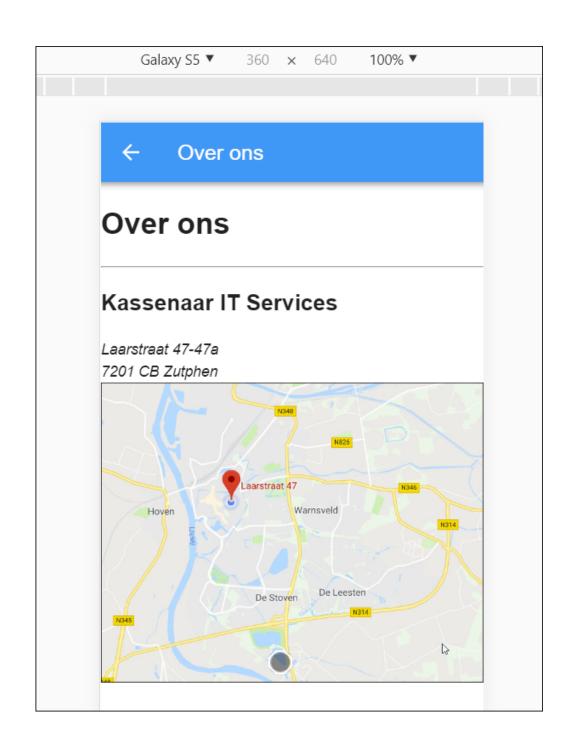
- Breid de pagina uit met enige tekst en afbeeldingen
- Rest van de componenten en opmaak komt later nog!



# 2. Nieuwe pagina toevoegen

- Maak een nieuwe pagina about.html
- Deze is al voorgedefinieerd in de routing-table (zie app.js)
- Hij heeft wel speciale kenmerken:
  - Gebruik een <div class="page">
  - Voeg de klasse .navbar en .navbar-inner toe in de page
  - Gebruik een <div class="page-content"> voor de inhoud
- Serveer de site over http!
  - Gebruik een webserver
  - Pagina's worden via AJAX geladen. Dit werkt niet op het file://protocol

```
<div class="page" data-name="about">
    <div class="navbar">
        <div class="navbar-inner sliding">
            <div class="left">
                <a href="#" class="link back">
                    <i class="icon icon-back"></i>
                    <span class="ios-only">Back</span>
                </a>
            </div>
            <div class="title">Over ons</div>
        </div>
    </div>
    <div class="page-content">
        <h1>0ver ons</h1>
    </div>
</div>
```



# 3. Extra pagina's toevoegen

- Breidt de array routes in app.js uit met de nieuwe route en nieuwe pagina('s).
- 2. Maak de nieuwe pagina's en koppel ze via de homepage.
- 3. Bijvoorbeeld:

```
// app.js - Add default routes
routes: [
    path: '/about/',
    url: 'about.html'
    },
    {
       path: '/contact/',
       url: 'contact.html'
    }
]
```



# **Oefening**

- Zelf doen
  - Voeg twee pagina's toe aan de app
  - Maak de pagina's, denk aan het uitbreiden van de route-tabel!

```
I will practice my modeling technique 2 hours every day I will practice my modeling technique 2 hours every day I will practice my modeling technique 2 hours every day I will practice my modeling technique 2 hours every day I will practice my modeling technique 2 hours every day I will practice my modeling technique 2 hours every day I will practice my modeling technique 2 hours every day I will practice my modeling technique 2 hours every day I will practice my modeling technique 2 hours every day I will practice my modeling technique 2 hours every day I will practice my modeling technique 2 hours every day I will practice my modeling technique 2 hours every day I will practice my modeling technique 2 hours every day
```

### **Configuratie parameters**

- Elke Framework 7-applicatie heeft een app-object.
- Dit moet je opgeven in het JavaScript-bestand
- Herken de syntaxis. var app = new Framework7();
  - Aanroep van een functie
- De functie heeft een object als parameter

```
var app = new Framework7({
    // App root element
    root: '#app',
    // App Name
    name: 'My App',
    // App id
    id: 'com.myapp.test',
    // Enable swipe panel
    panel: {
        swipe: 'left',
    },
    // Add default routes
    routes: [
        {
            path: '/about/',
            url: 'about.html',
        },
        // ... other parameters
});
```

```
// app.js
var app = new Framework7({
   root: '#app', // <-- Verwijst naar <div id="app">
   name: 'My App', // <-- Naam van de applicatie</pre>
   id: 'com.myapp.test', // <-- naam van de bundle, voor publicatie in App Stores</pre>
   panel: {
     swipe: 'left' // <-- // Swipe panel vanaf links (als je dit gebruikt)</pre>
   },
   routes: [
      // <-- Routes/pagina's binnen de app</pre>
     path: '/about/',
     url: 'about.html'
    },
     path: '/contact/',
     url: 'contact.html'
   // <-- overige parameters</pre>
});
// Elke app heeft een main view, verwijst naar <div class="view view-main">
var mainView = app.views.create('.view-main');
```

# **Overige parameters**

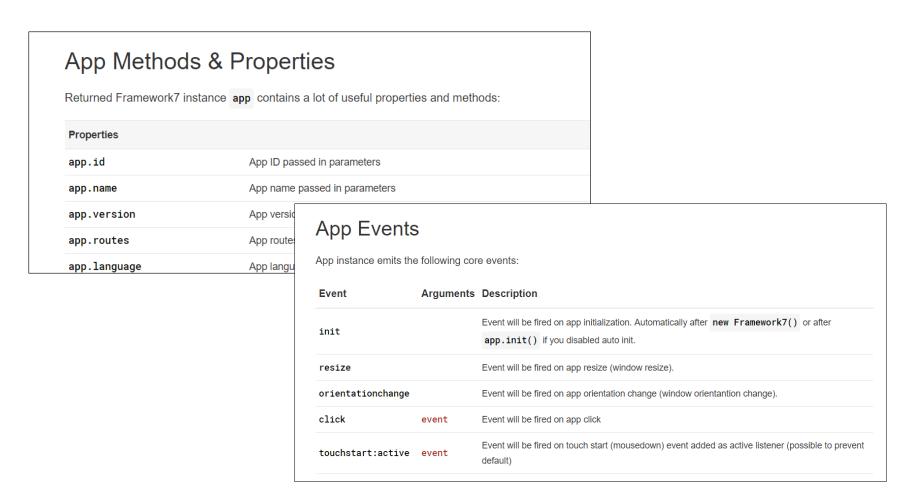
Hoef je niet uit je hoofd te kennen, maar moet weten waar je ze kunt vinden <a href="https://framework7.io/docs/app.html">https://framework7.io/docs/app.html</a>

Lets look at the list of available parameters:			
Parameter	Туре	Default	Description
root	string	body	App root element. If you main app layout is not a direct child of the <b>body&gt;</b> then it is required to specify root element here
id	string	io.framew ork7.test app	App bundle id.
name	string	Framework 7	App name. Can be used by other components, e.g. as the default title for Dialog component.
version	string	1.0.0	App version. Can be used by other components.
theme	strir∳g	auto	App theme. Can be ios, md or auto. In case of auto it will use iOS theme for iOS devices and MD theme for all other devices.
language	string		App language. Can be used by other components. By default equal to the current browser/webview language (i.e. navigator.language).
routes	array	[]	Array with default routes to all views.
data	function		App root data. Must be a function that returns an object with root data. For example:
			<pre>var app = new Framework7({   data: function () {     return {         username: 'vladimir' }</pre>

### **Een Framework 7 app**

#### app is nu een globaal object

Je kunt de methodes, properties en events raadplegen



# App inspecteren via console

```
▼ Filter
                                                    Default levels ▼ ✓ Group similar
e {params: {...}, eventsParents: Array(0), eventsListeners: {...}, id: "com.myapp.test", name: "My App
▶ accordion: {open: f, close: f, toggle: f}
▶ actions: {create: f, get: f, destroy: f, open: f, close: f}
▶ autocomplete: {create: f, get: f, destroy: f, open: f, close: f}
▶ cache: {xhr: Array(1), templates: Array(0), components: Array(0)}
▶ calendar: {create: f, get: f, destroy: f, close: f}
▶ component: {parse: f, create: f}
▶ customModal: {create: f}
▶ data: {}
▶ dataTable: {create: f, get: f, destroy: f}
▶ dialog: {create: f, get: f, destroy: f, open: f, close: f, ...}
▶ eventsListeners: {init: Array(15), orientationchange: Array(1), resize: Array(2), modalOpen: Arra
▶ eventsParents: []
▶ fab: {openedEl: null, morphOpen: f, morphClose: f, open: f, close: f, ...}
▶ form: {data: {...}, storeFormData: f, getFormData: f, removeFormData: f, convertToData: f, ...}
▶ gauge: {create: f, get: f, destroy: f, update: f}
▶ getSize: f ()
 height: 640
                                                                                             B
 id: "com.myapp.test"
▶ infiniteScroll: {handle: f, create: f, destroy: f}
 initialized: true
▶ input: {scrollIntoView: f, focus: f, blur: f, validate: f, validateInputs: f, ...}
 language: "nl-NL"
▶ lazy: {create: f, destroy: f, loadImage: f, load: f, isInViewport: f}
 left: 0
▶ listIndex: {create: f, get: f, destroy: f}
▶ loginScreen: {create: f, get: f, destroy: f, open: f, close: f}
▶ messagebar: {create: f, get: f, destroy: f, clear: f, getValue: f, ...}
▶ messages: {create: f, get: f, destroy: f, renderMessages: f, layout: f, ...}
▶ methods: {}
 name: "My App"
▶ navbar: {size: f, hide: f, show: f, getElByPage: f, initHideNavbarOnScroll: f}
▶ notification: {create: f, get: f, destroy: f, open: f, close: f}
```

# **Oefening**

- Pas de naam en bundle-id aan van je app.
   Inspecteer dit in de console
- Gebruik de event handler app.on('resize', function() {...}).
  - Toon de huidige hoogte en breedte in de console bij een wisseling van schermgrootte

