

Ionic





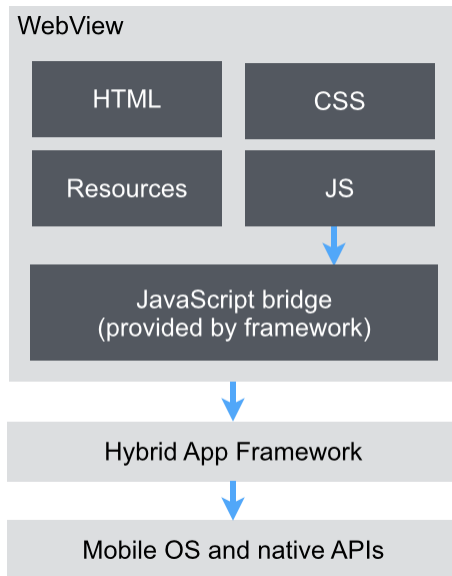
Programma

- Di cosa si tratta?
- Le tecnologie utilizzate
- Setup ambiente
- La struttura del progetto base
- I componenti base
- Alcuni servizi utili
- ...

Di cosa si tratta?

WebView

L'applicazione vive in un browser contenuto nell'app

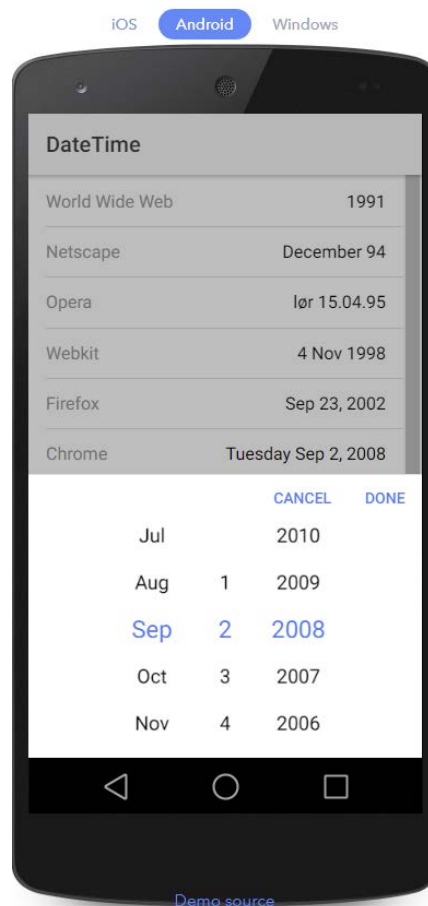
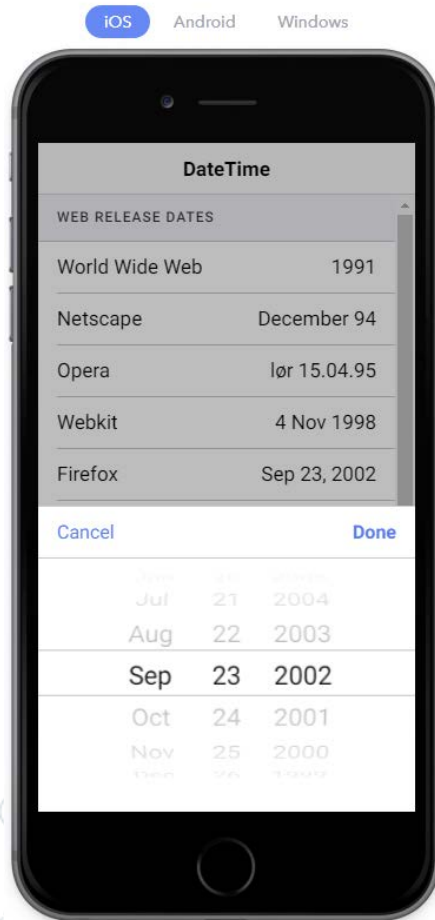


Ionic permette di sviluppare applicazioni mobile ibride sfruttando tecnologie web che tentano di riprodurre il comportamento nativo del sistema

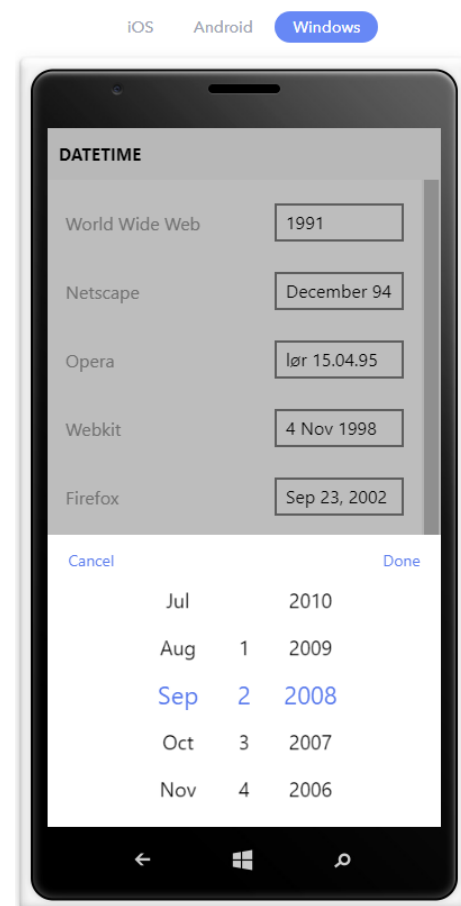
Di cosa si tratta?

Un solo tag html:

```
<ion-datetime displayFormat="MM/DD/YYYY" [(ngModel)]="myDate"></ion-datetime>
```

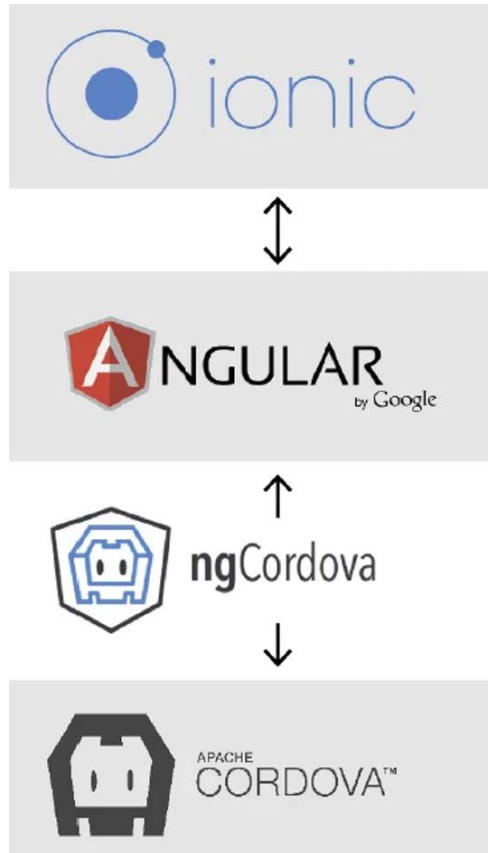


[Demo source](#)



[Demo source](#)

Le tecnologie utilizzate



UI Framework

Framework

Interfacciamento con l'hardware
(dalla versione 3 di ionic si chiama «ionic/native»)

WebView

Le tecnologie utilizzate



TypeScript: linguaggio di programmazione (superset di JavaScript)



HTML5: linguaggio di markup per pagine web



Sass/scss: estensione del css per definire fogli di stile

Setup

- Installare nodejs LTS
- Installare un IDE come VSCODE
- Installare Ionic DevApp sul proprio smartphone
- Eseguire: `npm install -g ionic cordova`
- Eseguire: `ionic start «nomeprogetto»`
- Scegliere «conference» come esempio di app
- Condividere la stessa rete tra notebook e smartphone
- Entrare nella cartella del progetto ed eseguire: «`ionic serve -c`»

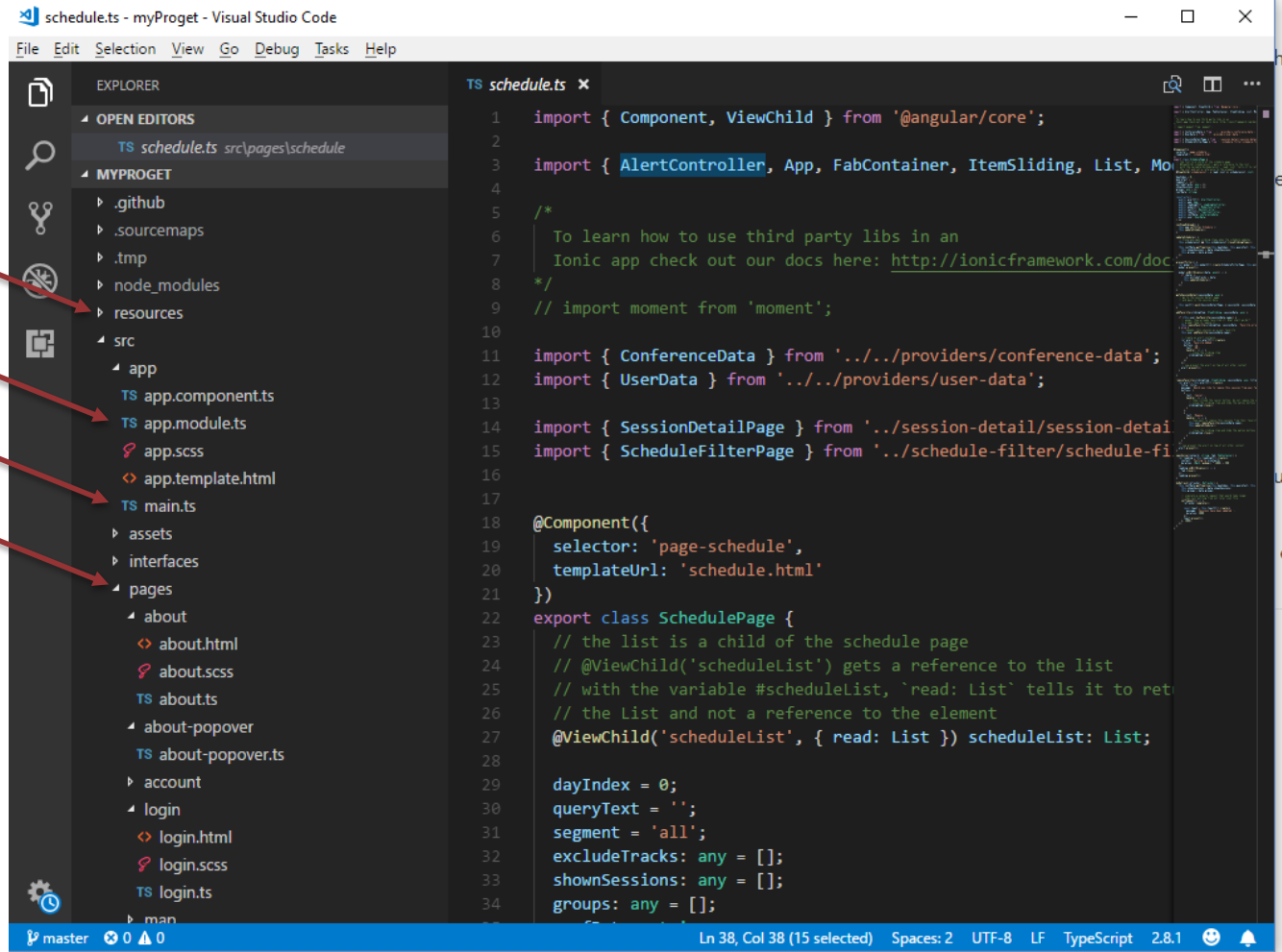
Struttura

Immagini e risorse

app

main

pages



```
schedule.ts - myProget - Visual Studio Code
File Edit Selection View Go Debug Tasks Help

EXPLORER
├─ OPEN EDITORS
│   └─ TS schedule.ts src\pages\schedule
├─ MYPROGET
│   ├── .github
│   ├── .sourcemaps
│   ├── .tmp
│   ├── node_modules
│   ├── resources
│   └─ src
│       ├── app
│       │   ├── TS app.component.ts
│       │   ├── TS app.module.ts
│       │   ├── app.scss
│       │   ├── app.template.html
│       │   ├── TS main.ts
│       │   ├── assets
│       │   ├── interfaces
│       │   └─ pages
│       │       ├── about
│       │       │   ├── about.html
│       │       │   ├── about.scss
│       │       │   └─ about.ts
│       │       ├── about-popover
│       │       │   ├── TS about-popover.ts
│       │       ├── account
│       │       ├── login
│       │       │   ├── login.html
│       │       │   ├── login.scss
│       │       │   └─ login.ts
│       │       └─ man
│       └─ main

TS schedule.ts x
1  import { Component, ViewChild } from '@angular/core';
2
3  import { AlertController, App, FabContainer, ItemSliding, List, Mo
4
5  /*
6   To learn how to use third party libs in an
7   Ionic app check out our docs here: http://ionicframework.com/doc
8  */
9  // import moment from 'moment';
10
11 import { ConferenceData } from '../providers/conference-data';
12 import { UserData } from '../providers/user-data';
13
14 import { SessionDetailPage } from '../session-detail/session-detail
15 import { ScheduleFilterPage } from '../schedule-filter/schedule-fi
16
17
18 @Component({
19   selector: 'page-schedule',
20   templateUrl: 'schedule.html'
21 })
22 export class SchedulePage {
23   // the list is a child of the schedule page
24   // @ViewChild('scheduleList') gets a reference to the list
25   // with the variable #scheduleList, 'read: List' tells it to ret
26   // the List and not a reference to the element
27   @ViewChild('scheduleList', { read: List }) scheduleList: List;
28
29   dayIndex = 0;
30   queryText = '';
31   segment = 'all';
32   excludeTracks: any = [];
33   shownSessions: any = [];
34   groups: any = [];
```


Pagina

Azione

view

controller

The image shows a development environment (VS Code) with the Explorer on the left, the Editor in the center, and a mobile app preview on the right. The Explorer shows a project structure with 'about.html' selected. The Editor shows the HTML code for 'about.html' with annotations for 'view' and 'controller'. The mobile app preview shows the rendered 'About' page.

```
1 <ion-header>
2   <ion-navbar>
3     <button ion-button menuToggle>
4       <ion-icon name="menu"></ion-icon>
5     </button>
6     <ion-title>About</ion-title>
7   <ion-buttons end>
8     <button ion-button icon-only (click)="presentPopover($event)">
9       <ion-icon name="more"></ion-icon>
10    </button>
11  </ion-buttons>
12 </ion-navbar>
13 </ion-header>
14
15 <ion-content>
16   <div class="about-header">
17     
19   <div padding class="about-info">
20     <h4>Ionic Conference</h4>
21
22   <ion-list no-lines>
23     <ion-item>
24       <ion-icon name="calendar" item-start>
25       <ion-label>Date</ion-label>
26       <ion-datetime displayFormat="MMM D
27     </ion-item>
28
29     <ion-item>
30       <ion-icon name="pin" item-start></
31       <ion-label>Location</ion-label>
32       <ion-select>
33         <ion-option value="madison" sele
34         <ion-option value="austin">Austi
35         <ion-option value="chicago">Chic
36         <ion-option value="seattle">Seatt
37       </ion-select>
38     </ion-item>
```

Mobile App Preview: About page showing Ionic Conference details, including Date (May 17, 2047) and Location (Madison, WI).

Componenti per UI

ActionSheetController

AlertController

App

Avatar

Badge

Button

Checkbox

Chip

Col

Config

Content

DateTime

Events

FabButton

FabContainer

FabList

Footer

Grid

Haptic

Header

HideWhen

Icon

<https://ionicframework.com/docs/components/>

Menus

Menu is a side-menu navigation that can be dragged out or toggled to show. The content of a menu will be hidden when the menu is closed.

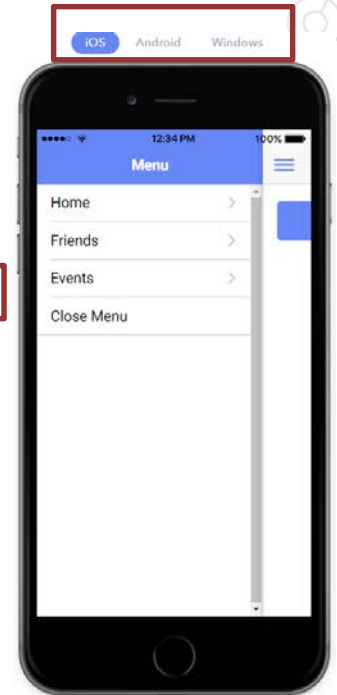
Menu adapts to the appropriate style based on the platform.

For more information, Check out the [API docs](#).

Basic Usage

```
<ion-menu [content]="content">
  <ion-header>
    <ion-toolbar>
      <ion-title>Menu</ion-title>
    </ion-toolbar>
  </ion-header>
  <ion-content>
    <ion-list>
      <button ion-item (click)="openPage(homePage)">
        Home
      </button>
      <button ion-item (click)="openPage(friendsPage)">
        Friends
      </button>
      <button ion-item (click)="openPage(eventsPage)">
        Events
      </button>
      <button ion-item (click)="closeMenu()">
        Close Menu
      </button>
    </ion-list>
  </ion-content>
</ion-menu>
```

Demo Source



Attiva Windows.
Passa a Impostazioni per attivare Windows.

Componente NavController

NavController is the base class for navigation controller components like `Nav` and `Tab`. You use navigation controllers to navigate to `pages` in your app. At a basic level, a navigation controller is an array of pages representing a particular history (of a `Tab` for example). This array can be manipulated to navigate throughout an app by pushing and popping pages or inserting and removing them at arbitrary locations in history.



Demo

