



Hands-on Nativescript

With angular

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What is NativeScript

Nativescript is an Open source framework for building truly native mobile apps with JavaScript, TypeScript or Angular.

What do you mean 'truly native' ?



You have full access to native apis in Javascript:

Android:

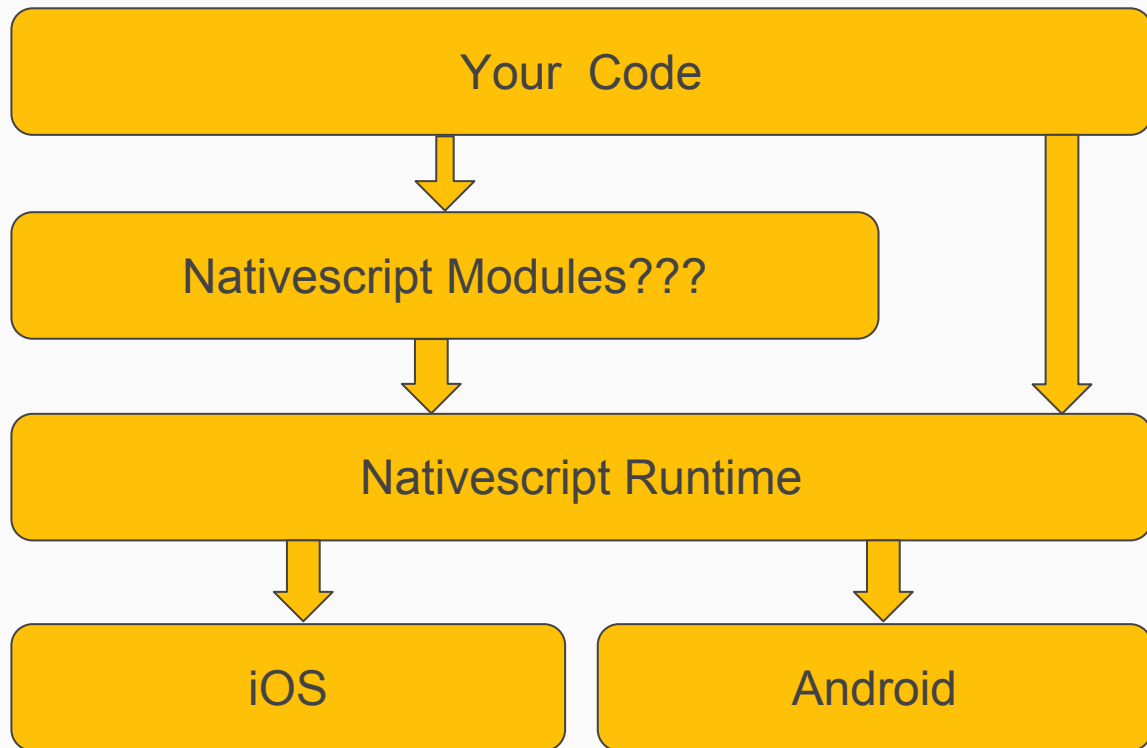
```
var time = new android.text.format.Time();  
time.set( 26, 3, 2016 );  
console.log( time.format( "%D" ) );
```

iOS:

```
var alert = new UIAlertView();  
alert.message = "Hello world!";  
alert.addWithTitle( "OK" );  
alert.show();
```

{N} runs JavaScript in a VM:

- JavaScriptCore for ios
- V8 Vm android



Wait, do i have to write code for both platforms any away ? {N} Modules?



Actually nativescript provides Nativescript Modules.

{N} Modules have a lot of abstractions for different kinds of things:

- Core Modules(application, settings, http, connectivity...)
- Device functionality modules(camera, location, file-system...)
- User interface modules(layouts, buttons, dialogs ...)
- [and more](#)

Why use angular?

Angular brings advanced and powerful web patterns to nativescript:

- Components
- Services
- Templates
- AoT
- ...

You can Share a lot of logic code with your web application

Some Examples:

DataBinding:

```
<ActionBar title="{{appTitle}}" class="action-bar">
</ActionBar>
<StackLayout class="input-field">
  <Label [text]="labelText" textWrap="true"></Label>
  <TextField hint="TextField" text="" [(ngModel)]="model"></TextField>
  <Button text="Button" (tap)="onTap($event)"></Button>
</StackLayout>
```

Routing

```
const routes: Routes = [
  { path: "", redirectTo: "/items", pathMatch: "full" },
  { path: "items", component: ItemsComponent },
  { path: "item", component: ItemDetailComponent },
];
```



Plugins:

There are already hundreds of plugins and you can make your own plugins, they are distributed as normal npm packages

- Plugin Repository: <http://plugins.nativescript.org/>
- How to: <https://docs.nativescript.org/plugins/plugins>

What about tools?

Nativescript-cli

- Simple console client to create, debug, test and deploy your application

Debugging:

- With VSCode:
<https://github.com/NativeScript/nativescript-vscode-extension/>
- With nativescript-cli and chrome(haven't tried)

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