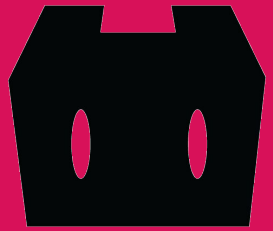
csipce



Cordova : From Idea to App

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< What is Cordova ?>

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- Platform for building mobile applications
- Uses web development languages: html, css, js
- Offers a bridge for connection between web app and mobile device
- Cross Platform Applications
    - Target Multiple platforms with one code base

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Apache Cordova is an open-source mobile development framework. It allows you to use standard web technologies such as HTML5, CSS3, and JavaScript for cross platform development, avoiding each mobile platform native development language. Applications execute within wrappers targeted to each platform, and rely on standards-compliant API bindings to access each device's sensors, data, and network status.

- Official Documentation

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< What we will be building ?>

Curious?

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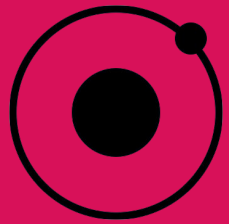
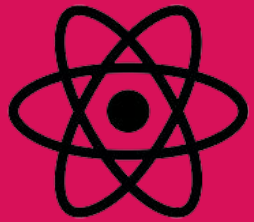
Other Frameworks :





Objective- C

Swift

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< How Cordova is Different ?>

- Web View
- Cross Platform
- No need to learn platform specific programming language
- Hybrid apps are slower than native apps
- Some plugins have compatibility issues
- add-ons available

- Native Apps
- Platform Specific
- Platform specific language + IDE
-
- Faster compared to hybrid apps
- No compatibility issues

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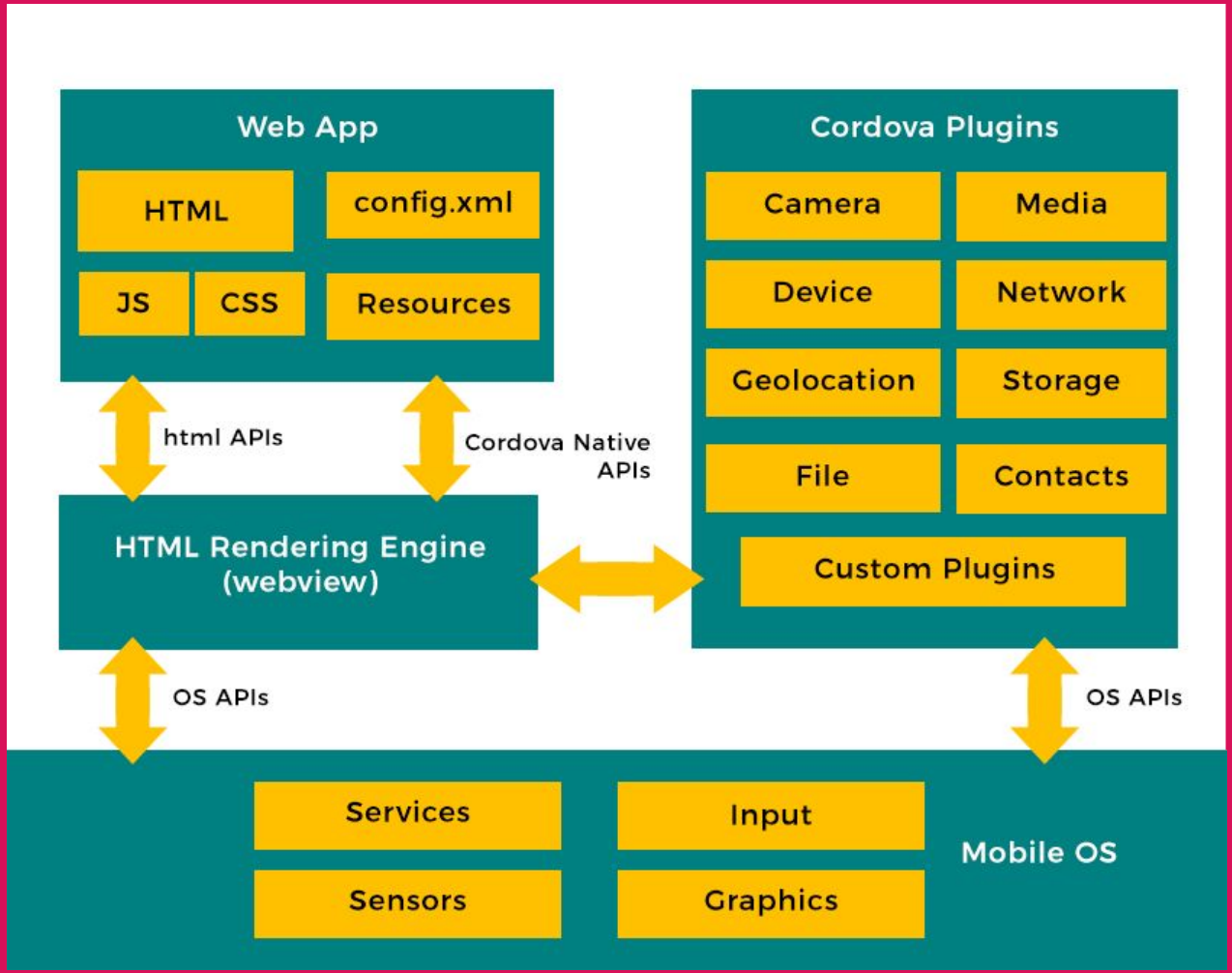
Web App
HTML
config.xml
JS
CSS
Resources
Cordova Plugins
Camera
Media
Device
Network
Geolocation
Storage
File
Contacts
Custom Plugins
html APIs
Cordova Native APIs
HTML Rendering Engine (webview)
OS APIs
OS APIs
Services
Input
Sensors
Graphics
Mobile OS

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Some Important Terms

1. **Platforms:**
   - Target OS

2. **Plugins:**
   - A plugin is a package of injected code that allows the Cordova webview within which the app renders to communicate with the native platform on which it runs.

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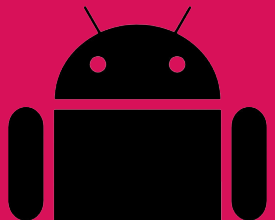
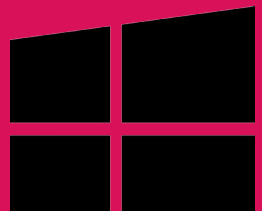
amazon fire

Platforms

TIZEN





ubuntu

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< Plugins />

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Camera

Battery Status

Contacts

Device

Device Orientation

Device Motions

Dialogs

File

File Transfer

Geolocation

Inappbrowser

Media

Network Info

Splash Screen

Statusbar

Vibration

Inapp-purchase

Whitelist

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< Folder Structure />

Config.xml | index.html | platforms | plugins

| res | www

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< Events in Cordova />

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- deviceReady
- pause
- resume
- backbutton
- menubutton
- searchbutton
- startcallbutton
- endcallbutton
- volumeupbutton
- volumedownbutton

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End

Prepared by

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