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# Titanium Appcelerator training

3 days (21 hours)

## Presentation

Titanium is a framework for the efficient development of cross-platform mobile applications using the JavaScript language. In this training course, you'll learn how to master this open-source technology, which is widely supported by the community through CommonJS.

Appcelerator Titanium lets you build applications faster. So you can save on your web design budget. Compatibility with JavaScript simplifies development, and the platform is built on flexibility and structure.

Our Titanium Appcelerator training covers the latest version of this Framework ([Titanium SDK 10](#)).

## Objectives

- Mastering the Titanium Framework
- Develop native applications using Titanium Appcelerator Platform
- Manage the deployment of your Apps on Android, iOS and Windows Mobile
- How to test an application

## Target audience

- Developers
- Architects
- System administrators
- DevOps

## Prerequisites

- Basic knowledge of a Unix system
- Knowledge of Python

## Titanium training program

### Titanium SDK

- Introduction
- Framework architecture
- Cross-platform API
- Project architecture
- Using the modules
- Hyperloop

### First rich project with Titanium

- Creating and organizing a project
- Versioning a project
- Ti.include() vs. CommonJS and require()
- User interface elements: windows, views and widgets
- Differences between Android and iOS
- Element positioning modes
- Event manager
  - emission and reception
  - local and global events
- Working with cartography
- Internationalizing an application
- Access to local data
  - Using Ti.Database
  - Reading the database with SQLite
    - Remote data access
- Detecting and using the network
  - Creating an HTTP connection
  - Strategy for caching remote data
  - Handling sockets

### Alloy: Framework MVC

- Introduction
- Models
- Views
- Controllers
- Widgets
- View management: XML templates and .tss styles
- Graphic theme management
- Passing variables between controllers
- Data management with backbone.js
- Data handling in a Titanium alloy application
- use of external libraries

- Widget creation and reusability
- "Tips and tricks about Alloy

## Access hardware APIs

- Geolocation
- Accelerometer
- File system
- Camera
- Media
- Address book

## Appcelerator Arrow

- Introduction
- Arrow Builder
- Arrow Cloud

## Appcelerator Studio

- Installation
- OS configuration
- App Designer
- App Preview
- Atom

## Tools

- gitt.io
- Ti-Slack
- Ticons
- TN
- Loopmodules.com

## Debugging & Test

- Debug Titanium JavaScript code using Studio tools
- Debugging Mobile Web apps, and via Android & iOS APIs
- Monitor performance
- Deploy Android & iOS apps on a terminal for testing purposes
- Determine your options for deployment to remote testers

## Publication

- Publish on Google Play Store & iTunes App Store
- Know the differences between AdHoc, Enterprise and private publishing on iOS

## Companies concerned

This training course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced computer technology, or to acquire specific business knowledge or modern methods.

## Teaching methods

Practical course: 60% Practical, 40% Theory. Training material distributed in digital format to all participants.

## Organization

The course alternates theoretical input from the trainer, supported by examples, with brainstorming sessions and group work.

## Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

## Sanction

A certificate will be issued to each trainee who completes the course.