

Introduction

Android Architecture

- System architecture of Android
- Android Components
- Android configuration files

Android Development Tools

- Defining devices and Android emulators
- Eclipse tooling for Android projects

Android user interfaces development

- Views and Layouts
- View interaction
- Component lifecycle

Component communication via Intents

- Intents and intent filter
- Android component integration via intents

Multi-screen development

- Screen sizes and densities
- Resource selectors

Multi-pane layout with fragments

- Multi-pane layouts with fragments
- Designing layouts for tablets and phones

ActionBar

- User interaction concepts
- Defining and using actions

Displaying lists in Android

- Using ListViews in Android
- Fragments and ListViews

Styling and Themes

- Using existing styles and themes
- Creating own themes

File based Persistence

- Preferences
- File and Access restrictions
- Permissions

Security

- Android security concept
- Using and defining permissions

Network Communication

- Accessing the Internet via http
- Processing JSON
- Processing XML

Webservice integration into Android

- Using SOAP based webservices
- Using REST based webservices

Asynchronous processing in Android

- Multitasking in Android
- Using Handler for message communication

- Using AsyncTask

SQLite and ContentProvider

- Using the SQLite database
- Outlook: Using and defining ContentProvider
- Outlook: Loader

Services

- Using Android system services
- Outlook: Defining your own services
- Outlook: Definition cross component communication

Event processing via broadcast receiver

- Androids event system
- Registering broadcast receiver for system events
- Registering and triggering custom events

Notifications

- Using the notification manager
- Building rich notifications

Canvas API for custom widgets

- Defining custom widgets
- Canvas API
- Outlook: View state persistence

Location services and Google Maps

- Location based Services and Geocoding
- Using Google Maps
- Enhancing Google Maps with custom drawings (Overlays)

Targeting Android 2.x with compatibility libraries



- Using Fragments on Android 2.x devices
- Using the ActionBar in Android 2.x

Deployment

- Deployment Options
- Markets (Google Play / Amazon)



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