



# 3G Android最新应用开发技术及典型 案例分享

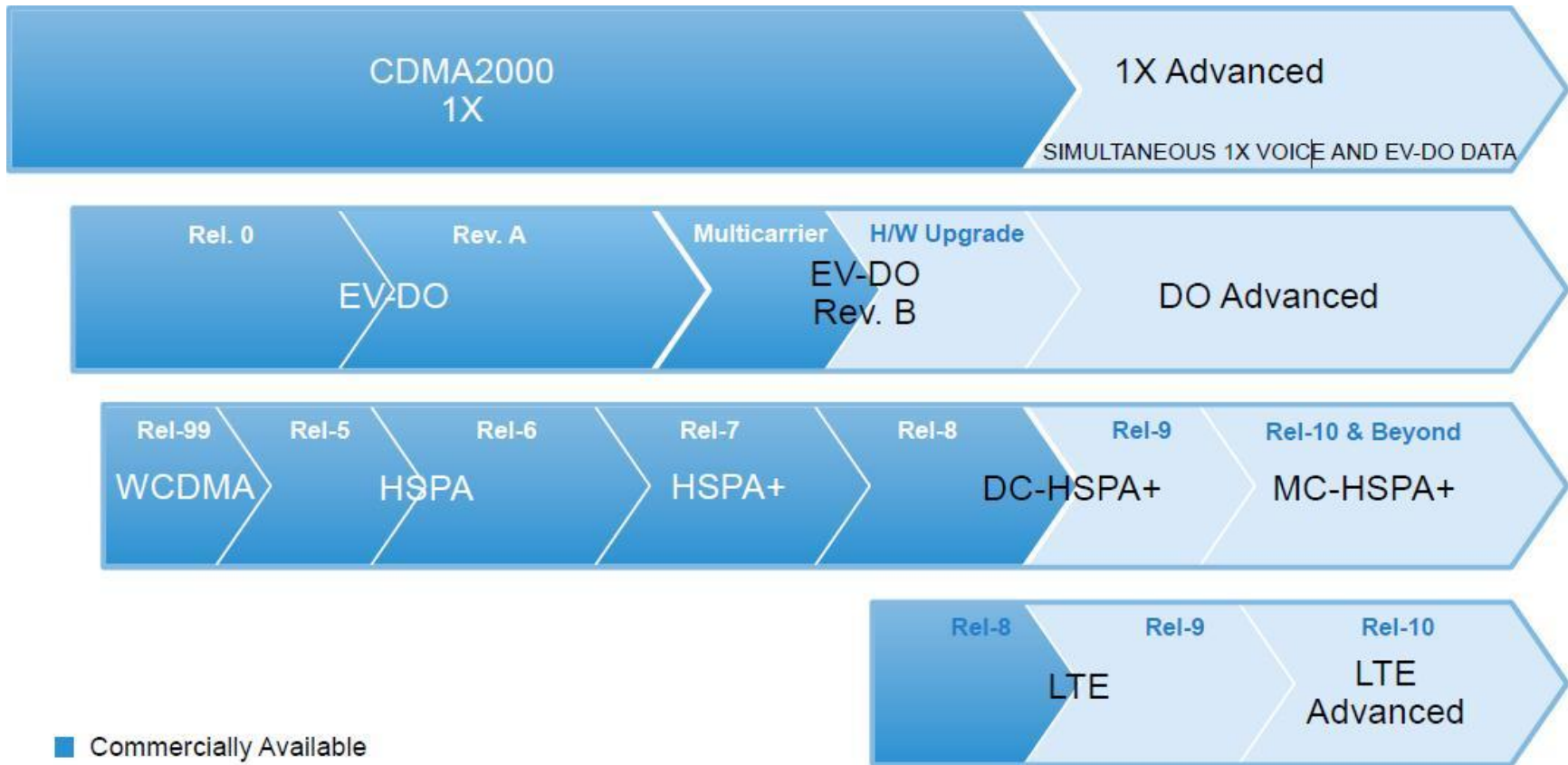
华清远见：张善民

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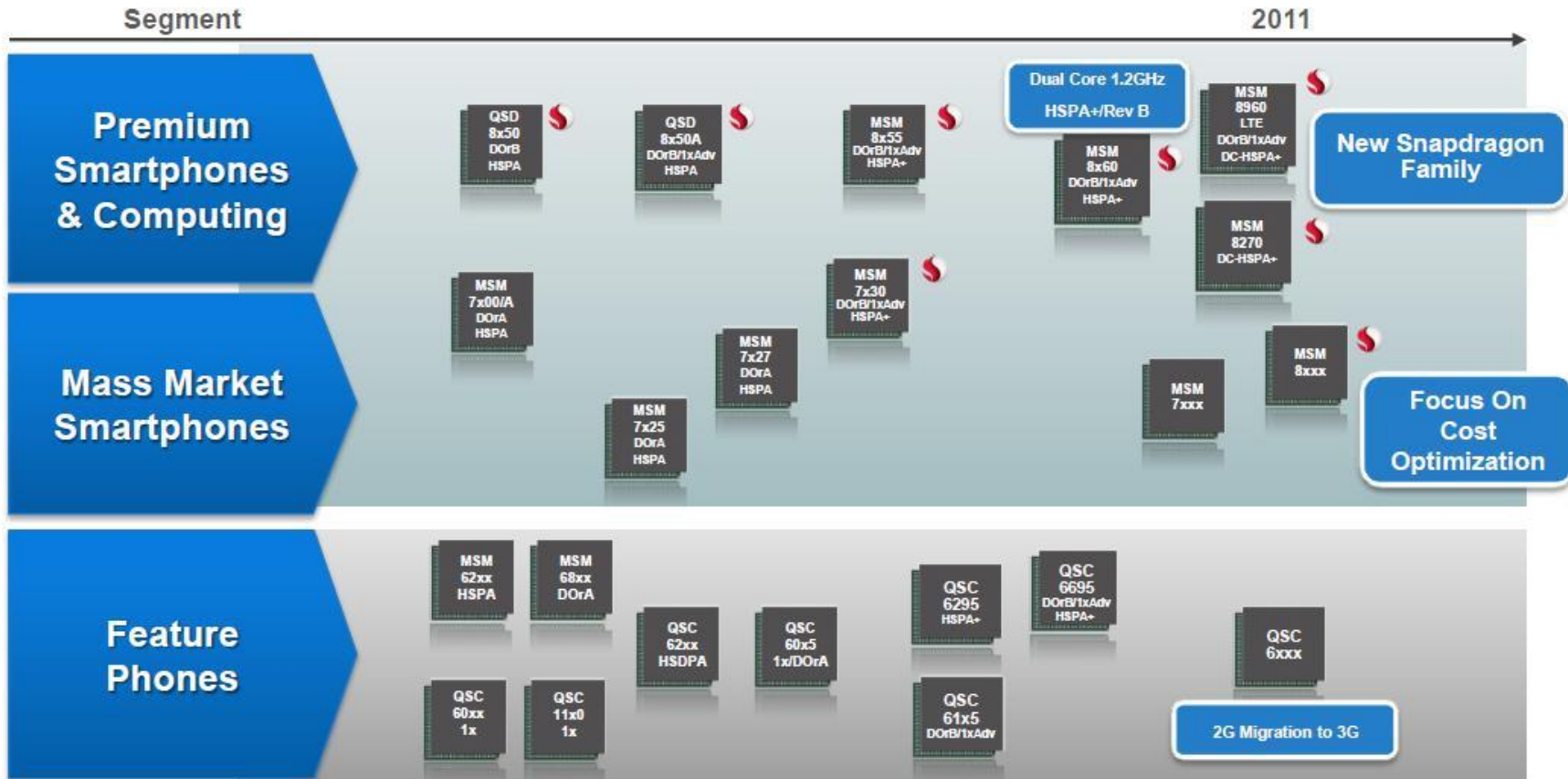


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# 移动通信技术的演进



# ARM应用处理器的演进



# 移动设备的演进

2006  
FIRST  
INTEGRATED  
AP + MODEM



2008  
FIRST  
1GHZ CPU



2009  
FIRST  
HSPA+



2010  
FIRST  
ASYNCHRONOUS  
DUAL CORE, DC-HSPA,  
MULTI-MODE LTE



2011/13  
ANOTHER FIRST

**NEXT  
GENERATION  
SNAPDRAGON**

Raising the bar  
again...

Power  
Performance  
28nm

## 移动应用开发的趋势

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- } 应用程序商店模式
- } 面向对象编程
- } 界面设计和代码逻辑分离
- } 更注重用户体验
  - } Microsoft/Apple如何避免失败的用户体验

# Microsoft 蓦然回首



## } Windows Mobile 7



# Windows Mobile 7





# Window Phone 7



The collage features several application tiles from the Windows Phone 7 interface:

- people**: A social hub tile showing recent contacts.
- pictures**: A gallery tile showing photo albums and favorites.
- games**: A tile for playing games, including a 'spotlight' section.
- music+video**: A tile for media consumption, featuring a 'zune' section with options for music, video, podcast, radio, and marketplace.
- applications**: A central tile for various apps, including 'SPOURB LOCAL RESTAURANTS & PROGRAMS'.
- Office**: The Microsoft Office suite tile, which includes:
  - OneNote**: Options for 'New page' and 'All'. It lists apps like 'Microsoft Office on Windows Phone 7', 'Using OneNote', 'School Supplies', 'Shopping list', 'Bills to pay this month', and 'Colors'.
  - Documents**: Options for 'New document' and 'All'. It lists documents such as 'Budget details', 'Half Yearly Sales Re', 'Marketing plan', 'Job waiver', and 'Interview questions'.
  - SharePoint**: Options for 'All' and 'Open Li'. It lists documents like 'Introduction to Sale Present', 'Handbook', 'Food expenses', 'Quarterly results', 'Marketing', 'Tag Tea', 'Specific', 'Contract', and 'Returni'.

# Apple温故知新



**Jobs:2007号称领先业界5年**



成功的表象：品牌的力量 工业设计 精准定位用户 AppStore 完全封闭

深层的原因：

1985 NeXT

2005 PowerPC

从中积累的经验：

图形及用户体验(NSObject = NeXTSTEP + Sun)

跨平台(PowerPC->x86->ARM)

硬件设计(Apple A4)

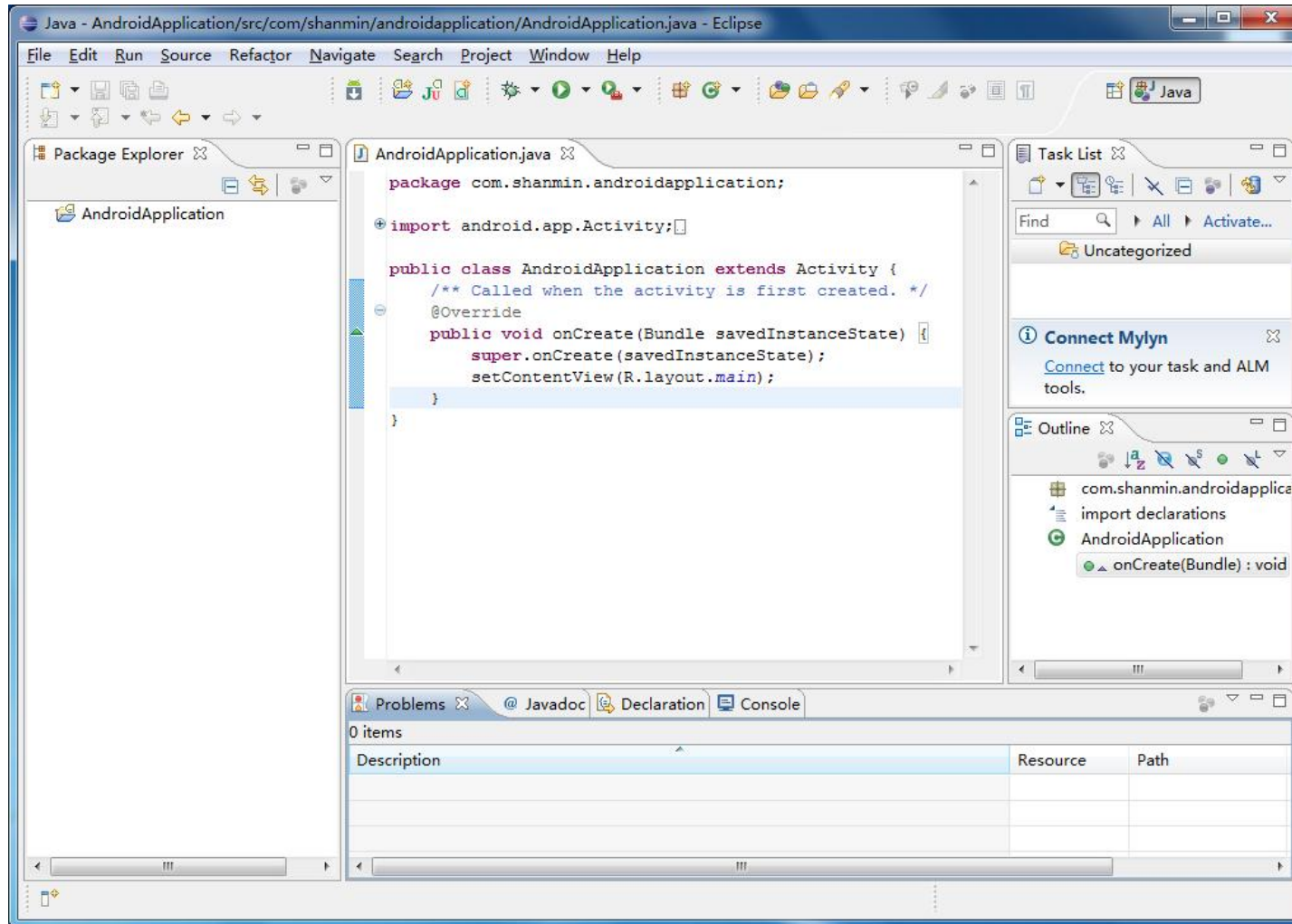
# Google Android 开发入门

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- } Android开发工具
- } Android体系结构
- } Android应用程序结构
- } Layout/Widget
- } Android开发事例

# Android开发工具



# 安装开发工具

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- } Java SE Development Kit (JDK)
  - } jdk-6u20-windows-i586.exe
  - } jdk-6u20-linux-i586.bin
- } Android SDK
  - } android-sdk\_r06-windows.zip
  - } android-sdk\_r06-linux\_86.tgz
- } Eclipse
  - } eclipse-java-galileo-SR2-win32.zip
  - } eclipse-java-galileo-SR2-linux-gtk.tar.gz
- } ADT Plugin for Eclipse
  - } ADT-0.9.7.zip

# 配置AVD

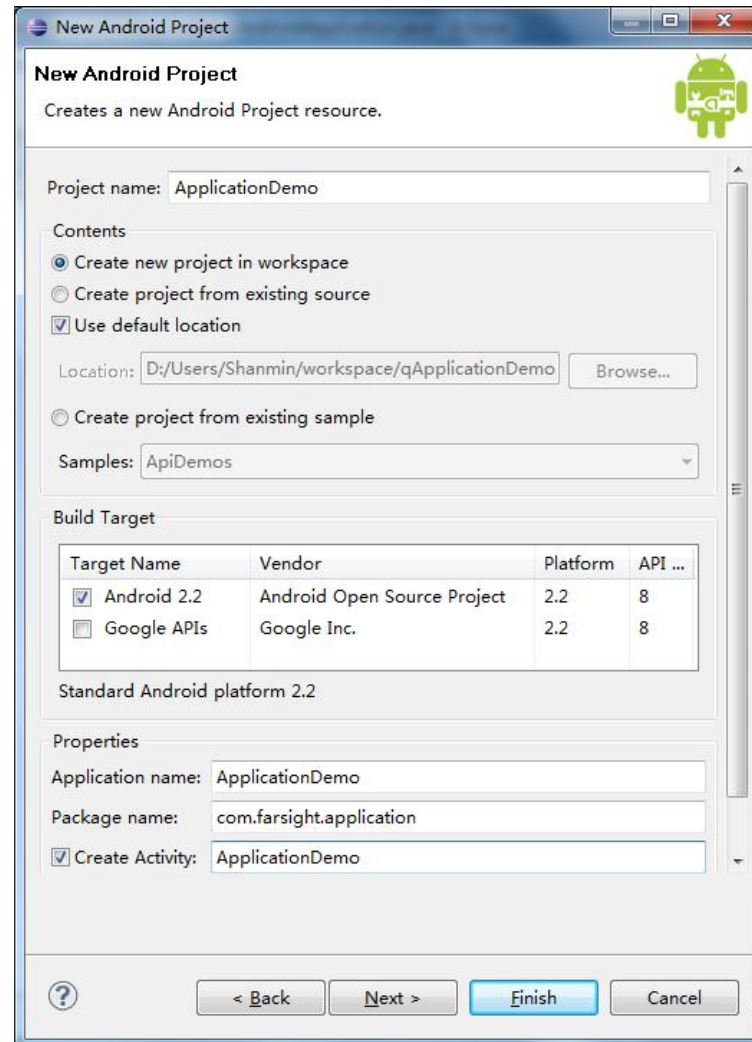
} Eclipse | Window | Android SDK and AVD Manager | Virtual Device | New ...



# 创建Android工程



- } Eclipse | File | New | Android Project
- } Project Name
- } Build Target
- } Application name
- } Package name
- } Activity name
- } SDK Version



# 工程文件组成

- } src
- } gen | ... | R.java
- } assets
- } res
  - } drawable
  - } layout
  - } values
- } AndroidManifest.xml
- } default.properties

- ▷ AndroidApplication
- ▾ ApplicationDemo
  - ▾ src
    - ▷ com.shanmin.applicationdemo
  - ▾ gen [Generated Java Files]
    - ▷ com.shanmin.applicationdemo
- ▷ Android 2.2
  - ▷ assets
  - ▾ res
    - ▾ drawable-hdpi
      - icon.png
    - ▾ drawable-ldpi
      - icon.png
    - ▾ drawable-mdpi
      - icon.png
    - ▾ layout
      - main.xml
    - ▾ values
      - strings.xml
  - AndroidManifest.xml
  - default.properties
- ▷ MapDemo
- ▷ WebDemo



# View 类和 ViewGroup 类

## } View 类

- } 构成用户界面的组件的抽象
- } 占用屏幕的矩形区域
- } 负责绘图和事件处理
- } 用于用户交互的Widget的基类

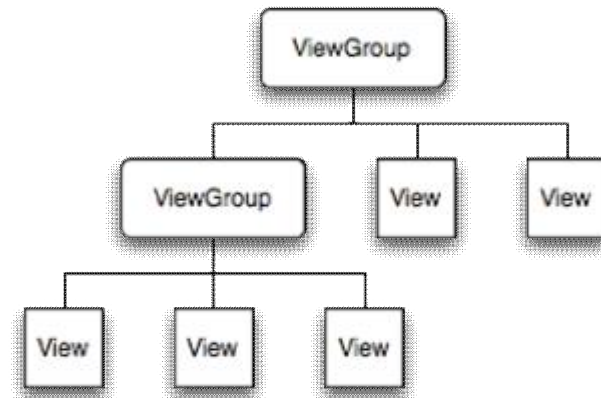
## } ViewGroup 类

- } 用于布局的layout的基类
- } 不可见的容器
- } 容纳View和ViewGroup并定义其属性

[java.lang.Object](#)

↳ [android.view.View](#)

↳ android.view.ViewGroup



# 项目实例

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- } MediaPlayerSample
  - } TabActivity
  - } MediaPlayer
- } MapViewSample
  - } Android Maps
  - } MapActivity
  - } MapView

# Q&A



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