

# Android Development Standard

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# Preface

## ❖ Signature

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# Preface

## ❖ Signature Revision History

**\*A – Added, M – Modified, D - Deleted**

Version	Date	A*, M, D	Change Description	Author	Approved By
1.0	04/05/2015	A	<ul style="list-style-type: none"><li>Create document</li></ul>	Le Duc Tuan	



# Preface

## ❖ Convention Used in this document



# I. Goals



# Goals

- ❖ Working in the same bases and conventions
- ❖ Ease of project backup
- ❖ Ease of maintenance



# II. Language - English



# Language - English

## Conventions:

- All class, method and variable names are in English and follow below rules
- Give simplest and shortest names as possible
- Avoid using plural (use collection type instead)
- Words are lowercase when alone, otherwise use CamelCase
- Give the generic term as possible, avoid gender and false specialization
- Avoid confusing acronyms, use full text to describe the meaning

## Examples (Do # Don't):

- `performSearch()` # ~~`recherche()`~~
- `createUserList()` # ~~`createListOfUsers()`~~
- `mCatList` # ~~`mCats`~~
- `person`, `personAge`, `personWithName`
- `PersonClass` # ~~`ManClass`, `WomanClass`~~
- `HTTP`, `URL` # ~~`AAA (Batter Type/Codon Lysine, etc.)`~~





# III. Project Name



# Project Name

## Conventions:

- The project must follow client requirement first, otherwise use this convention
- Each project must be identified by a prefix and postfix (if required) as the rules follow

*[Company Name]Project Name[Version]*

- No duplications with another project

## Examples (Do # Don't):

- **DigitasYouPlusV4** # ~~YouPlus~~
- **KeyneosoftMyTao** # ~~MyTao~~
- **KeyneosoftAG2R** # ~~AG2R~~



# IV. Naming Convention



# Naming Conventions

- This section will describe the naming convention of following
  - Application package name
  - Classes & members (variables)
  - Accessor members
  - Methods & parameters
  - Implementation
  - Listeners
  - Constants
  - Layouts
  - Values
  - Identifiers



# Application Package Name

## Conventions:

- Use the package name assigned by client or use this convention
- All lowercase and as follow  
*[com.][company name.][project name]*
- Package separated by application functions
- Any other packages that is commonly used throughout the project must be put into [common] package

## Examples:

### Do

- **com.ag2r** (company name is omitted)
  - **com.ag2r.common.gcm**
  - **com.ag2r.about**
- **com.digitas.nissaneu.mobile.yip.android**
- **com.sutrixmedia.application**

### Don't

- ~~com.facebook.katana~~ (duplicated with facebook application)
- ~~sutrixmedia.application~~ (missing com.)



# Classes & Members

## Conventions: Class name

- Start with company name/project abbreviation and use CamelCase
- End with class type or functional usage  
*[company/project name][class type]*

## Examples:

### Do

- AG2RSessionFragment
- AG2RLoginResult
- TAOWebviewFragment

### Don't

- HomeFragment
- MainActivity
- MainView
- UpdateUserInfo



# Classes & Members (cont.)

## Conventions: Class member name (global)

- Start with “m” and use CamelCase
- Avoid using numbers, add functional usage or purpose of the variable instead
- For boolean type, the prefix followed by “is” and end with an adjective

## Examples:

### Do

- `mProduct`
- `mProductList`
- `mIsProductChecked`

### Don't

- ~~boolean: checked~~ (not specific and missing “m” and “is” for the prefix)
- ~~mProduct3~~ (no numbers, purpose instead)
- ~~mainProduct~~ (missing “m” for the prefix)



# Accessor Members

## Conventions:

- Remove “m” for both getters and setters
- Setter:
  - Followed by variable name
  - Use CamelCase
- Getter:
  - Followed by variable name
  - Use CamelCase
  - For boolean type, “is” followed by the variable name

## Examples:

### Do

- `setProduct(), getProduct()`
- `setProductList(), getProductList()`
- `setProductChecked(), isProductChecked()`

### Don't

- ~~`setproduct(), getproduct(), SetProduct()`~~
- ~~`productChecked()`~~
- ~~`isProduct(), isMask()`~~





# Methods & Parameters

## Conventions: Methods (instance & class)

- Start with a lowercase verb/“is”
- Use CamelCase
- Avoid abbreviation
- Give simplest and shortest method name as possible

## Examples:

### Do

- `performSearch()`, `buildWhereClause()`
- `searchProductById()`, `findViewById()`

### Don't

- ~~`checkProduct()`~~
- ~~`setproduct()`~~, ~~`getproduct()`~~, ~~`SetProduct()`~~
- ~~`isProduct()`~~, ~~`isMask()`~~



# Methods & Parameters (cont.)

## Conventions: Parameters

- Use CamelCase
- Avoid abbreviation
- Give simplest and shortest name as possible

## Examples:

### Do

- `product, productList`
- `name, id, isVisible`

### Don't

- ~~`Product, mProduct`~~
- ~~`Isvisible`~~



# Implementation

## Conventions: Local variables

- Start with “t”
- Use CamelCase
- Avoid abbreviation
- Give simplest and shortest name as possible

## Examples:

### Do

- tProduct, tProductList
- tName, tId, tIsVisible

### Don't

- ~~product, Product, mProduct~~
- ~~TIsvisible~~



# Implementation (cont.)

## Conventions: Loop variables

- Use single letter
- The common is to use “i - j - k - l” with the increment order
- Should not be more than 4 nested loops, otherwise the implementation logic is too complicated and might be wrong

## Examples:

### Do

- `for (int i ...) , for (int j ...)`

### Don't

- ~~`for (int ii ...)`~~
- ~~`for (int j ...), for (int i ...)`~~
- ~~`for (int ij ...), for (int ik ...)`~~



# Listeners

## Conventions:

- Same rule as class naming convention
- Post fix with “Listener” (optional)
- Methods in the listener follow same rule as method naming convention
- The name should explain what the listener does (action/behavior)
- Make it a separated interface

## Examples:

### Do

- AG2RLocationUpdatedListener
- YouPlusNotificationReceivedListener
- WebserviceResultHandler

### Don't

- MyListener



# Constants

## Conventions:

- Start with company name/project abbreviation
- All uppercases
- Each term separated by an “\_”
- Declared as “static final” variables

## Examples:

### Do

- AG2R\_MIN\_WIDTH
- YOUPLUS\_MAX\_COUNT
- AG2R\_PREF\_PROGRAM\_ID

### Don't

- ~~ag2r\_min\_width~~
- ~~YOUPLUSMAXCOUNT~~
- ~~Ag2rPrefProgramId~~



# Layouts

## Conventions:

- Start with company name/project abbreviation
- Layout bind with Activity use prefix “activity”, bind with Fragment use “fragment”, otherwise use “layout”
- Followed by name of binding class or layout purpose
- All lowercase
- Each term separated by an “\_”

## Examples:

### Do

- `ag2r_activity_home.xml`
- `ag2r_fragment_session_result.xml`
- `ag2r_layout_home_header.xml`

### Don't

- ~~`home_activity.xml`~~
- ~~`fragment_about.xml`~~
- ~~`layoutListviewFooter.xml`~~



# Values

## Conventions:

- Start with company name/project abbreviation
- Name itself should explain the purpose
- All lowercase
- Each term separated by an “\_”
- End with “values”

## Examples:

### Do

- `ag2r_string_values.xml`
- `ag2r_array_values.xml`
- `ag2r_dimension_values.xml`

### Don't

- ~~`strings.xml`~~
- ~~`arrays.xml`~~
- ~~`dimensions.xml`~~





# Identifiers

## Conventions:

- Start with layout file name (exclude the company name/project abbreviation)
- Followed by 2 letters describing the view (tv - TextView, bt - Button, et - EditText, rl - RelativeLayout)
- End with purpose (action/behavior)
- All lowercase
- Each term separated by an “\_”
- Absolutely no textView1, textView2, etc.

*[activity/fragment/layout]\_screen\_view\_function]*

## Examples:

### Do

- activity\_home\_bt\_login
- fragment\_login\_bt\_signin
- layout\_main\_header\_tv\_username

### Don't

- ~~buttonLogin~~
- ~~username\_txt~~
- ~~view\_title~~
- ~~textView1~~





Thank you