

Fin

Fine.

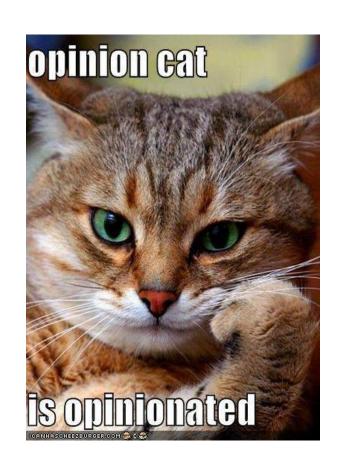
I'll reveal my secrets.

Wait, wait... don't tell me

This is a snapshot of my current setup.

You'll probably spot lots of things I could improve...

...so please consider giving your own tips talk!



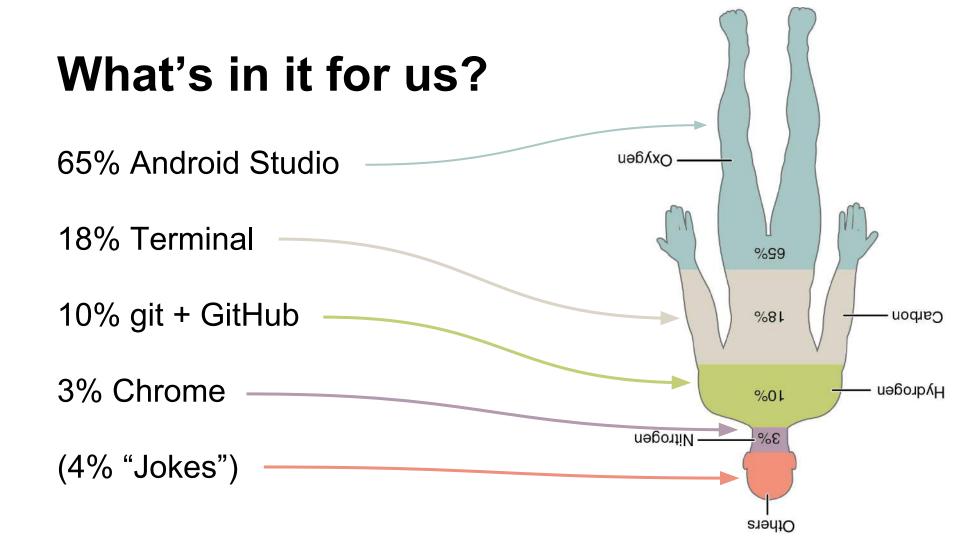
What's in it for us?

65% Android Studio

18% Terminal

10% git + GitHub

3% Chrome



Android Studio topics



Shortcuts (& Productivity Guide)

Terminal

Plugins

Split Window

Shortcuts



Always use the **Mac OS X 10.5+** shortcuts:

Preferences → Keymap

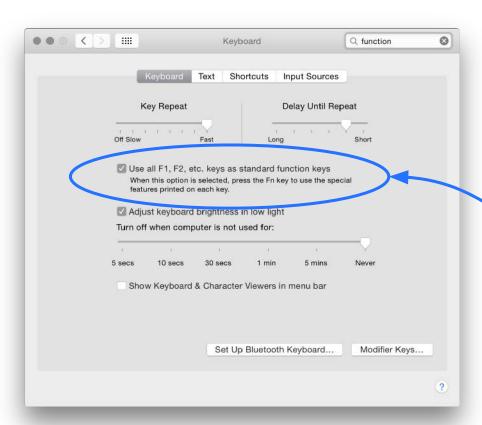
Sticking with defaults is preferred (pairing).

See *all* shortcuts (Android Studio v1.0.2):

Help → Default Keymap Reference

Shortcuts





Recommended for sanity.

Shortcuts



My personal shortcut reference, quasi-ranked:

https://gist.github.com/stkent/349cdda974fdb9697be5



Sometimes, one child is just going to be way better than the others.

Shortcuts: navigation



Command-B

Go to declaration of the symbol at cursor location.

Great combined with: **Command-**[and **Command-**] Skip back/forward through cursor position history.

Inline alternatives: Command-Y (pop-up symbol definition), F1 (pop-up javadoc).

Shortcuts: navigation



Command-O

Search for and go to any class by name.

Command-Shift-O

Search for and go to any file by name.

Command-Option-O

Search for and go to any **symbol** by name.

Shortcuts: navigation



Command-Shift-F

Search for text across all files (e.g. search for UI string).

Command-E

List recently-opened files.

Command-F12

Show class structure.

Shortcuts: refactor



Shift-F6

Rename all copies of the symbol at cursor location.

Control-T

View full refactor menu (rename/move/extract etc.)

Shortcuts: general



Command-N

Generate code (e.g. accessors/constructors) in class.

Command-P

Show allowed method parameters (must be inside parentheses).

Control-Space

List available methods/completions in pop-up.

Shortcuts: general



Option-Command-F7

List all usages of symbol at cursor.

Option-Enter

List available quick-fixes for code warning/error at cursor.

Great combined with: **F2**

Moves cursor to next warning/error in file.

Shortcuts: am I doing it right?



Help → Productivity Guide

	Produc	tivity Guide		
Android Studio uptime: 43 minutes, idle time: 39 minutes Code completion has saved you from typing at least 370.9K characters since $2/7/14$ (\sim 1.4K per working day) Quick fixes have saved you from 1811 possible bugs since $2/7/14$ (\sim 8 per working day)				
Feature	Group	Used ▼	Last used	
Variable name completion	Code Completion	46,788 times	one day ago	
Basic code completion	Code Completion	38,431 times	2 minutes ago	
Syntax aware selection	Code Editing	30,933 times	47 minutes ago	
Finish lookup even when non-f	Code Completion	25,744 times	2 days ago	
Go to declaration	Navigation	8,534 times	7 minutes ago	
Replace By when using lookup	Code Completion	5,322 times	2 days ago	
Go to class	Navigation	2,006 times	49 minutes ago	
Go to file	Navigation	1,964 times	48 minutes ago	
Show usages	Navigation	1,502 times	one hour ago	
Highlight method exit points	Code Assistants	1,278 times	one day ago	
Camel prefixes in code compl	Code Completion	1,122 times	2 days ago	
	C 1	1 001 .:	2 1	

Terminal



Option-F12 shows/hides the Android Studio terminal

```
@Override
                                                      public int compareTo(@NonNull Landmark landmark) {
                                           140 of (
                                                           int lngDiff = Math.round(Math.signum((float) (longitude - landmark.longitude))
                                                           if (lngDiff != 0) {
           beta {
                applicationIdSuffix ".beta"
                resValue "string", "app name", "Landmarked Beta"
  Landmarked [master] $ git stash save
  Saved working directory and index state WIP on master: 3be090b Add lint step to release checklist.
  HEAD is now at 3be090b Add lint step to release checklist.
  Landmarked [master] $
TODO 46 6: Android Terminal Wersion Control
                                           9: Changes
                                                                                                                   Gradle Console
                                                                                                                                 Memory Monitor
                                                                                                                  136:6 LF = UTF-8 = Git: master = % (%)
```

Plugins



Favorites

- Parcelable generator: auto-implement Parcelable
- Java decompiler: view decompiled source code

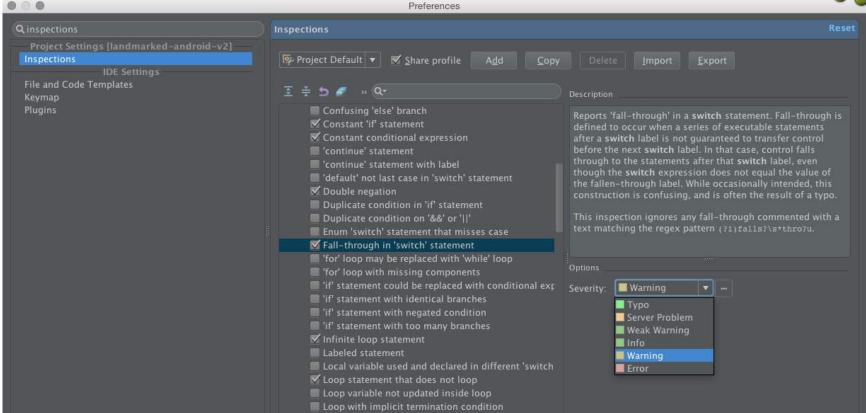
Others of interest: Bash Support, Hungry Backspace... do some searching!

Split Window

```
LandmarkedDataManager.java - [Landmarked] - landmarked-android-v2 - [~/dev/detroit_labs/apps/landmarked_related/landmarked-android-v2]
                        Q Q 💠 💠 👫 🏺 Landmarked 🔻 🕨
🔁 landmarked-android-v2 📴 Landmarked 🛅 src 🛅 main 🛅 java 🖸 com 💽 detroitlabs 🛅 landmarked 🛅 utils 🔞 LandmarkedDataManager
  C Landmark.java ×
                                                                             C LandmarkedDataManager.java ×
        package com.detroitlabs.landmarked.models;
                                                                                   package com.detroitlabs.landmarked.utils;
        public class Landmark implements Comparable<Landmark>, Parce
  24 0
                                                                                  @EBean(scope = Singleton)
                                                                                  public class LandmarkedDataManager extends Observable {
            private List<String> categories;
                                                                                       private static final String JSON FILE LOCATION = "json/
            private String address;
            private List<LandmarkInfoCard> infoCards;
                                                                                       public enum LandmarkDisplayUpdateType {
            private LatLng latLng;
            private String name;
            public Landmark() {
                                                                                       protected Context context;
             public LandmarkEntity toEntity() {
                                                                                       @Bean
                 return new LandmarkEntity(this, now().toString(date
                                                                                       protected UserController userController;
                                                                                       private List<Landmark> landmarks = new ArrayList<->();
            public int getId() { return id; }
                                                                                       private Landmark activeLandmark;
  46 0
            public List<String> getCategories() {
                                                                                       @AfterInject
                 if (CollectionUtils.isEmpty(categories)) {
                                                                                       protected void initialize() { loadLandmarks(); }
                     return new ArrayList<String>();
                                                                                       public List<Landmark> getLandmarks() { return landmarks
```

Custom Inspections





Auto Imports



Preferences				
Q auto	Editor ▶ Auto Import			
Project Settings [landmarked-android-v2] Compiler (Gradle-based Android Projects) File Encodings Inspections ▼ Version Control Git IDE Settings Appearance ▼ Debugger Data Views ▼ Editor Smart Keys Code Completion Auto Import Postfix Completion General HTTP Proxy Intentions Keymap Plugins Server Certificates Updates	Show import popup Java Insert imports on paste: Ask Show import popup Optimize imports on the fly Add unambiguous imports on the fly Exclude from Import and Completion Junit.framework.Assert + -			

Terminal topics



iTerm 2

bash-related customization

Aliasing git commands

Handy Android functions

iTerm 2



Consider using in place of stock OS X Terminal app...

...or consider using zsh + oh-my-zsh?

(I'm not really a terminal/shell guru)

bash-related configuration



- cd ~
- touch .bash_profile (if it doesn't already exist).
- Open .bash_profile using your favorite editor.
- Customize!





```
alias gaa="git add ."
alias gb="git branch"
alias gba="git branch -a"
alias gc="git commit"
alias gcm="gc -m"
alias gco="git checkout"
alias gcob="git checkout -b"
alias gcom="gco master"
alias gmum="git merge upstream/master"
alias qd="qit diff"
alias gdg="gd --staged"
alias gdt="gd --stat"
alias gfp="git fetch --prune"
alias gl="git log --no-merges"
alias glb="gl master..HEAD"
alias glf="git log --pretty=oneline --abbrev-commit --graph --date-order --decorate"
alias glt="gl --stat"
alias qs="git status"
```





```
alias gaa="git add ."
alias gb="git branch"
alias gba="git branch -a"
alias gc="git commit"
alias gcm="gc -m"
alias gco="git checkout"
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alias gl="git log --no-merges"
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alias glt="gl --stat"
alias qs="git status"
```



Aliasing git commands

```
alias gaa="git add ."
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alias qd="git diff"
alias gdg="gd --staged"
alias gdt="gd --stat"
alias gl="git log --no-merges"
alias glb="gl master..HEAD"
alias glf="git log --pretty=oneline --abbrev-commit --graph --date-order --decorate"
alias qs="git status"
```

Aliasing git commands



```
1. bash
dte-energy-android [master] $ gl -5
94890b2 Updated README with a less-is-more approach [Matt Chowning]
4435407 Added gradle-versions-plugin [Matt Chowning]
0220b30 Up the maxPermSize to avoid 00M error. [Andrew Giang]
796ecb7 Temp fix for robolectric for appcompat v21... Should be fully compatible in Rob
olectric v3.0. More info can be found here: https://github.com/robolectric/robolectric/
issues/1332 [Andrew Giang]
bfbca53 Update spinner background. It seems that the new matrial spinner background (ab
c spinner mtrl am alpha) is transparent. So I imported the old spinner background we we
re using pre-v21. [Andrew Giang]
dte-energy-android [master] $
```

Aliasing git commands



```
1. bash
dte-energy-android [master] $ glf -7
    3a6f53b (HEAD, upstream/master, upstream/HEAD, master) Merge pull request #675 from
 andrewgiang/update-target
      7b096da Merge pull request #676 from mchowning/add-gradle-dependency-checker-task
     94890b2 (refs/pull/676) Updated README with a less-is-more approach
     4435407 Added gradle-versions-plugin
  * 0220b30 (refs/pull/675) Up the maxPermSize to avoid 00M error.
  * 796ecb7 Temp fix for robolectric for approximately v21... Should be fully compatible in
 Robolectric v3.0. More info can be found here: https://github.com/robolectric/robolect
ric/issues/1332
 * bfbca53 Update spinner background. It seems that the new matrial spinner background
 (abc_spinner_mtrl_am_alpha) is transparent. So I imported the old spinner background w
e were using pre-v21.
dte-energy-android [master] $
```





```
1. bash
dte-energy-android [02339ab] $ gcom
Previous HEAD position was 02339ab... Re-add Discover to list of AutoPay card options.
Switched to branch 'master'
Your branch is up-to-date with 'upstream/master'.
dte-energy-android [master] $ gco mr1
Switched to branch 'mr1'
dte-energy-android [mr1] $ touch test_file
dte-energy-android [mr1] $ gs
On branch mr1
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        test_file
nothing added to commit but untracked files present (use "git add" to track)
dte-energy-android [mr1] $ rm test file
dte-energy-android [mr1] $
```

Prompt customization



```
COLOR_RED="\033[0;31m"
COLOR_YELLOW="\033[0;33m"
COLOR_GREEN="\033[0;32m"
COLOR_BLUE="\033[0;36m"
COLOR_RESET="\033[0m"

# custom prompt
PS1=""
PS1+="\[$COLOR_BLUE\]\W\[$COLOR_RESET\]"
PS1+="\[\$(git_status_color)\]\$(git_branch_or_commit)\[$COLOR_RESET\]"
PS1+=" $ "
```

Prompt customization



```
function git_status_color {
  local git_status="$(git status 2> /dev/null)"

if [[ ! $git_status =~ "working directory clean" ]]; then
  echo -e $COLOR_RED
  elif [[ $git_status =~ "nothing to commit" ]]; then
  echo -e $COLOR_GREEN
  else
  echo -e $COLOR_YELLOW
  fi
}
```





```
function git branch or commit {
  local git status="$(git status 2> /dev/null)"
  local on branch="On branch ([^${IFS}]*)"
  local on commit="HEAD detached at ([^${IFS}]*)"
  if [[ $git_status =~ $on_branch ]]; then
    local branch=${BASH REMATCH[1]}
    echo " [$branch]"
  elif [[ $git status =~ $on commit ]]; then
    local commit=${BASH_REMATCH[1]}
    echo " [$commit]"
```

Handy Android functions



adb-screencap:

```
function adb-screencap () {
    adb shell screencap -p | perl -pe 's/\x0D\x0A/\x0A/g' > ~/Desktop/$1.png
}
```

Usage:

```
~ $ adb-screencap image_name
```

Result: saves screenshot image name.png to desktop.

git/Github topics



Autocomplete

Checking out PRs locally

GitHub navigation

Autocomplete



Assuming you already have Homebrew (if not, get it):

```
~ $ brew install bash-completion
```

Then, in ~/.bash_profile:

Checking out PRs locally



Standard remote configuration in .git/config:

```
[remote "upstream"]
    url = https://github.com/detroit-labs/dte-energy-android.git
    fetch = +refs/heads/*:refs/remotes/upstream/*
```

Checking out PRs locally



Manually add this extra line:

```
[remote "upstream"]
  url = https://github.com/detroit-labs/dte-energy-android.git
  fetch = +refs/heads/*:refs/remotes/upstream/*
  fetch = +refs/pull/*/head:refs/pull/*
```

Checking out PRs locally



Now you can check out PR commits (after fetching):

```
1 bash
dte-energy-android [master] $ git checkout pull/666
Note: checking out 'pull/666'.
You are in 'detached HEAD' state. You can look around, make experimental
changes and commit them, and you can discard any commits you make in this
state without impacting any branches by performing another checkout.
If you want to create a new branch to retain commits you create, you may
do so (now or later) by using -b with the checkout command again. Example:
  git checkout -b new branch name
HEAD is now at 38741e4... Use debug signing configuration for QA builds.
dte-energy-android [refs/pull/666] $
```

GitHub navigation



Shortcuts for navigating repositories:

- $g c \rightarrow go to code$
- $g i \rightarrow go to issues$
- g p → go to pull requests
- t → search for file by name

Chrome topics

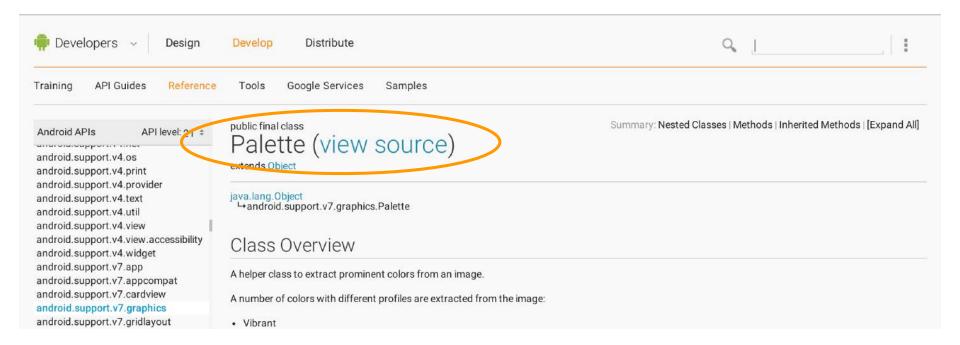


Android SDK Search plugin

Android SDK Search plugin



Maintained by Google guy Roman Nurik.



Android SDK Search plugin



Clicking 'view source' takes you directly to class code.

```
59. public final class Palette (
60.
61.
        1**
62.
         * Listener to be used with {@link #generateAsync(Bitmap, PaletteAsyncListener)} or
63.
         * {@link #generateAsync(Bitmap, int, PaletteAsyncListener)}
64.
         */
        public interface PaletteAsyncListener {
65.
66.
67.
             /**
             * Called when the {@link Palette} has been generated.
68.
69.
            void onGenerated(Palette palette);
70.
71.
72.
73.
        private static final int CALCULATE BITMAP MIN DIMENSION = 100;
        private static final int DEFAULT CALCULATE NUMBER COLORS = 16;
74.
75.
        private static final float TARGET DARK LUMA = 0.26f;
76.
77.
        private static final float MAX DARK LUMA = 0.45f;
78.
        private static final float MIN LIGHT LUMA = 0.55f;
79.
```

Fin... for real... for now...

