

CleanMethods Cheat Sheet

by ChaosJD via cheatography.com/99440/cs/21022/

Meaning	 Diet	motion
	IDISII	

What's source?

What is destination?

public static void copyChars(char a1[], char a2[]) {
... }

Use Pronouncable Names

Write names out!

Longer names trumps short Names

Searchable names trumps a constant in Code

Avoid Encodings

Make names pronouncable

Dirty:

Hungarian Notation

// Name **not** changed when type changed

PhoneNumber **phone**-String;

Method Names

Use verbs, phrases like PostPayment, deletePage or SavePage

Constructor Static factory uctor Methods, with Overload use describe the arguments

No Member Prefixes

//Historic => Old Code or old Coder private String **m**_dsc;

Interface & Implementation

Dirty Clean interface class

IShapeFactory ShapeFactoryImpl *****

interface

Shapefactory

Don't Repeat Yourself

Refactor Clone

Copy & Paste

Verbs And Keywords

verb/noun Pair:

(to)writeField(name);

assertExpectedEqualsActual(expected, actual);

Use Descriptive Names

The Sequence should tell a Story:

includeSetup-AndTeardownPages();

includeSuiteSetupPage();

includeSetupPages();

Use Problem Domain Names

If is there no Programming technique use the name from the Problem Domain

DomainDrivenDesign D3 not

D3.js

Use Solution Domain Names

AccountVisitor VisitorPattern

Dont' be cute

One Level of Abstraction per Function

interm- String pagePathName =
ediate PathParser.render(pagLevel ePath);
low .append("\n").

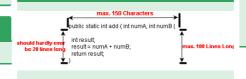
Level

Add Meaningful Context

addressFirstName addressLastName

addressState

Functions



Sideeffects

If you must have a temporal coupling, you should make it **clear in the name** of the function

checkPasswordAndInitializeSession()

Avoid Mental Mapping

Clean: loop Counter only: i, j, k

Dirty: **k** and **l** because

One (1) **7**=> too much

cont = continuation

Flag Arguments

Passing a boolean into a funciton is a truly terrible practise

render(boolean isSuite) 4

Structured Programming

Use * occasional multiple return,

* break and

* continue statement does no harm

Don't never, ever, any
USE goto statements

but only in special languages. Be careful, you can destroy or control flow

Function Arguments

Useless:

Niladic(0) best Solution:

includeSetupPage()

Polyadic (More then three Arguments):



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Function Arguments (cont)

ResponseEntity<Map> responseEntity1 = restTemplate.exchange (REST_SERVICE_URI+"/contract/"+ID, HttpMethod.PUT, entity, Map.class)

Usable

Monadic:

boolean fileExists("MyFile")

Dyadic:

assertExpectedEqualsActual(expected, actual);

Triadic:

assertEquals(1.0, amount, .001);

the next level down. MethodHeader:

To include the setups.

TO paragraph (cont)

To say this differently, we want

to be able to read the program

as though it were a set of TO

paragraphs, each of which is

describing the current level of abstraction and referencing

subsequent TO paragraphs at

Code:

Don't Pun

Instead of

insert(), append()

Use:

add()

we include the suite setup if this is a suite, then we include the regular setup.

only:

loop Counter i, j, k

Avoid Mental Mapping

Never I because One(1)

One Thing

Functions should do one thing. They should do it well. They should do it only

- * Aids the Reader
- * Promote Reuse
- *Eases Naming & Testing
- *Avoid Sideeffects

Don't add Gratuitous Context

You need:

- * descriptive Skills
- * shared cultural backround
- * Don't be afraid of Renaming
- * Use Refactoring Tools
- -> IntelliJ

Command Query Seperation

Either your function should change the state of an object, or it should return some information about that object:

public boolean set(String attribute, String value);

Clean:

if (attributeExists("username")) {setAttribute("username", "unclebob"); ... }

Dirty:

if (set("username", "unclebob")){...} *****

TO paragraph

one or two

not be greater then

We want every function to be followed by those at the next level of abstraction so that we can read the program, descending one level of abstraction at a time as we read down the list of functions.

Blocks And Indenting - Arrow Code

The indent level of a function should



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