

- Coding Style
- Video: Code Style

11 min
- Reading: Tabs vs. Spaces

5 min
- Reading: Bad Coding Standards

5 min
- Video: Code Style Examples

5 min
- Discussion Prompt: What is good style?

15 min
- Peer-graded Assignment: Code Style

Grading in progress
- Review Your Peers: Code Style
- Debugging and Static Analysis
- Comments and Self-Documentation
- Version Control and Build Process
- Quiz: Quality in Implementation

Peer-graded Assignment: Code Style

Review by Sep 9, 11:59 PM PDT

Reviews 1 left to complete

Style guide assessment

by Volodymyr Snihur

September 1, 2020

like

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PROMPT	RUBRIC
<p>Select three items of the style guide that you agree with and, for each, explain why. If there are not enough items you agree with, give your best estimation as to the reason behind the selection (in your own words) and the benefits it provides. Note: "There is no reason" and "There are no benefits" are not acceptable answers here.</p> <p>As a code style guide for this assignment I chose Google Java Style Guide (clickable link).</p> <p>Here are three points I agree with and explanation why (all names are clickable links to avoid retyping whole sections of style guide here):</p> <p>"4.5.1 Where to break" I agree with this rule because it makes code much more understandable and easier to read and/or modify. Line breaking in statements may occur and decision on where to break for example long lambda expression is ultimately with the coder, but style guide suggests that in such case lambda should not be broken adjacent to arrow symbol except when it consists of a single unbroken expression. This again removes much of a doubt and leads to better code readability (don't need to guess what is and what is not a part of this expression).</p> <p>"4.6.3. Horizontal alignment: never required" This is simple rule and may not have much impact on coding style in general case. Agree with it on the basis of it being more about what not to do when standardizing code (as in: horizontal alignment of variables with different name lengths is not required and thus such rules can be disregarded). Additionally, such alignment rules ("we need to align variables..." only: 1) add time when refactoring code and making it look pretty, and 2) do not make code much easier to read, from the outside perspective.</p> <p>"6.4 Finalizers: not used" This is the rule that basically says "even if you can and want to use custom Object.finalize... Do Not Do That". On the other hand threads on Stack Overflow such as this one suggest that it is better not to rely on finalize method at all. Well, unless you need to clean up non-java resources. (I personally use C# and let built-in garbage collector do the work for me).</p>	<p>Agreement #1: Is the item applicable and existing in the style guide?</p> <p><input type="radio"/> 0 pts No</p> <p><input checked="" type="radio"/> 1 pt Yes</p> <p>Agreement #1: Are there two reasonable perspectives on this item?</p> <p><input type="radio"/> 0 pts No</p> <p><input checked="" type="radio"/> 1 pt Yes</p> <p>Agreement #1: Is the justification reasonable?</p> <p><input type="radio"/> 0 pts No</p> <p><input checked="" type="radio"/> 1 pt Yes</p> <p>Agreement #1: Is the justification clear?</p> <p><input type="radio"/> 0 pts No</p> <p><input checked="" type="radio"/> 1 pt Yes</p> <p>Agreement #1: Is the justification well-written (grammar/spelling)?</p> <p><input type="radio"/> 0 pts No</p> <p><input checked="" type="radio"/> 1 pt Yes</p> <p>Agreement #2: Is the item applicable and existing in the style guide?</p> <p><input type="radio"/> 0 pts No</p> <p><input checked="" type="radio"/> 1 pt Yes</p> <p>Agreement #2: Are there two reasonable perspectives on this item?</p> <p><input type="radio"/> 0 pts No</p> <p><input checked="" type="radio"/> 1 pt Yes</p> <p>Agreement #2: Is the justification reasonable?</p> <p><input type="radio"/> 0 pts No</p> <p><input checked="" type="radio"/> 1 pt Yes</p> <p>Agreement #2: Is the justification clear?</p> <p><input type="radio"/> 0 pts No</p> <p><input checked="" type="radio"/> 1 pt Yes</p> <p>Agreement #2: Is the justification well-written (grammar/spelling)?</p> <p><input type="radio"/> 0 pts No</p> <p><input checked="" type="radio"/> 1 pt Yes</p> <p>Agreement #3: Is the item applicable and existing in the style guide?</p> <p><input type="radio"/> 0 pts No</p> <p><input checked="" type="radio"/> 1 pt Yes</p> <p>Agreement #3: Are there two reasonable perspectives on this item?</p> <p><input type="radio"/> 0 pts No</p>

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<div><div><div>PROMPT</div><div>Select three items of the style guide that you do not agree with and, for each, explain why. If there are not enough items you disagree with, give your best estimation as to why someone might disagree and what possible downside there is to using it.</div><div>Now onto three things I disagree with or that can be disliked by others (most of short Google Style Guide is surprisingly reasonable):</div><div>"5.2.8 Type variable names" Specifically first suggestion to use one letter or one letter and numeral naming. It is not descriptive enough, second suggestion, which takes class naming rules as its basis is better in my opinion.</div><div>"4.8.3.1 Array initializers: can be "block-like"" I disagree on this point on the basis of it being unnecessary, taking too much space and sometimes even harder to read than "normal" way of array initialization. Style Guide has examples of such declaration being done in a column-like way even... which is less easily readable, although it kind of highlights arrays.</div><div>"6.2. Caught exceptions: not ignored" While this is perfectly sound part of style guide and it is better to follow through on it regardless of application and, probably, even language used, I have to disagree a bit here. Mostly on the basis of it being unnecessary for example when it is a one-time-use program (this means that this code will most likely be discarded when it does the thing, in other words - deleted) or a training example. Besides, part of such exceptions are expected (which is covered in Guide) and/or do not need extensive logging. Example of such error would be encountering system folder when indexing files on a hard drive (system folders may be unreachable) to search for e.g. 0 byte files corrupted by failed "disk error correction". In this case logging error may be good, but is not necessary as all we need is for program to continue working through user defined folders and subfolders.</div></div><div></div></div>	<div><div><div>RUBRIC</div><div>Disagreement #1: Is the item applicable and existing in the style guide?</div><div><div><div></div><div>0 pts</div></div><div>No</div></div><div><div><div></div><div>1 pt</div></div><div>Yes</div></div></div><div>Disagreement #1: Are there two reasonable perspectives on this item?</div><div><div><div></div><div>0 pts</div></div><div>No</div></div><div><div><div></div><div>1 pt</div></div><div>Yes</div></div></div> <div>Disagreement #1: Is the justification reasonable?</div> <div><div><div></div><div>0 pts</div></div><div>No</div></div> <div><div><div></div><div>1 pt</div></div><div>Yes</div></div>
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Disagreement #1: Is the justification clear?

0 pts

No

1 pt

Yes

Disagreement #1: Is the justification well-written (grammar/spelling)?

0 pts

No

1 pt

Yes

Disagreement #2: Is the item applicable and existing in the style guide?

0 pts

No

1 pt

Yes

Disagreement #2: Are there two reasonable perspectives on this item?

0 pts

No

1 pt

Yes

Disagreement #2: Is the justification reasonable?

0 pts

No

1 pt

Yes

Disagreement #2: Is the justification clear?

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No

1 pt

Yes

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- ☐ 0 pts
No
☒ 1 pt
Yes

OVERALL ASSIGNMENT RUBRIC

Is the style guide from a reputable source?

- ☐ 0 pts
No
☒ 10 pts
Yes

Is the style guide accessible online?

- ☐ 0 pts
No
☒ 10 pts
Yes

Submit Review

Comments

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