# DWA\_01.3 Knowledge Check\_DWA1

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1. Why is it important to manage complexity in Software?

* To reduce the amount of Avoidable bugs, Unavoidable bugs.
* To assist in the success of the running of code
* Using simple code

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2. What are the factors that create complexity in Software?

-Sheer size of the project/scope or requirements of the UI

-Constant change to code due to User demands

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3. What are ways in which complexity can be managed in JavaScript?

Object orientated programming

Code refactoring (Simplicity)

Commenting

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4. Are there implications of not managing complexity on a small scale?

Avoid mid-level bugs, code can become complex and functional but not as we see fit. Comment and Monitor Syntax.

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5. List a couple of codified style guide rules, and explain them in detail.

JavaScript Standard Guide and Airbnb Style Guide

Long and short paragraphs, commas, diversify constants or variables to visually look different.

A coding style guide provides consistency, to review code so that it seems a single developer wrote it, Cohesion which assists to promote industry practices for efficiency.

Codification is the method by which a language is standardized.

Naming and Declaration rules for variables and functions, A variable name must start with a letter or an underscore, a Variable cannot start with a digit.

Use of white space, indentation and comments – spacing used to separate different elements of code as keywords, variables and operators, indentation is used to group lines of code showing which lines of code relates. Comments are used to add notes and explain the code ignored by computer and intended for human readers.

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6. To date, what bug has taken you the longest to fix - why did it take so long?

IWA 19 was the bug which took some time to figure out the Search function. And the Add Event listener. Due to the Original code having some errors and I had to keep on browsing through the code in order to figure it out. And the Day and Night Theme.

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