# DWA_01.3 Knowledge Check_DWA1

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

Managing software complexity is important to be able to make the code more readable and avoid bugs that would end up making the whole code crash and not achieve the aim of why it was initially cr

This will also help in the future when you have to get different people working on the code, so with reg managing complexity, you are able to edit it easily as a result of documentation in the code, that will m code readable and easy to fix or debug. Scaling is also an important factor with regards to managing c this ensures that your system is able to handle the growth effectively.

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


Bad coding style
Your code not documented
Similar variable names like book and books, which will likely cause you to have bugs.
Writting long code
Using the right case where it should be and clear variable name
Technical debt

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


Grouping of const and let
Keeping related things close
Building small pieces of software
Abstraction- which keeps code manageable
Modularisation

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




The implication can be bugs which might be the reason behind  your code not working and not doing what it should, and end up being the reason there might be a system crash.

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

Naming convention- this will help your code to be more readable

consistancy- trying to keep your code the same, if you use , ensure you use it on the whole code

Indentation- things helps your code look neater and more readable

Documentation- this also helps with regards to modularasation and being able to reuse the code and commenting so that the next person may know what you did and why.

Writting global constants in uppersnakecase

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

The problem I have had more than once and also different durations, it has to be not linking the scripts.js to HTML. That made me think everything was wrong as a result of not seeing any changes on my code. I have to say now, if ever i dont see a change, first thing I check is if I have linked it or not.