

# DWA\_01.3 Knowledge Check\_DWA1

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

- Complex code is more prone to bugs.
  - If code is not readable or too complex, we can make unnecessary errors, and some of these.
  - Bugs become harder to fix and locate if complexity is not managed
  - If code is kept simple, other devs are able to work on it and it becomes sustainable as it can be interpreted and improved upon.
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## 2. What are the factors that create complexity in Software?

- Project requirements can change over time
  - Writing code that does not read well and not adding sufficient comments
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## 3. What are ways in which complexity can be managed in JavaScript?

- Improving upon industry standard code styles
  - Adding comments where necessary
  - Use of abstraction
  - Object oriented programming
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## 4. Are there implications of not managing complexity on a small scale?

- If complexity is not managed on a small scale bugs and errors can pile up and become harder to fix.
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## 5. List a couple of codified style guide rules, and explain them in detail.

- Use camelCase for variable and function names - Using camelCase improves readability and consistency in code. It distinguishes variables and functions from other elements, such as class names, and makes them easier to identify.

- Indent using spaces, not tabs: When indenting code blocks, it is recommended to use spaces instead of tabs. A common convention is to use two or four spaces for each level of indentation. This rule ensures consistency and avoids formatting issues when code is viewed in different environments or editors.
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6. To date, what bug has taken you the longest to fix - why did it take so long?

- I had a bug where my output kept showing as NaN, it took a while but i eventually realized that type coercion was causing my calculations to result in a string.
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