

DWA_01.3 Knowledge Check_DWA1

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

- Our code needs to be easily readable, because others will work on it.
- Less complexity allows you to find and manage errors easier.
- Also allows the errors to be detected by the software.
- Code is often expanded upon months after being worked on, So it's important to make sure you can pick up where you left off.

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

- Confusing naming conventions.
- Not being mindful of plurals.
- Giving variables names that don't correspond to their function.
- Not properly sectioning your code.
- A lack of commentary to explain each part of the code.
- A lack of abstraction (Creating the need to know more about the Internal workings of a piece of code, creates complexity).

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

- Declare your variables properly (let and const), and make your variables more descriptive.
 - Differentiate variable names.
 - Keep related code together.
 - Set up proper error states to check your functions.
 - Abstraction helps someone work with code, because people only need to what the code does, not how it Works.
 - Make sure that your key piece of code that can work in any circumstance.
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4. Are there implications of not managing complexity on a small scale?

- It makes it harder to sift through the code for errors.
 - The code becomes harder to understand, for anyone working on it.
 - Modifications might create new errors.
 - If the code is too complex, quick fixes become harder to do for smaller issues.
 - The code also becomes much harder to modify, as the project evolves and grows.
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5. List a couple of codified style guide rules, and explain them in detail.

- Make sure your code is nested properly.
Indent 'children', so we know which parent they're related to.
It also lets us know the order in which the code will run.
 - Only leave comments for important information.
Too many comments make the code much harder to read.
If the code is not self-explanatory, try to make it more readable,
Rather than relying on comments.
 - Take out any unnecessary comments or variables.
Comments or variables that are no longer necessary, should be removed as they only clutter the overall code.
 - Give variables names that make sense.
It makes it easier for people to understand what the variables is used for.
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6. To date, what bug has taken you the longest to fix - why did it take so long?

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