# DWA_01.3 Knowledge Check_DWA1

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

To ensure that we do not make costly mistakes but also to help improve the readability of our code for ourselves and people who will work on it after us

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

- Bad code styling
- Non-descriptive variable and function naming
- Lengthy code
- No documentation where it might be needed
- No error catching

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3. What are ways in which complexity can be managed in JavaScript?
- By following set out style guidelines for out code
- Naming variables and in a descriptive manner
- Separating our lengthy files into smaller files
- Using JSDoc and comments to describe what functions do
- Catching errors and preventing the program from running further until these issues are resolved

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

We will be left with confusing code that is difficult to read and update/maintain

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5. List a couple of codified style guide rules, and explain them in detail.
   - Use const instead of var so that we can't reassign our references
   - Use literal syntax when creating objects so we can define all the variables in one place
   - Strings that go over 100 characters should go across multiple lines so our code is easier to read and also more searchable

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6. To date, what bug has taken you the longest to fix - why did it take so long?
In the JS capstone project, I had a createPreviews function that gave me many headaches. If I had documented this function as I coded It would have made things a lot easier to read and debug

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