

# DWA\_01.3 Knowledge Check\_DWA1

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

So that as a Developer, you do not get overwhelmed by different projects. Each unique piece of code is going to have its own unique challenges and if you treat them as all the same, whatever is needed to be done, will never be done or it will not be done properly.

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

Programming in itself is complex, it is not simple or straightforward.

The programming world is an ever evolving place, so in order to be able to keep up, you need to be constantly doing research in order to stay up to date.

Each program has its own scale, in terms of, the amount of work and time that needs to be put into it.

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

There are ways to style your code in order to make it less complex, styling guides that are available online.

When coding, comments on the code help a lot for someone who is reading your code to understand it and figure out what exactly is being done.

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

Yes, as mentioned in the videos, if a bug is not dealt with properly it can be catastrophic. The consequences of not managing code can not only impact your own code but the work of others as well, causing an entire failure of a project.

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

Using either only ' ' or " " when declaring variables, this will ensure that nothing will be interpreted as string when it is not meant to be.

When naming variables you should not use variables that are ambiguous to anyone that might read your code, as this can lead to confusion should someone work on your code.

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

It was in the IWA course, which was figuring out how to make the loop in order to have the books images and authors shown in the website.

My thinking surrounding the loop initially was what was causing me to have the wrong approach towards the problem.

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