

DWA_07.4 Knowledge Check_DWA7

1. Which were the three best abstractions, and why?

Book preview function: Made use of a function to call the book previews based on exported "books" variable instead of typing out each book ID to be displayed per page. It made accessing the books far easier by using a more readable alternative to the code. Uses another display function that is reusable in the codebase for the purpose of restructuring webpage results using the exported "BOOKS_PER_PAGE" variable and can be called whenever needed in the code.

Book details function: It is incredibly functional, maintainable, and readable.

Genre and author drop-down list function: It proved to be an abridged alternative to having two separate functions dedicated to controlling the dropdowns independently.

2. Which were the three worst abstractions, and why?

Search button: It had unread variable declarations that I had missed previously.

Book results filter: The abstraction appeared too long and seemed a lot more complex to the eye.

Show more button: Even after the abstraction, the code still looked messy and not as readable as I would've liked it to be.

3. How can The three worst abstractions be improved via SOLID principles?

Search button: I removed the unread variable declarations from the codebase.

Book results filter: I made use of SRP by having a separate data.js file with variables holding all the data values needed in the main scripts.js file and implementing OCP by importing the module variables into my scripts.js file to clean up the functions and code snippets that would need to fetch the variable values without convoluting the rest the codebase.

Show more button: I could use ISP to avoid creating large, bloated interfaces that are more difficult to maintain and understand at first glance.
