

DWA_07.4 Knowledge Check_DWA7

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

The addition of the `createBookHtml` function. The `HTMLElement` that displays the image, title and author of listed books was created three times using the same template literal. Creating the function that created this template literal and calling it in the three instances makes the code more compact and reusable.

Assigning methods that return elements to variables if they were used more than twice. This helps avoid typing errors

Creating event listeners to call functions. This makes the code easier to read

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

Adding the code that adds “All authors” and “All genres” option to “Author” and “Genre” options respectively in a function. It does not make much any difference as it is unlikely to be reused.

Creating the object which contains properties of set rgb colours for the theme and creating the function that sets the theme to the selected theme in settings. It is hard to read and does not make the code more reusable compared to the original code

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

Incorporating the functions that add the “all authors” and “All genres” option with the iteration that adds the genres and authors properties to the dropdown list would make the code more compact and possibly more reusable if refactored such that more options can be added as opposed to the hardcoded “All Authors” and “All Genres” option.

I tried to find out how it can be improved but it seems it cannot be coded to be more compact and reusable to avoid typing errors. I would probably stick to the original code and only use abstraction if the themes and colours were more
