

DWA_07.4 Knowledge Check_DWA7

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

```
// BEST ABSTRACTIONS
💡
// 1. themeUtils.js
// 2. searchDropdownUtils.js

// 3.

> /** `updateShowMoreBtn` updates the 'show more' button visually depending on the `remainingBooks` ...
const updateShowMoreBtn = (object) => {
  data.list.button.innerHTML =
    /* html */
    `<span>Show more</span>
    <span class="list__remaining"> ${remainingBooks(object)}</span>`;
};
```

1. I like that it's like a tool box
 2. "
 3. Very straightforward, does one job, very few lines, and I think it's cool how it works with another function
-

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

```
// WORST ABSTRACTIONS

// 1.

> /** Filters the books based on the user's search form entries. ...
> const filterBooks = (books, filters) => { ...
  };

// 2.

> /** `createBookElement` creates the button element for each of our main list of books and the
> const createBookElement = ({ author, image, title, id }) => { ...
  };

// 3.

/** `day` contains the dark and light colours for the day theme */
> const day = { ...
  };

/** `night` contains the dark and light colours for the night theme */
> const night = { ...
  };

```

1. Way too many lines, overwhelming
 2. Does two different things
 3. Could be much better, packed into one object
-

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

```
// IMPROVEMENTS
```

```
// 1.
```

```
const filterBooks = (books, filters) => {  
  for (let book of books) {  
    checkTitleMatch()  
    checkAuthorMatch()  
    checkGenreMatch()  
  
    if (titleMatch && authorMatch && genreMatch) {  
      searchResults.push(book);  
    }  
  }  
};
```

```
// 2.
```

```
const createBookHtml = ({ author, image, title, id }) => {  
  createBookElement()  
  
  bookElement.innerHTML = `/* html */`  
    
  <div class="preview__info">  
    <h3 class="preview__title">${title}</h3>  
    <div class="preview__author">${authors[author]}</div>  
  </div>`;  
  
  return bookElement;  
};
```

// 3.

```
✓ const themeReferences = {  
✓   day: {  
     light: "255, 255, 255",  
     dark: "10, 10, 20",  
   },  
✓   night: {  
     light: "10, 10, 20",  
     dark: "255, 255, 255",  
   }  
};
```