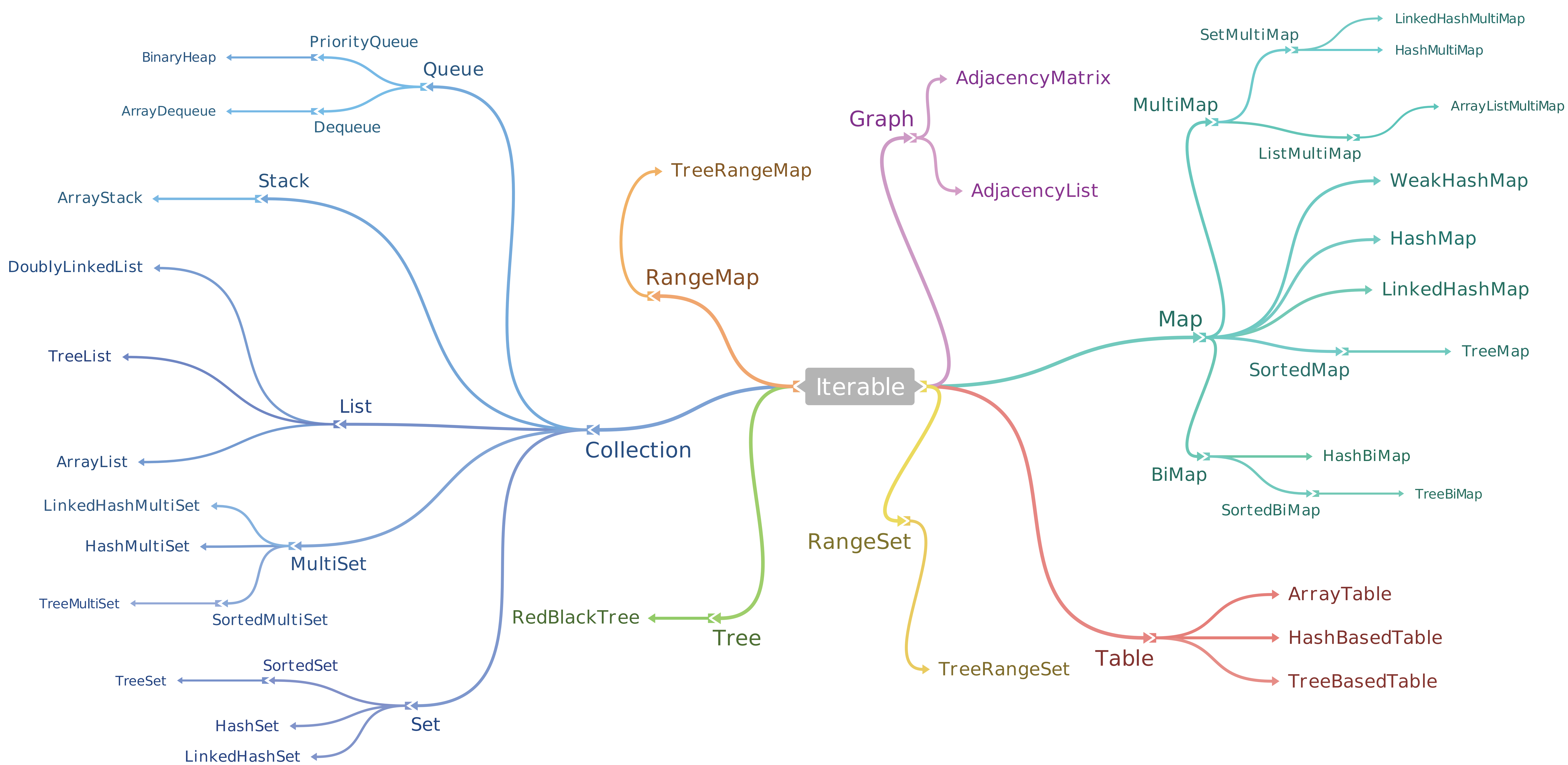


Data Structures for TypeScript and JavaScript



Problem

In JavaScript & TypeScript the only data structures provided are arrays, and string key hash maps. This limits the ability of developers to solve problems; where other data structures would work better with less code and more efficiency. **Existing solutions include some of the following pitfalls:**

- ⊖ Limited in scope
- ⊖ No static typings for TypeScript
- ⊖ Incompatible APIs
- ⊖ Lack modularity
- ⊖ Lack separation of interface and implementation
- ⊖ Doesn't take advantage of the upcoming features of JavaScript

Solution

Create a comprehensive library of well-researched data structures which will **increase** the **productivity** of JavaScript and TypeScript developers.

Release the library as **open source with permissive licensing**, and accept public contributions as well.

Results

Success was gauged by:

- ⊖ Published public modules containing the completed library
- ⊖ **Extensive test coverage**
- ⊖ Surveys conducted on various online development communities in order to determine the utility and quality of the library.
- ⊖ **Documentation for public APIs**