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