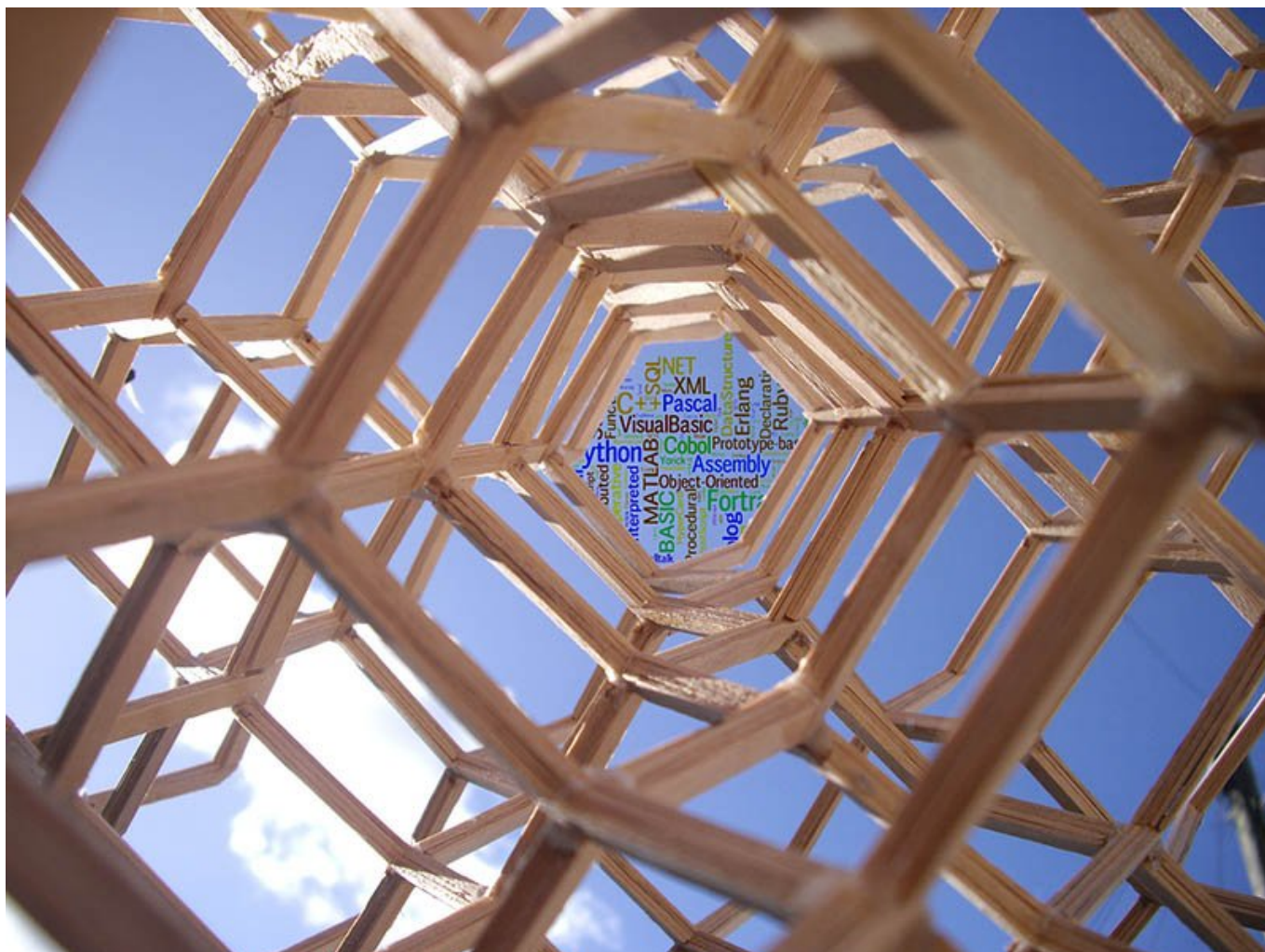


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9. Garbage Collection and Memory Management

Memory management is a critical aspect of programming. In this chapter, we will explore the concepts of memory management, garbage collection, and how they relate to JavaScript. We will discuss the different types of memory management, the role of the garbage collector, and how to manage memory in JavaScript. We will also cover the concept of memory leaks and how to avoid them. The chapter will conclude with a discussion of the importance of memory management in web development.

Memory Management

Memory management is the process of allocating and deallocating memory for a program. It is a fundamental part of computer science and is essential for the efficient execution of any program. In this section, we will discuss the different types of memory management, the role of the garbage collector, and how to manage memory in JavaScript.

API for Memory Management

The JavaScript API for memory management is designed to be simple and easy to use. It provides a set of functions that allow developers to allocate and deallocate memory. The API is implemented in the form of a set of functions that are available to all JavaScript code. The functions are designed to be intuitive and easy to use, and they provide a high level of abstraction over the underlying memory management system.

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