

Where are Variables Stored?

In this lesson, you'll get the idea of how variables are stored in the memory.

WE'LL COVER THE FOLLOWING ^

- Introduction
- Example

Introduction

A variable is a place in memory where the application can store some type of information.

You can think of memory as an "array of **bytes**". Each **byte** possesses a memory address.

Upon variable declaration, a memory location is reserved for that variable.

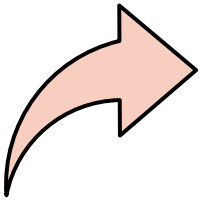
Example

For example, we declare an **int** variable which covers **4 bytes** and a **char** variable which spans over **2 bytes** of memory:

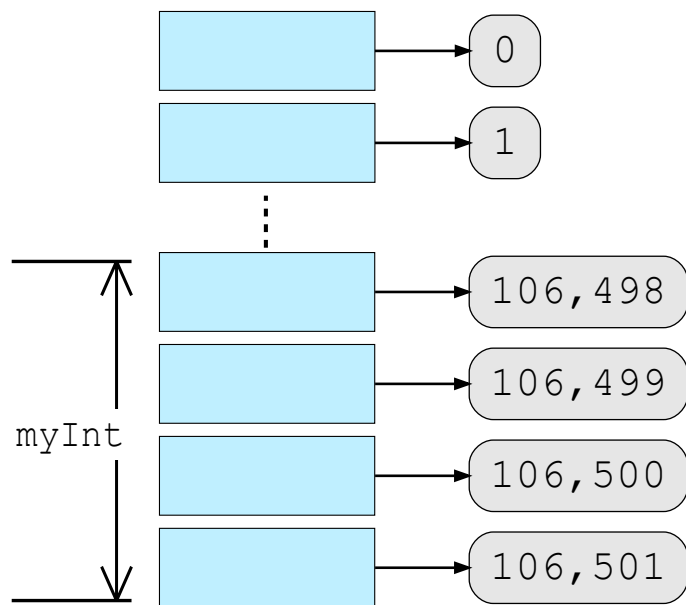
```
using System;

namespace VariablesExampleOne
{
    class Program
    {
        static void Main(string[] args)
        {
            int myInt;
            char myChar;
        }
    }
}
```





4 bytes reserved in memory
from location, say, 106,498 to
106,501 for the variable
"myInt".



Memory Representation for Variable Storage

You'll learn more about [Variable Types](#) ahead.



Note:

1 byte = 8 bits

Cool, right? Let's learn the variable syntax in the next lesson.