

Strings

Java Reference

String methods

A `String` 字符串 is text. Useful methods: `.length()`, `.charAt(i)`, `.substring(a, b)`, `.indexOf(x)`, `.toUpperCase()`, `.equals(...)`. Strings are immutable 不可变—each method returns a **new** `String`.

```
public class Main {
    public static void main(String[] args) {
        String s = "Python";
        System.out.println(s.length());           // 6
        System.out.println(s.charAt(0));         // P
        System.out.println(s.substring(0, 3));   // Pyt
        System.out.println(s.toUpperCase());     // PYTHON
    }
}
```

Building & traversing strings

Join strings with `+` (concatenation 拼接). Visit each character with a loop and `.charAt(i)`.

```
public class Main {
    public static void main(String[] args) {
        String word = "banana";
        int count = 0;
        for (int i = 0; i < word.length(); i++) {
            if (word.charAt(i) == 'a') count++;
        }
        System.out.println(count); // 3
    }
}
```