Java 8 Cheat Sheet – Most Used Conversions – Char To String

Most often used java conversions all together: char to string, string to char, char to int, int to char, get the length of a string and more.

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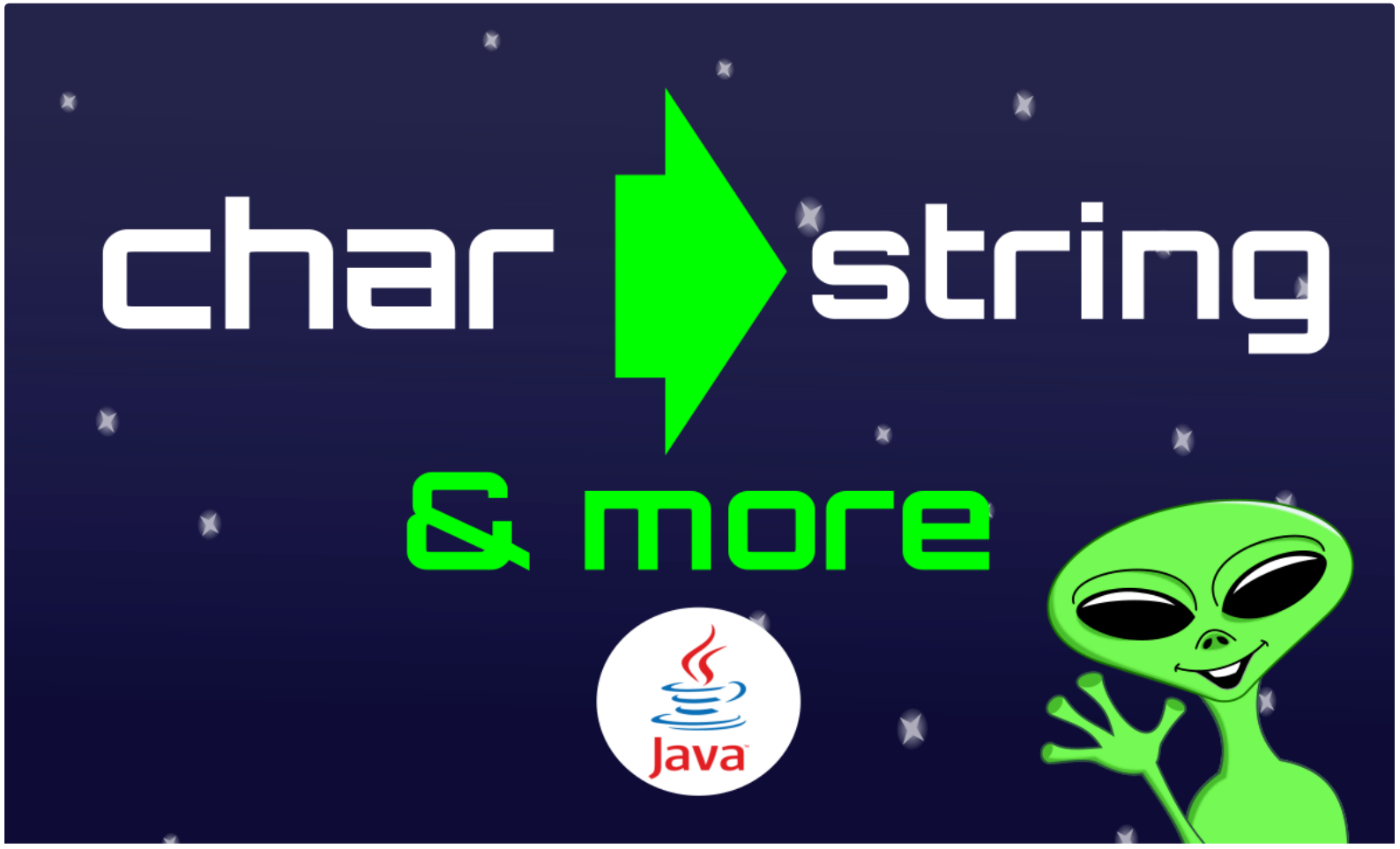

In this article I put together a**ll of the conversions that are searched most often**. Since java is a strong typed language, you will find yourself converting variables from one type to another quite often. The conversions below are some of the **most searched conversions, like char to String, String to char and more**. Having them all together in a piece of paper, close to your laptop, will **save you time** when you are programming.

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All conversions will use only native java, no third-party libraries.

Let’s dive into each one of them!

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Char to string java

There are three different ways to **convert a char to string**. Below you can find the **three ways**, using only native java.

Approach #1

The `Character` class has a static method `toString()`that is designed for this use case. See below how it works:

```
1 public class Sample {
2     public static final void main(String[] args){
3         String string1 = Character.toString('c');
4     }
5 }
```

Approach #2

Here is another way, which is equivalent to the one above. You can create an instance of the class `Character` **using its constructor**. This is called boxing. Boxing means wrapping a primitive type with its equivalent object type.

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Once you wrap the character, you can call the `toString()` method to get the String. See below how this works:

```
String string2 = new Character('c').toString();
```

Approach #3

The **String class** also offer a way to convert char to string. You can use the static method `valueOf()` passing as a parameter(or argument), the character you want to convert. As a result, you will get exactly the same character saved in a string variable. See below how this will work:

```
public class Sample {
    public static final void main(String[] args){
         String string3 = String.valueOf('c');
    }
}
```

String to char

You might encounter situation where you have a string, that you need to convert to a char. The **String class** offers a method dedicated to this purpose, the `charAt()` **method**. Given a string, and the index of the letter or digit you want to convert, this method will return the corresponding character. See how this works below:

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```
public class Sample{
    public static final void main(String[] args) {
       char variable = "c".charAt(0);
       System.out.println(variable);
    }
}
```

Output:

```
c
```

Java char to int

When converting char to int, or the other way around, keep in mind each character has its corresponding ascii number that represents the character. As you can see in this ascii table, each character has a corresponding decimal number that uniquely represented.

Approach #1

This approach will convert a char to its corresponding decimal ascii number. All you need to do is **casting the char variable to an int**, and you will get the decimal character. Or you can do the opposite conversion. Given an ascii decimal number, get the corresponding character. See this in action in the example below:

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```
public class Sample {
   public static final void main(String[] args) {
      char variable1 = 'c'; // ascii number = 99
      System.out.println((int)variable1);
      System.out.println((char)99);
   }
}
```

Output:

```
99
c
```

Approach #2

This approach will convert the string to its numeric value. In this case, to convert from char to int, first you need to convert the char to string, using `String.valueOf()`. Then using the static method `Integer.parseInt()`, convert the string to its int numeric value. See how this works below:

```
public class Sample{
    public static final void main(String[] args){
        int int1= Integer.parseInt(String.valueOf('1'));
```

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```
4         System.out.println(int1);
5     }
6 }
```

Output:

```
1 1
```

Approach #3

And the last approach to convert a char to int in java. The **`Character` class** provides a static method called **`getNumericValue()`** that is aiming this use case. As argument, you need to pass the character, and it will return an integer containing the character numerical value. See how to action this below:

```
1 public class Sample {
2     public static final void main(String[] args){
3         int int2= Character.getNumericValue('2');
4         System.out.println(int2);
5     }
6 }
```

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Output:

```
2
```

Int to char java

Sometimes you will have a number and you might want to convert to a char to append it to a string, for instance. The **`Character` class has the static method `forDigit()`**, that is designed for this scenario. As parameter, you will need to pass, first the number to convert, and second the numeric base, 10 for decimal numbers. As a result, this method will return the number as a char. See how this works in the example below:

```
public class Sample {
    public static final void main(String[] args){
       char char1 = Character.forDigit(3,10);
       System.out.println(char1);
    }
```

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```
6 }
```

Output:

```
1 3
```

Length of a string

There are many situation while programming where you will need to get the string length. For instance, verifying if a string is empty. Fortunately, the `String` **class has a method** aiming exactly this scenario. The `length()` method. This method will return a number containing the string size. See how this works below:

```
1 public class Sample{
2     public static final void main(String[] args){
3         String text = "hey there";
4         int length = text.length();
5         System.out.println(length);
6     }
7 }
```

Ouput:

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```
5
```

Or you can call the `length()`method directly on the literal string, and avoid using an intermediate variable. See the example below:

```
int length = "hello".length();
```

String to char array java

Another very often used data conversion is converting a string to a char array. This enables you to loop through each character. The **`String` class provides a method for exactly this purpose. The `toCharArray()`** method, will return a char array containing all string letter, without changing its order. See example below illustrates how the `toCharArray()` method works:

```
public class Sample{
    public static final void main(String[] args) {
        String text = "Hey there";
        // Convert string to char array
        char[] array = text.toCharArray();
        for(char c: array){
            System.out.println(c);
```

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```
 8          }
 9      }
10 }
```

Output:

```
1 H
2 e
3 y
4
5 t
6 h
7 e
8 r
9 e
```

Reverse a string in java

There are various string checks and operations that you might require you to reverse a string in java. You can use a loop to iterate the string from end to start, however java offers a simpler way. The **`StringBuilder` class** has a method called **`reverse()`** that will reverse the string order. First, create an StringBuilder instance using its constructor. Next call the

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`reverse()` method. And last convert the StringBuilder to String with the **`toString()`** method. See how this works below:

```
1 public class Sample {
2     public static final void main(String[] args) {
3        String variable = "Hey there";
4        String reversed = new StringBuilder(variable).reverse().toString();
5        System.out.println(reversed);
6     }
7 }
```

Output:

```
1 ereht yeH
```

Java list to array

Converting a list to an array in java is a common operation. For this purpose, the **`List`** **class has a method called** **`toArray()`** which will return an array. As a parameter, you need to pass the elements type. See how this works below:

```
```

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```java
import java.util.Arrays;
import java.util.List;

public class Sample {

    public static void main(String[] args) {
       List<Integer> list = Arrays.asList(54, 234, 64, 23);
        Integer[] array = list.toArray(new Integer[0]);
        for(Integer i:array) {
            System.out.println(i);
        }
    }
}
```

Output:

```
54
234
64
23
```

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How to print an array in java

Java 8 has introduced the stream feature. This feature removed the need to use loops to iterate through a collection. This allows to perform an action for each collection item, easily with one code line.

In this case we want to print each collection item. First we will need to convert the array to a **Stream instance using the `Stream.of()`. Next we can use the `forEach()` method**, passing as parameter the operation to perform. See how this works below:

```
1 import java.util.stream.Stream;
2
3 public class Sample {
4     public static void main(String[] args) {
5         String[] array = {"something","fresh","hi"};
6         Stream.of(array).forEach(System.out::println);
7     }
```

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```
8 }
```

Output:

```
1 something
2 fresh
3 hi
```

Char array to string java

And last conversion. Converting a char array to a string is quite common and easy to forget operation. There are two ways to do this conversion.

Approach #1

You can convert a char array to a string simply using **the `String` constructor**, which accepts a char array as a parameter. See an example below:

```
1 public class Sample {
2     public static void main(String[] args) {
3         char[] array = {'c','o','d','i','n','g'};
```

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```
        String text = new String(array);
        System.out.println(text);
    }
}
```

Output:

```
coding
```

Approach #2

And there is another alternative way to convert a char array to a string. The **`String` class has a static method `valueOf()`**, which also accepts a char array as a parameter. This method will append all chars and return a string. See how this works below:

```
public class Sample {
    public static void main(String[] args) {
        char[] array = {'p','r','o','g','r','a','m','m','i','n','g'};
        String text = String.valueOf(array);
        System.out.println(text);
    }
}
```

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```

```

Output:

```
1 programming
```

Conclusion

To summarise, we have seen some of the most used conversion in java, including: char to string, string to char, char to int, int to char, get the length of a string, convert string to char array, reverse a string in java, convert list to array and converting a char array to a string.

These conversions are quite easy to forget. You can write them all down in a post so you can refer them easily when you are programming.

I hope this tutorial was helpful and thanks for reading and supporting this blog! Happy Coding! ☺

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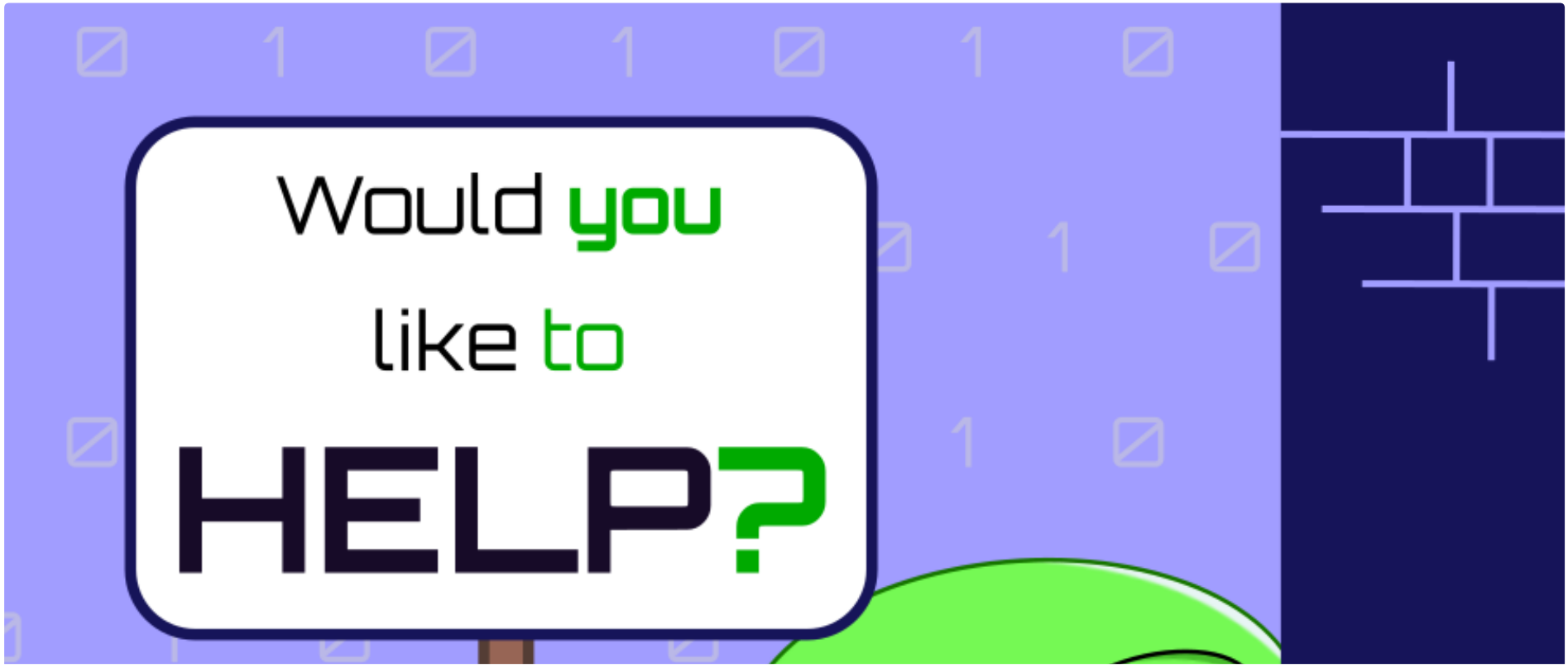

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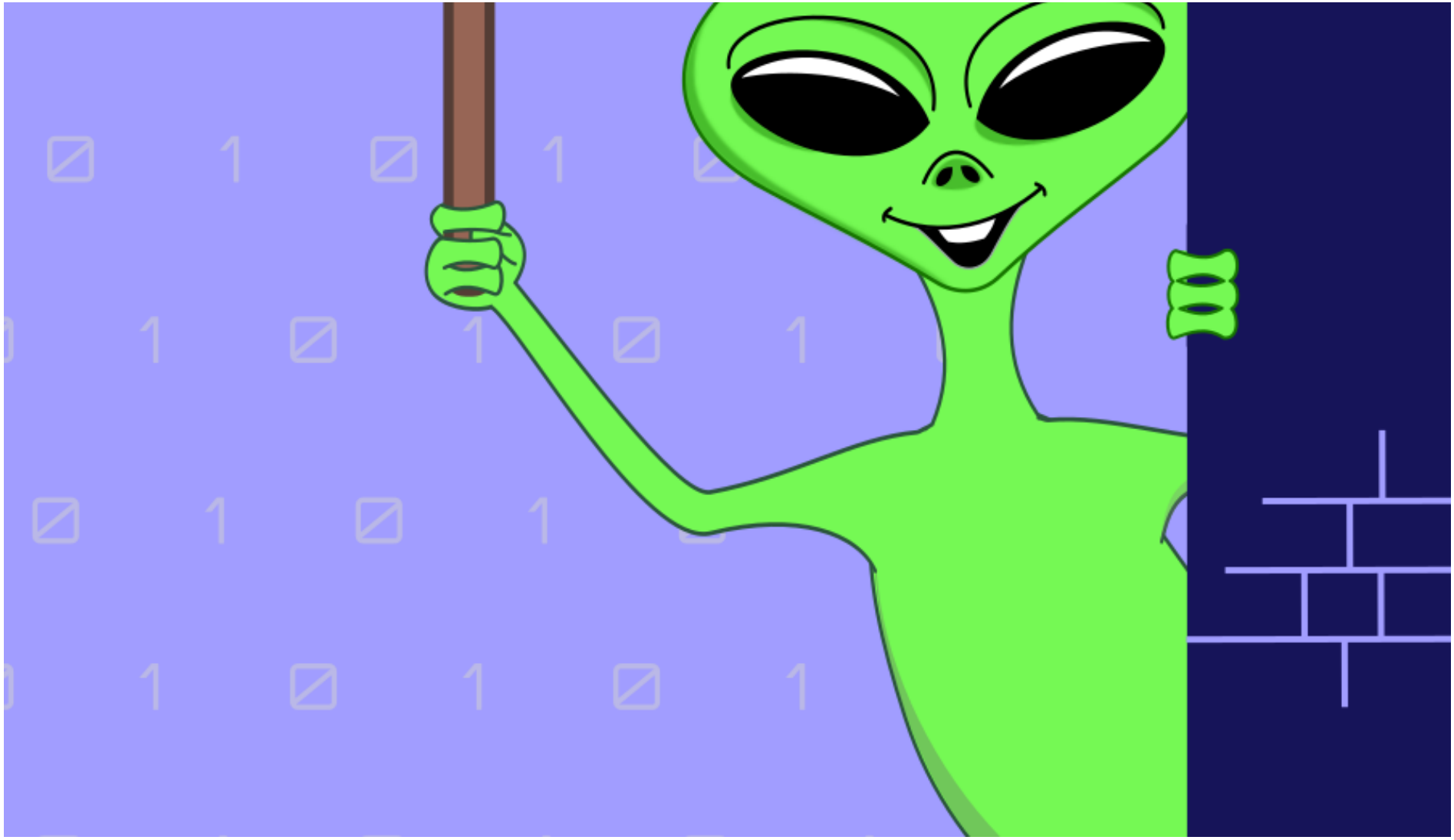

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