ChildScript v1.0 Documentation

The Sassy Beginner-Friendly Coding Language for Curious Kids and Lazy Adults.

🧠 What is ChildScript?

ChildScript is a custom-made beginner programming language that's as simple as Lego blocks and as sassy as your best friend who roasts you *with love*. It's designed to help **kids**, **beginners**, or anyone scared of `{}` and `System.out.println()` to just start *thinking* like a programmer.

No semicolons flying around like mosquitoes, no scary syntax, just pure readable code with a sprinkle of fun.

🚀 Why ChildScript?

- 🔧 **Beginner-friendly**: Built with the idea of teaching coding concepts in a natural language style.
- 💡 **Logical first**: Focuses on logic, problem-solving, and flow—not memorizing 10 ways to print something.
- 🧱 **Modular & Extendable**: Built with JS/Node backend, React frontend, and an online playground.
- 📱 **Runs on anything**: Works on laptops, tablets, phones, even that dusty Chromebook in your attic.
- 🤹 **Fun + Educational**: Taught you logic and also taught your array how to do a cartwheel (via `.reverse()`).

✨ Basic Syntax + Features

🖨️ `print(...)`

Prints anything to the screen.

```
print("Hello world!");
print(x);
```

Supports:

- Strings: `"Hello"`
- Numbers: `123`
- Expressions: `x + 10`
- Arrays: `a = 1,2,3; print(a);` → prints `1, 2, 3`

🧠 Variables

You can declare and assign variables like this:

```
let x = 10;
let name = "Mithil";
x = x + 5;
```

🔁 Loops

For Loop

```
for i = 0 to 5:
  print(i);
```

While Loop

```
let i = 0;
while i < 5:
  print(i);
  i = i + 1;
```

❓ Conditional Statements

```
let age = 18;

if age >= 18:
  print("Adult");
else if age > 12:
  print("Teen");
else:
  print("Kid");
```

📦 Arrays

```
array a = 1, 2, 3, 4;

print(a[2]);  // Output: 3
print(a); //Output: 1,2,3,4
```

🧪 Array Functions (a.k.a. array superpowers)

```
a.sum();       // Adds all numbers → 10
a.product();   // Multiplies them → 24
a.length();    // Total elements → 4
a.max();       // Max value → 4
a.min();       // Min value → 1
a.sort();      // Sort ascending → [1, 2, 3, 4]
a.reverse();   // Reverse the array → [4, 3, 2, 1]
```

These work exactly like calling a function. ChildScript is secretly a magician.

🧪 Example Program

```
array nums = 2, 4, 6, 8;
print(nums.sum());       // 20
print(nums.length());    // 4

let age = 12;
if age > 18:
  print("Adult");
else:
  print("Grow up first");
```

💬 Final Thoughts

ChildScript is **still growing** — but it already has enough powers to help you:

- Understand how computers think
- Build logic step by step
- Write readable, happy-looking code

Use it. Break it. Learn from it..

Created with ❤️ by Mithil — because “Hello World” shouldn’t feel like rocket science.