

# Brainfuck Manual

## 1 Pointer instructions

### 1.1 Increment pointer (>)

The > instruction increments the cell pointer by one.

### 1.2 Decrement pointer (<)

The < instruction decrements the cell pointer by one.

## **2 Arithmetic instructions**

### **2.1 Increment cell (+)**

The + instruction increments the current cell value by one.

### **2.2 Decrement cell (-)**

The - instruction decrements the current cell value by one.

### **3 I/O instructions**

#### **3.1 Output (.)**

The . instruction outputs the current cell value.

#### **3.2 Input pointer (,)**

The , instruction stores input in the current cell.

## 4 Control flow instructions

### 4.1 Conditional branch ([])

The [] instruction causes the CPU to branch to the corresponding [] instruction if the current cell is zero. If the current cell value is nonzero, the CPU does nothing.

### 4.2 Unconditional branch ([])

The [] instruction branches to the corresponding [] instruction.