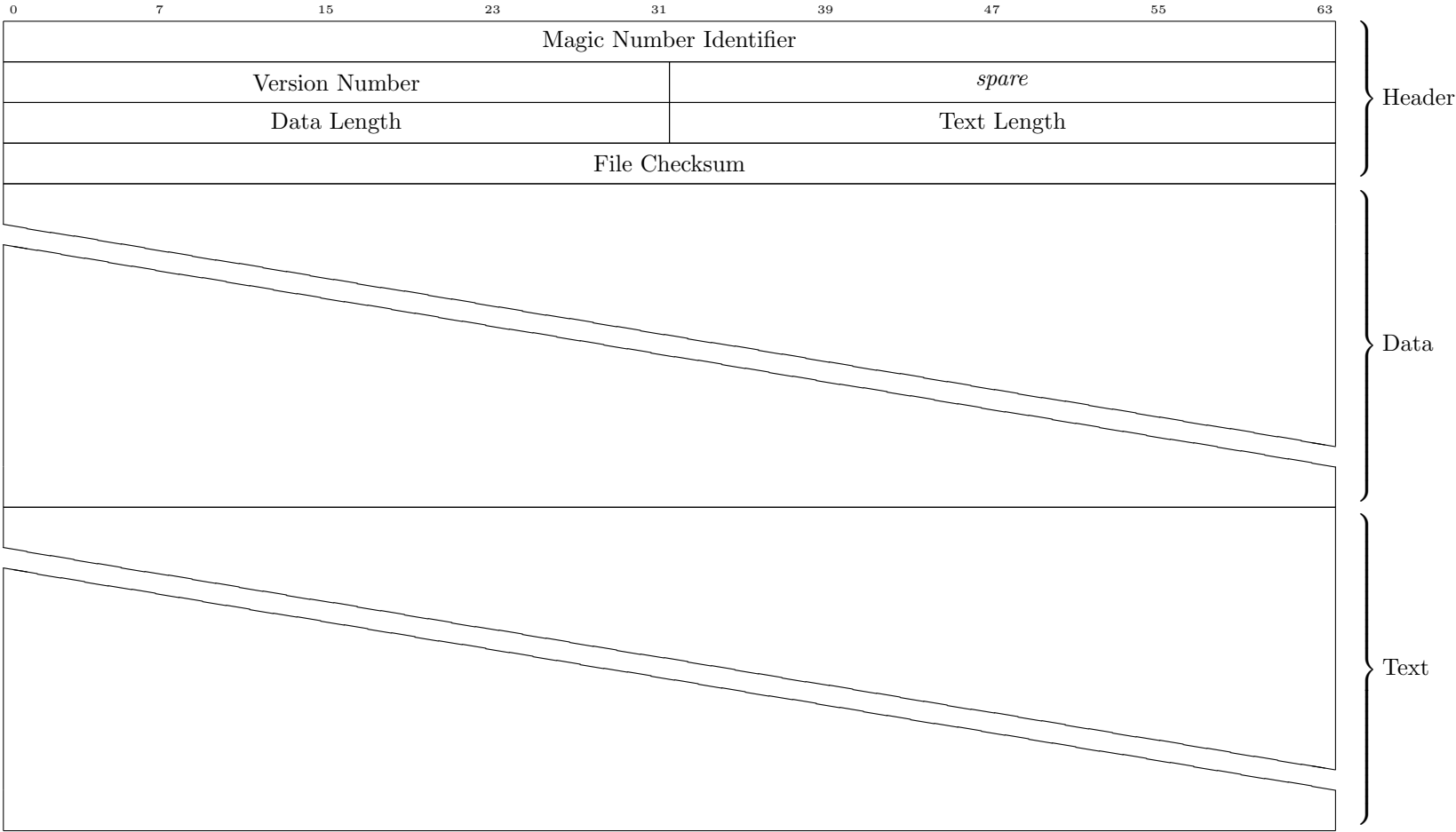


File Format



## Field descriptions

### Magic Number Identifier

0xF0 0x9F 0x8D 0x8C 0xF0 0x9F 0x8D 0x8C

A unique 64-bit value to mark the beginning of a `.bb` file. Value is two copies of the UTF-8 encoding for the “Banana” emoji concatenated.

### Version Number

BNA version for this file. Not currently used.

### Data Length

Length of the Data segment in bytes.

### Text Length

Length of the Text segment in bytes.

## Data Segment

### Entry Format

identifier	<i>spare</i>	type	data length
data			

#### Identifier

Identifier for this value. Used in instructions to find the value of this literal.

#### Type

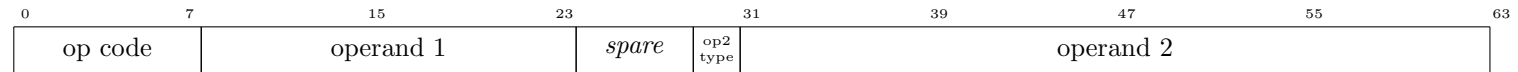
Data type of the value(s).

#### Length

Length of the data entry in **bytes**.

## Text Segment

### Instruction Format



#### op code

Identifier for the instruction to execute. Two special values, `0x00` exits the program and `0xFF` represents an invalid or unknown instruction (possibly will use for NOP later).

#### operand 1

Identifier for the first operand of the instruction. Special value `0x00` is `null` and is for instructions with no first operand.

#### op2 type

The type of operand in the `operand 2` field. Uses the below table for the type values.

Code	Type	Value
0x00	None	There is no second operand for this operation.
0x01	Variable	Stored as a variable, with <code>operand 2</code> as the identifier.
0x10	Literal	Stored as a literal, with <code>operand 2</code> as the identifier.
0x11	Small Literal	Value is <code>operand 2</code> as a sign-extended integer.

#### operand 2

Identifier or value for the second operand. See `op2 type`