

Primer



This document is disigned to help progammers learn the basics of Bill.

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### **Bill Primer**

### 1.1 Beginning

Hello World

"Hello World" is traditionally the first program one writes in a new language.

hello.bill

Of course, the first few lines are unnecessary. However, declaring a main function is required. Details, on that, in the next shapter (Functions).

Next: Types

2 Bill Primer

## **Conditionals**

Conditionals

If...

4 Conditionals

## **Containers**

#### Containers

Containers can hold multiple values.

6 Containers

# **Exceptions**

Exceptions

oops!

8 Exceptions

# **Expressions**

Expressions

Express!

10 Expressions

### **Functions**

#### **Functions**

Encapsulating repeatable steps, is how we make programming easier.

#### hello.bill

The funcion definition line should look familliar. The "fun" reserved word declares a function.

After the ":" is the function return type. However, in this case "no\_value" indicates there is ho return of any kind.

A common practice of statically typed languages is to declare the type "void," which is similar.

### 6.1 Declaring a Function

etc...

12 Functions

# **Strings**

Strings

\$\$\$

14 Strings

# Style

Style

STYLE!

16 Style

# **Types**

### Types

Every form of data is a type. By extension, the same is true for functions.

Types