

# BLAST: Hands-On Workshop

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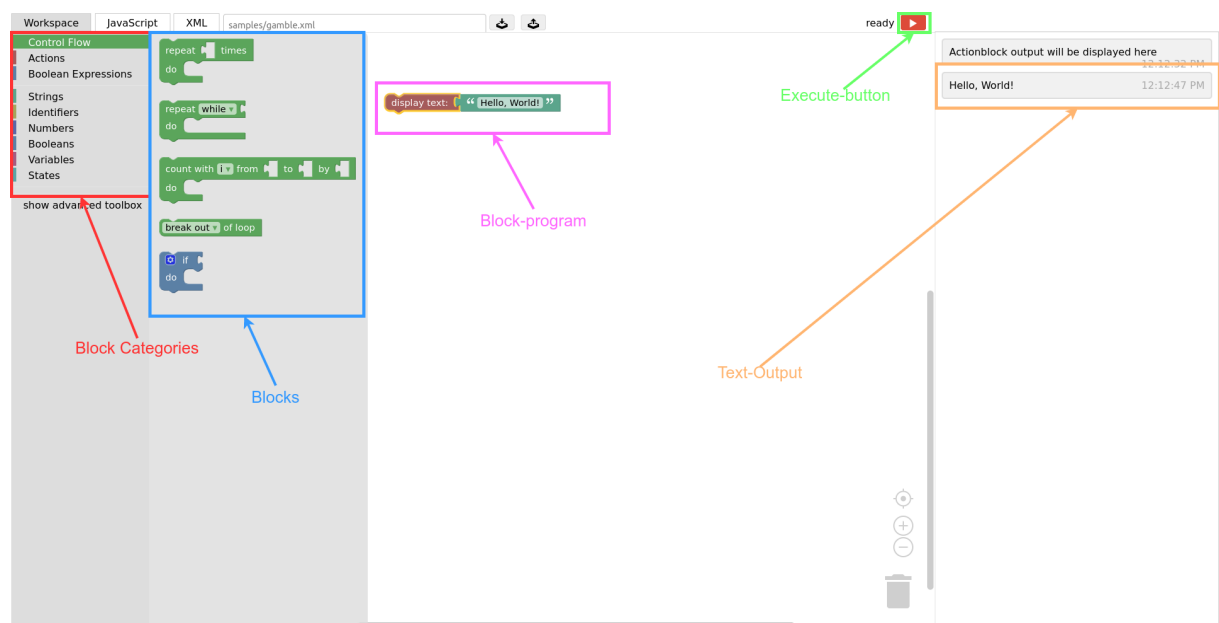
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## 1 Prerequisites

Open BLAST (<https://paul.ti.rw.fau.de/blast/>) with your favorite Browser.

BLAST is a visual programming environment used to create IoT-Applications by arranging blocks.



## 2 Introductory exercises

Solve the following exercises using the blocks provided by BLAST.

### 2.1 Hello World!

Create and execute a block-program displaying the message “Hello, world!”.

Hint: You need the **display text** block to display messages and a **string** block to define a text.

## 2.2 Variables

Create and execute a block-program, that successively displays the messages “Hello, 1”, “Hello, 2” and “Hello, 3”. Use a variable for the number.

Hint: Use arithmetic operations from the **Numbers** category to increment the variable.

## 2.3 Loops

Extent the program of [2.2](#), but display messages for the numbers 1 to 10 and use only 1 **display text** block by adding a block from the **Control Flow** category.

## 2.4 If clauses

Skip each even number in the output of [2.3](#) by using an **if** block.

Hint: The [modulo operation](#)(%) can be used to determine even numbers.