# Applying Functions

Referenced from lesson [Contracts](https://www.bootstrapworld.org/materials/spring2021/en-us/courses/data-science/lessons/contracts/index.shtml) (Spring, 2021)

Type this line of code into the interactions area and hit "Enter":

triangle​(​50, "solid", "red"​)

| 1 | What is the name of this function? |  |
| --- | --- | --- |
| 2 | What did the expression evaluate to? |  |
| 3 | How many arguments does the triangle expect? |  |
| 4 | What data type does the triangle function produce?  (Numbers? Strings? Booleans?) |  |

## **Catching Bugs**

The following lines of code are all BUGGY! Read the code and the error messages to identify the mistake.

5 triangle(20, "solid" "red")

Pyret didn’t understand your program around

triangle(20, "solid" **"red"**)

Can you spot the mistake?

6 triangle(20, "solid")

This application expression errored:

**triangle**(*20*, *"solid"*)

*2 arguments* were passed to the **operator**. The **operator** evaluates to a function accepting 3 parameters. An application expression expects the number of parameters and *arguments* to be the same.

Can you spot the mistake?

7 triangle(20, 10, "solid", "red")

This application expression errored:

**triangle**(20, 10, "solid", *"red"*)`

*4 arguments* were passed to the **operator**. The **operator** evaluated a function accepting 3 parameters. An application expression expects the number of parameters and *arguments* to be the same.

Can you spot the mistake?

8 triangle (20, "solid", "red")

Pyret thinks this code is probably a function call:

**triangle** *(20, "solid", "red")*

Function calls must not have space between the **function expression** and the *arguments*.

Can you spot the mistake?

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