Common errors and how to fix them

1. **No closing bracket for this open bracket**
   1. This error occurs when you are missing a closing bracket.

*Ask turtles*

*[*

*if size < 3*

*[*

*set size size + 1*

*]*

* 1. To fix, click each bracket and its pair will be highlighted. If no other bracket is highlighted, you know where the missing one is

*Ask turtles*

*[*

*if size < 3*

*[*

*set size size + 1*

*]*

*]*

1. **Expected command**
   1. This error occurs when you have one too many brackets.

Ask turtles

[

if size < 3

[

set size size + 1

]

]

]

* 1. Error will either state which line the extra bracket is on or will highlight the line. Just delete the extra bracket

Ask turtles

[

if size < 3

[

set size size + 1

]

]

1. **Nothing names [name] has been defined**
   1. A button will turn red if it doesn’t have a matching procedure defined in the code tab. Another example of code being thrown is due to the term not being defined as a global or breed attribute.

To seutp

Clear-all

End

To go

Ask turtles [ if stress-level > 100 [ rest ] ]

Tick

end

* 1. Making sure the spelling is correct or that the term is defined correctly at the top of the code will fix error.

To setup

Clear-all

End

Turtles-own [ stress-level ]

…

To go

Ask turtles [ if stress-level > 100 [ rest ] ]

Tick

End

1. **END expected**
   1. Occurs when we forget to add “end” to the end of a procedure.

To go

Ask turtles [ forward 1 ]

* 1. Netlogo will either state which line the “end” is missing from, or will highlight the line of code.

To go

Ask turtles [ forward 1 ]

end

1. **OF expected this input to be a reporter block, but got a number instead.**
   1. Occurs when a reporter preceding the “of” primitive is not enclosed in brackets ([ ]).

Ask turtles

[

If mean size of turtles > size

[

Set size size + 1

]

]

* 1. To fix, make sure the preceding reporter is in brackets

Ask turtles

[

If mean [ size ] of turtles > size

[

Set size size + 1

]

]

1. **WITH expected this input to be a TRUE/FALSE block, but got a number instead**
   1. Occurs when you forget to add brackets around the true/false statement that follows the “with” primitive.

Ask turtles with size > 1

[

Forward 1

]

* 1. To fix this error, add brackets around the proceeding reporter.

Ask turtles with [size > 1 ]

[

Forward 1

]

1. **ASK expected this input to be an agent or agentset, but got NOBODY instead.**
   1. Occurs when trying to access an agent that does not exist. Agent may have died or never existed in the first place.

To setup

Clear-all

Create-turtles

[

Set color one-of [ red blue ]

]

Ask turtles with [color = green ]

[

Forward 1

]

End

* 1. There are 2 hypothetical fixes for this error. Either make some of the turtles green or change our “ask” statement and use either “red” or “blue” in the conditional

To setup

Clear-all

Create turtles

[

Set color one-of [ red blue green ]

]

Ask turtles with [color = green ]

[

Forward 1

]

End

To setup

Clear-all

Create turtles

[

Set color one-of [ red blue green ]

]

Ask turtles with [ color = red ]

[

Forward 1

]

1. **… expected this input to be an … here, but got a ….instead.**
   1. Generic error that means there is a syntax error such as giving a primitive the wrong type of input.

Ask turtles

[

Face neighbors

]

* 1. Since in this context “neighbors” has multiple agents, so the “one-of” primitive needs to be used.

Ask turtles

[

Face one-of neighbors

]

1. **You can’t use … in a turtle context, because … is observer only.**
   1. Occurs when trying to use a primitive in a context it is not meant for (i.e., patch-specific, turtle-specific, observer-specific)

Ask patches

[

Create-turtles 1

]

* 1. “create-turtles” is an observer-specific primitive. Is you want to ask patches, the “sprout” primitive is similar to “create-turtles”

Ask patches

[

Sprout 1

]

* 1. This error applies to other agent types also. Some examples are:
     1. You can’t use SETXY in a patch context, because SETXY is turtle only.
     2. You can’t use DIE in a patch context, because DIE is turtle/link only.
     3. You can’t use CREAT-TURTLES in a turtle context, because CREATE-TURTLES is observer only.

1. **Keyword expected**
   1. Occurs when code is not contained within a procedure. In the “CODE” tab, all code must be writing with in a procedure, except for defining global, breed, turtle, or patch variables.

Globals [ stress-level ]

Clear-all

Ask turtles

[

Set stress-level 0

]

* 1. To fix, enclose the code within a procedure, beginning with “to” and ending with “end”

Globals [ stress-level ]

To setup

Clear-all

Ask turtles

[

Set stress-level 0

]

end