

the zoidberg engine

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Al Script Bytecode

All scripts are parsed into bytecode by the Maker program. The All is broken down into events that would trigger a subroutine of bytecode execution.

Al Events

The following events will trigger a block AI script bytecode to be executed:

- Villain sees a hero
- Villain is shot at by hero
- Villain sees another Villain
- etc.
- Idle none of the above

For all events, the subsequent bytecode has access to several variables:

- Nearest Hero's
 - position
 - velocity
 - acceleration
 - score
 - health
 - lives
 - etc.

Operations

- Look in direction
- Move in direction
- Jump in direction
- Shoot in direction
- Run in directionWait for time
- etc.

Bytecode layout

The bytecode is a one-byte string where the first 8 bits is the operation (allowing for up to 255 different operations), then the following 8 + 16 bits will specify arguments to that operation.

In the ZEG file, the event code blocks will be separated with identifier bytes that tell the engine that a new section is beginning. These blocks will be structured like the following:

11111111[Event#]

The first 8 bits correspond to Op 255 which is reserved for an event block designation. The following 8 bits indicate which event the following code block corresponds to.

See Also

ZEG datafile

Cine Script Bytecode

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