

Loops

Repeat without copy-pasti

- WHY LOOPS? — Without loops, you'd have to write the same line 100 times to do something 100 times. Loops let you write it ONCE and tell the computer how often to repeat.
- REPEAT — repeats a fixed number of times. 'Repeat 5: jump'. The computer jumps 5 times.
- FOR — 'for each thing in a list, do something'. e.g. 'for each name in class, print hello'.
- WHILE — keeps going as long as a condition is true. 'While health > 0: keep playing'.
- INFINITE LOOP — when a loop never ends. Usually a BUG. Make sure your while-loop has something that eventually changes.
- NESTED LOOP — a loop inside a loop. Useful for grids: 'for each row, for each column, draw a square'.
- BREAK — exits a loop early when something happens.
- CONTINUE — skips this iteration but keeps going.

