

**if** — if (exp) ... else ...

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## Description

`if` evaluates the expression, and if it is true (evaluates to a nonzero number), `if` executes the statement or statement block that immediately follows it; otherwise, `if` skips the statement or block.

`if ... else` evaluates the expression, and if it is true (evaluates to a nonzero number), `if` executes the statement or statement block that immediately follows it and skips the statement or statement block following the `else`; otherwise, it skips the statement or statement block immediately following it and executes the statement or statement block following the `else`.

## Syntax

```
if (exp) stmt1
```

```
if (exp) stmt1
else stmt2
```

```
if (exp) {
    stmts1
}
else {
    stmts2
}
```

```
if (exp1) ...
else if (exp2) ...
else if (exp3) ...
...
else ...
```

where `exp`, `exp1`, `exp2`, `exp3`, ... must evaluate to real scalars.

## Remarks and examples

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`if` followed by multiple `elses` is interpreted as being nested, that is,

```
if (exp1) ...
else if (exp2) ...
else if (exp3) ...
...
else ...
```

is equivalent to

```
if (exp1) ...
else {
  if (exp2) ...
  else {
    if (exp3) ...
    else {
      ...
    }
  }
}
```

### Also see

[\[M-2\] intro](#) — Language definition