

MATLAB `if` Statements

Decision Structures

- Program: a sequence of instructions
- *Repetition structure*: allows a code segment to be repeated
 - `for`
 - `while`
- *Decision structure*: allows the computer to decide between different courses of action
 - `if/elseif/else`
 - Logical operators
 - `switch`

if Statements

- General syntax:

```
if expr1
    statements1
elseif expr2
    statements2
else
    statements3
end
```

- If `expr1` is true, `statements1` is executed
- If `expr1` is false and `expr2` is true, `statements2` is executed
- If both `expr1` and `expr2` are false, `statements3` is executed