

Conditional Logic - switch

- A 'switch' statement is an elegant solution to a complex, repetitive if-else-if-else statement.
- The general syntax is: switch(variableToExamine){ case compile_time_constant: code; break; default: code; break;



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- The types you can *switch* on are as follows:
 - byte, char, short, int
 - Byte, Character, Short, Integer
 - String
 - enum's
 - var (if it resolves to one of the above)
- You cannot switch on a *boolean*, *long*, *float* or *double* variable (or their wrappers).
- The *case* labels must be compile-time constants of the same type as the *switch* variable.



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- The *case* labels must be in range e.g. if you *switch* on a *byte*, don't have a *case* label of 200.
- The *case* labels must be unique i.e. duplicate *case* labels not allowed.
- *default* can be placed anywhere; regardless of it's position, it is <u>only</u> executed if there is <u>no</u> matching *case*!
- Implicit casting can be performed between the *case* label and the *switch* variable type.

