

Flowchart

According to LucidChart's definition,

"flowchart is a diagram" wherein it shows or describes the "process, system or computer algorithm" that is commonly used in many fields for documentation, studying, planning, improving and communicating "often complex process" that is organized and recognizable diagrams

Flowcharts uses "rectangles, ovals, diamonds and potentially numerous other shapes" that has a specific type of step for each shape that is paired with arrows to state the series. It could be simple, "hand-drawn charts" or "comprehensive computer-drawn diagrams" that shows various "steps and routes". Is commonly used technically or non-technically by people in different

Is also as "Process Flowchart, Process Map, Functional Flowchart, Business Process Mapping, Business Process Modeling and Notation (BPMN), or Process Flow Diagram (PFD)" that is "related to other popular diagrams, such as Data Flow Diagrams (DFDs) and Unified Modeling Language (UML) Activity Diagrams"

Listed below are some of the examples of the shapes used in flowcharts

Terminal/Terminator



Terminator

Process



Process

Decision



Decision

Document



Data, or Input/Output



Stored Data



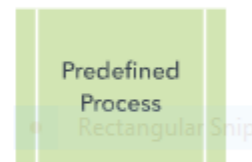
Flow Arrow



Comment or Annotation



Predefined process



On-page
connector/reference



Predefined process



On-page
connector/reference



Off-page
connector/reference



- LucidChart. (n.d). What is a Flowchart. Retrieve from <https://www.lucidchart.com/pages/what-is-a-flowchart-tutorial>

Pseudocode

According to WhatIs.com (2005),

Pseudocode is pronounced as "SOO-doh-kohd". It indicates the description that a computer program or algorithm must perform. Also, it is "expressed in a formally-styled natural language rather than in a programming language" and is also used for more detailed step of program development in which it allows programmers to express their design in more detailed version/ template that could be used "for the next step of writing code in a specific programming language". As it is recognizable and detailed it helps the programmers to be able to verify the programming information in terms of matching the specific designs wherein errors could be easily tracked therefore minimizing the cost and time. As it is recognized, it will be rewritten by the usage of vocabulary and "syntax of a

programming language". It can also be used "conjunction with computer-aided software engineering-based methodologies".

It is possible to write programs that will convert a given pseudocode language into a given programming language.

- WhatIs.com. (2005). What is pseudocode? - Definition from WhatIs.com. Retrieved from <https://whatIs.techtarget.com/definition/pseudocode>
Listed below are the examples given by Pseudocode Examples

1. If student's grade is greater than or equal to 60

```
    Print "passed"
else
    Print "failed"
```

2. Set total to zero

Set grade counter to one

While grade counter is less than or equal to ten

```
    Input the next grade
    Add the grade into the total
```

Set the class average to the total divided by ten

Print the class average.

3. Initialize total to zero

Initialize counter to zero

Input the first grade

while the user has not as yet entered the sentinel

add this grade into the running total
add one to the grade counter
input the next grade (possibly the sentinel)

if the counter is not equal to zero

set the average to the total divided by the counter
print the average

else

print 'no grades were entered'

4. Initialize passes to zero

initialize failures to zero

initialize student to one

while student counter is less than or equal to ten

input the next exam result
if the student passed
add one to passes

else

add one to failures

add one to student counter

print the number of passes

print the number of failures

if eight or more students passed

print "raise tuition"

"For looping and selection, The keywords that are to be used include Do While...EndDo; Do Until...Enddo; Case...EndCase; If...Endif; Call ... with (parameters); Call; Return; Return; When; Always use scope terminators for loops and iteration.

As verbs, use the words Generate, Compute, Process, etc. Words such as set, reset, increment, compute, calculate, add, sum, multiply, ... print, display, input, output, edit, test , etc. with careful indentation tend to foster desirable pseudocode.

Do not include data declarations in your pseudocode".

- n.a. (n.d). Pseudocode Examples. Retrieved from <https://www.unf.edu/~broggio/cop2221/2221pseu.htm>