

HOME (/)

TUTORIALS (/TUTORIALS/) / FLOWCHART TUTORIAL (WITH SYMBOLS, GUIDE AND EXAMPLES)

Flowchart Tutorial (with Symbols, Guide and **Examples**)

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What is a Flowchart?

Flowchart Symbols

Terminator

Document

Decision

Data

On-Page Reference

Off-Page Reference

Delay or Bottleneck

<u>Flow</u>

When to Draw Flowchart?

Flowchart examples

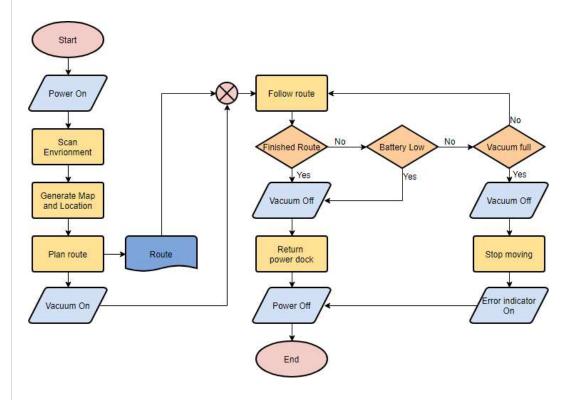
<u>Flowchart Example –</u> **Medical Service**

Flowchart Example -Simple Algorithms

<u>Flowchart Example – </u> Calculate Profit and Loss

Creating a Flowchart in Visual Paradigm

A flowchart is simply a graphical representation of steps. It shows steps in sequential order and is widely used in presenting the flow of algorithms, workflow or processes. Typically, a flowchart shows the steps as boxes of various kinds, and their order by connecting them with arrows.



What is a Flowchart?

A flowchart is a graphical representations of steps. It was originated from computer science as a tool for representing algorithms and programming logic but had extended to use in all other kinds of processes. Nowadays, flowcharts play an extremely important role in displaying information and assisting reasoning. They help us visualize complex processes, or make explicit the structure of problems and tasks. A flowchart can also be used to define a process or project to be implemented.

Flowchart Symbols

Different flowchart shapes have different conventional meanings. The meanings of some of the more common shapes are as follows:

Terminator

The terminator symbol represents the starting or ending point of the system.



Process

A box indicates some particular operation.



Document

This represents a printout, such as a document or a report.



Decision

A diamond represents a decision or branching point. Lines coming out from the diamond indicates different possible situations, leading to different sub-processes.



Data

It represents information entering or leaving the system. An input might be an order from a customer. Output can be a product to be delivered.



On-Page Reference

This symbol would contain a letter inside. It indicates that the flow continues on a matching symbol containing the same letter somewhere else on the same page.



Off-Page Reference

This symbol would contain a letter inside. It indicates that the flow continues on a matching symbol containing the same letter somewhere else on a different page.



Delay or Bottleneck

Identifies a delay or a bottleneck.



Flow

Lines represent the flow of the sequence and direction of a process.

When to Draw Flowchart?

Using a flowchart has a variety of benefits:

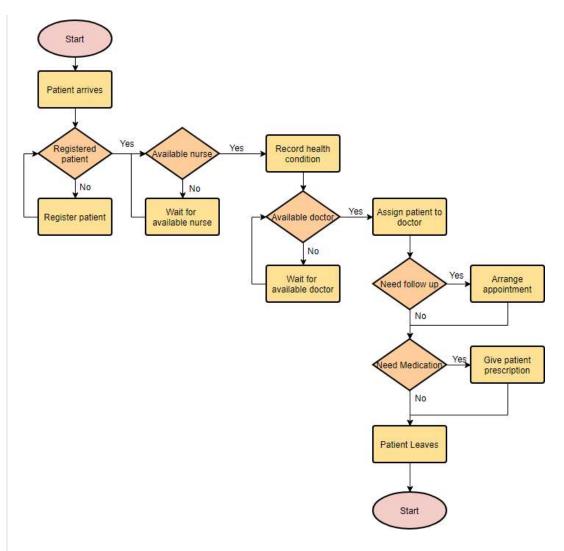
- It helps to clarify complex processes.
- It identifies steps that do not add value to the internal or external customer, including delays; needless storage and transportation; unnecessary work, duplication, and added expense; breakdowns in communication.
- It helps team members gain a shared understanding of the process and use this knowledge to collect data, identify problems, focus discussions, and identify resources.
- It serves as a basis for designing new processes.

Flowchart examples

Here are several flowchart examples. See how you can apply a flowchart practically.

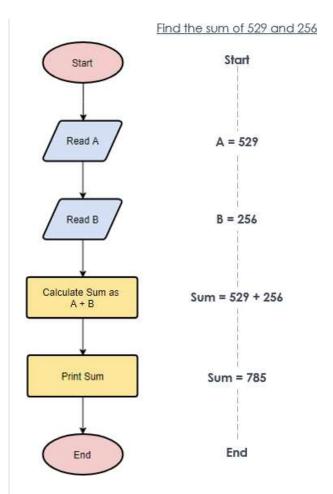
Flowchart Example - Medical Service

This is a hospital flowchart example that shows how clinical cases shall be processed. This flowchart uses decision shapes intensively in representing alternative flows.



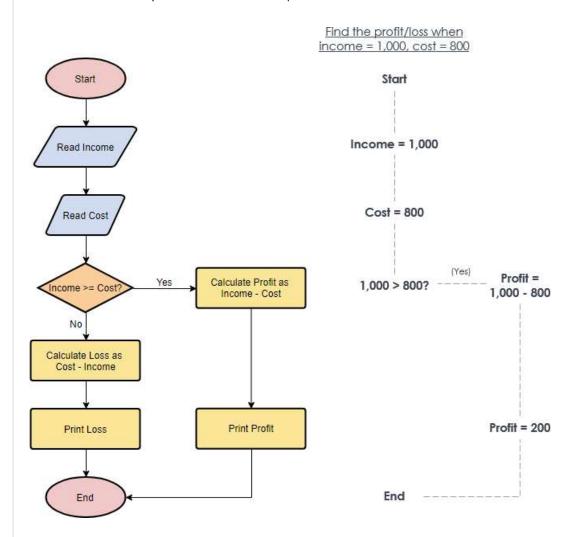
Flowchart Example – Simple Algorithms

A flowchart can also be used in visualizing algorithms, regardless of its complexity. Here is an example that shows how flowchart can be used in showing a simple summation process.



Flowchart Example – Calculate Profit and Loss

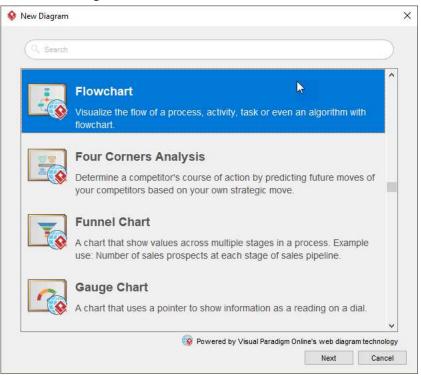
The flowchart example below shows how profit and loss can be calculated.



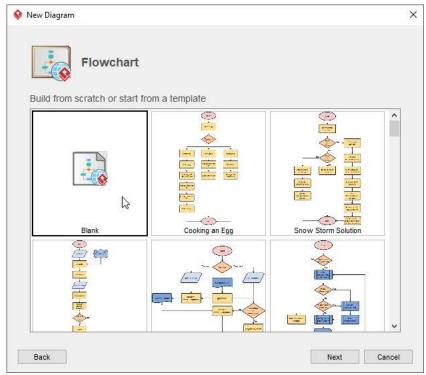
Creating a Flowchart in Visual Paradigm

Let's see how to draw a flowchart in Visual Paradigm. We will use a very simple flowchart example here. You may expand the example when finished this tutorial.

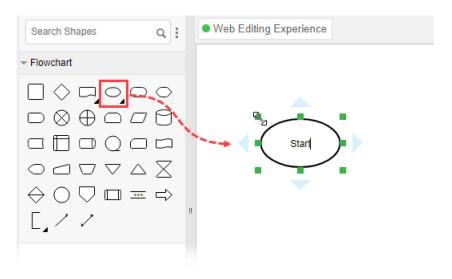
- 1. Select **Diagram > New** from the main menu.
- 2. In the New Diagram window, select Flowchart and click Next.



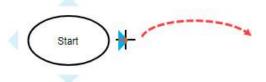
3. You can start from an empty diagram or start from a flowchart template or flowchart example provided. Let's start from a blank diagram. Select **Blank** and click **Next**.



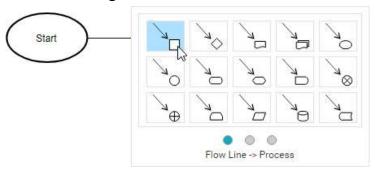
- 4. Enter the name of the flowchart and click **OK**.
- 5. Let's start by creating a Start symbol. Drag the **Start** shape from the diagram toolbar and drop it onto the diagram. Name it *Start*.



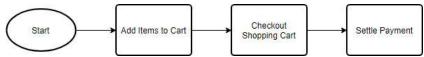
6. Create the next shape. Move your mouse pointer over the start shape. Press on the triangular handler on the right and drag it out.



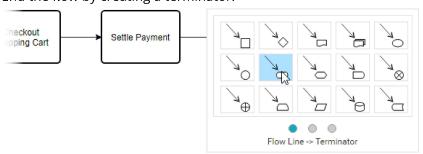
7. Release the mouse button. Select **Flow Line > Process** from the **Resource Catalog**.



- 8. Enter *Add items to Cart* as the name of the process.
- 9. Follow the same steps to create two more processes *Checkout Shopping Cart* and *Settle Payment*.



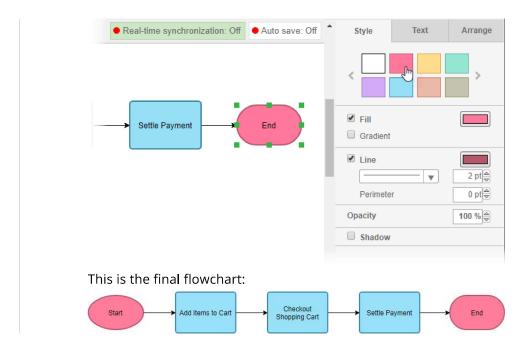
10. End the flow by creating a terminator.



Your diagram should look like this:



11. Color the shapes. Select **Diagram > Format Panel** from the main menu. Select a shape on the diagram and click update its color through the **Style** setting in the **Format Panel**.



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