How to Animate a BPMN Business Process?
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**Business process analysis** is a study on existing business processes of specific business units or groups. During the process, business process models are developed to produce detailed pictures, illustrating the process activities, process flows and their interrelationships. Through these models, stakeholders, business analysts, the operations department and IT department review the current workflow, iron out the requirements and figure out how to improve the process(es).

In those discussions, effective presentation is important for building consensus and establishing understanding among different parties. In this tutorial, we are going to see how to conduct a compelling presentation using the animation tool.

**Business Process Presentation - The Problem**
To present a business process model, some people like to play a slideshow on projector and explain it with the help of a laser pen. Others may like to open up diagrams directly in Visual Paradigm and walk (scroll) through the diagram manually with the mouse pointer. Either way, it comes with a bit of rigidity.

Whether you are reading a business process diagram in Visual Paradigm, slideshow, handout or from projector, you are actually studying something dynamic from static image. The process is not running in the image itself, but in your brain. For this reason, it can be limited to how much you can learn from these static representation of workflows. Moreover, you may easily miss out possible process flows for complex processes or processes that involve many conditional flows.

**Preview this Tutorial on YouTube**
To help you to complete this tutorial, we recommend you to watch the video below. The video highlights the steps and primary concepts of this tutorial. By watching the video, you should be able to complete this tutorial much easier.

[Animating a Business Process Diagram](https://www.visual-paradigm.com/tutorials/animatingbusinessprocess.jsp)
**Animating Your Business Process Design**

Process animation breaks down the presentation barrier encountered in studying process flow with static images. It analyzes process flows and converts process design into an animation, which can be viewed in motion by the audience. With this, process animation helps to lower the risk in business process improvement, improve the chance of getting the processes right at the first attempt and brings better decision-making in re-engineering and resource planning.

Next we'll take a look at an example in Visual Paradigm.

**Creating and Playing an Animation**

The animation tool is a diagram-based tool. You can setup multiple animations in a business process diagram to play different scenarios modeled in a business process diagram. The first thing you need to do is add an animation. After that, adjust the flow by resolving how process flows through the gateway. Then, you can play the animation.

In this section, we will try with a simple process that involves no gateway. After you gain some ideas about how to operate process animation, we will try with other sample processes that involve different kinds of gateways.

1. Download [BPMN Case Studies.vpp](https://www.visual-paradigm.com/tutorials/animatingbusinessprocess.jsp). You can also find this file at the bottom of this tutorial.

2. Open the downloaded .vpp file in Visual Paradigm. To open a project, select **Project > Open** from the application toolbar.

3. Open the diagram **Case 1 - Program Admission**.

4. At the bottom of the diagram, you can see the **Animation Panel** opened. If it is not there yet, open it manually by selecting **Modeling > Animation** from the application toolbar.

5. Click **Add Animation** (graphically, a plus sign) at the top of the **Animation Panel**.

6. Give a meaningful name to the animation based on the flow you want to animate. In this case, enter **Form submission** for name and press **Enter** to confirm editing.
7. The path of the animation is determined automatically by evaluating the flow modeled in the diagram. Shapes that form the path are shown in the **Animation Panel** as icons. If you click on any of them, it will jump right to the corresponding model element in the diagram.

8. Let's play the animation. Click the **Play** button.

9. Look at the diagram to see the animation. Shapes have been passed are highlighted in purple by default. And whenever the animation is progressing through a sequence or message flow, a dark ball would appear and move along the line to guide your eye.

The buttons in the Animation panel allow you to control the animation such as pausing/stopping and moving the animation a step backward or forward.

**More about Gateways**

**BPMN** gateway is used to control how a process flows. It could come with multiple incoming and outgoing flows. There are several kinds of gateways with different flow behaviors. When you add an animation for a process that involves gateway, you need to select the outgoing flows for gateway(s) in order to complete the path.

1. Open the diagram **Case 2 - Order Processing** and study the process.

2. Click **Add Animation** at the top of the **Animation Panel**.

3. Name the animation **Order rejected**.
4. When you press Enter, part of the path is determined. It stops at the Accept Order? Gateway because you need to decide which outgoing flow to take. In this case, we want to animate the flow for order rejection. Therefore, select No in the Animation Panel.

5. If you look at the diagram, you will see the created path and some greyed-out shapes (as they are not part of the path).

6. Play and see the animation.

7. Let's add another animation. Click Add Animation again. Name the animation Order accepted.

8. This time, choose Yes when you are at the Accept Order? gateway.
9. The flow is created and highlighted in the diagram.

10. Play and see the animation.

11. Let's also try with a process that involves inclusive gateway. Open the diagram *Case 3 - Bank* and study the process.

12. Add an animation and name it *Deposit and transfer*.

13. Inclusive gateway can be used to create alternative paths as well as parallel paths. All combinations of outgoing paths may be taken. That's why you are allowed to select multiple outgoing flows here. Select the flows for *Process Deposit* and *Process Transfer*.
14. Click the **Confirm** button to confirm your selection. The path is now completed.

![Diagram of BPMN process](image)

15. Play and see the animation.

**Exporting Animation to Web Contents**

When you need to present your business process in a place that does not have Visual Paradigm installed, you can present it in a web browser. In this section, we will export animations to web contents to do just that.

1. Right click next to the name of the animation and select **Export...** from the popup menu.

2. In the **Export Animation** window, enter a path for the .html file and click **OK**. The exported page is automatically opened in your default web browser.
3. Click the **Play** button at the bottom of the page. See the animation in the web browser.

**Visual Paradigm**

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**Visual Paradigm home page**
[(https://www.visual-paradigm.com/)]

**Visual Paradigm tutorials**
[(https://www.visual-paradigm.com/tutorials/)]

**Resources**
1. [BPMN Case Studies.vpp](#)
2. [Exported Web contents - exported-animation.zip](#)

**Related Links**
- [Visual Paradigm process simulation support](#)