

An e-book for inclusive learning

Step-by-step tutorial on how to use FPB tools

Co-funded by the Erasmus+ Programme of the European Union



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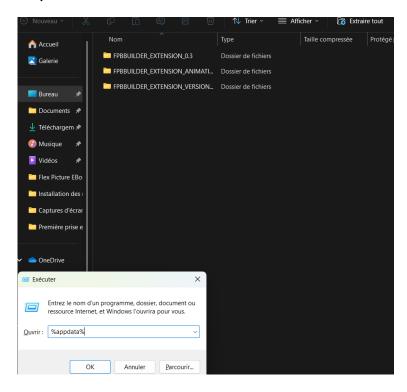






Installing FPB extensions - Download

Before you start using the tools in Illustrator, you need to install the FPB extensions in the Adobe suite. To do this, you need to download the <u>Illustrator</u> Plugins <u>ZIP file</u> and extract the files before following these steps:



- 1. Open the search window by pressing theWindows + R keys
- 2. Enter **%appdata%** in the search bar

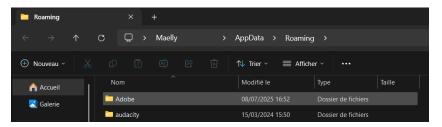
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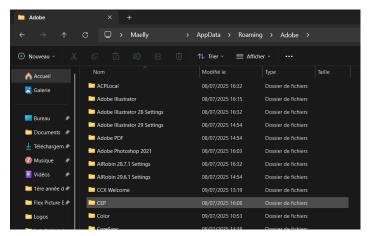




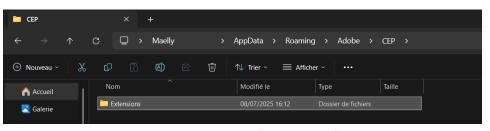
Installing FPB extensions - CEP folder



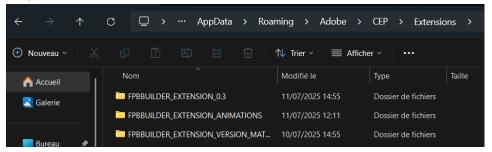
3. Open the **Adobe** folder



4. Open the **CEP** folder. If it does not exist, create it and then open it.



5. Open the **Extensions** folder. If it does not exist, create it and then open it.



6. Place the previously downloaded and extracted FPB folders in the **Extensions** folder.

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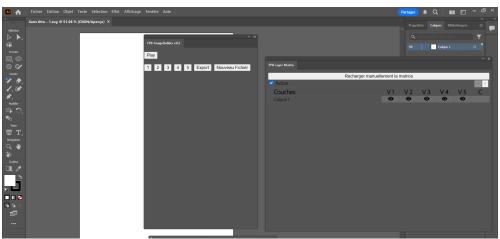


Installing FPB extensions - Opening in Illustrator

You can now open Illustrator. Close any documents that are already open, create a new 748x1024 pixel document in portrait mode, and add the new FPB-ImageBuilder vo.2 and FPB-Layer Matrix extensions to your artboard.



7. In the Window tab, click Extensions.
You will then see the three FPB extensions.
Enable only FPB-ImageBuilder and FPBLayer Matrix. The FPB-Animation
extension will be explained later.



8. The two extensions should appear as shown above.

If this is not the case, please refer to the **Bug** Fix section below.

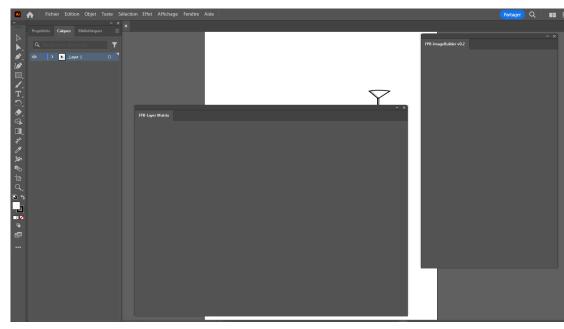






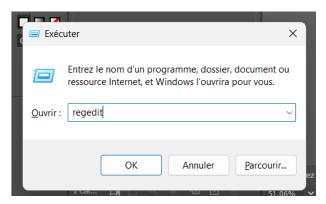
Extensions are not displaying, what should I do?

If your extensions are not displaying correctly, this is probably due to the version of Adobe Illustrator software you are using.



Example of incorrect extension display that you may encounter.

Here are the steps to follow to resolve the issue:

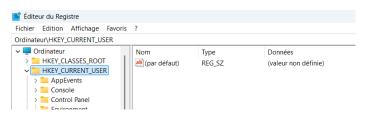


- Open the search window by pressing the Windows + R keys.
- 2. Enter **regedit** in the search bar
- 3. Allow the Registry Editor to make changes.

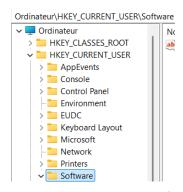








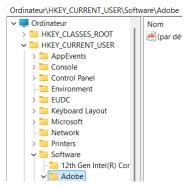
4. Open the **HKEY_CURRENT_USER** file



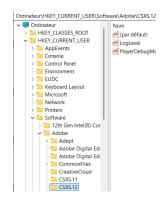
5. Open the **Software** file



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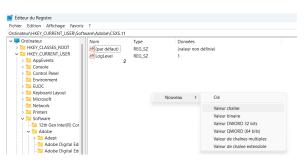
6. Open the **Adobe** file



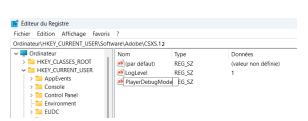
7. Open the CSXS.12 file (for version 29) or CSXS.11 file (for versions 27 and 28)







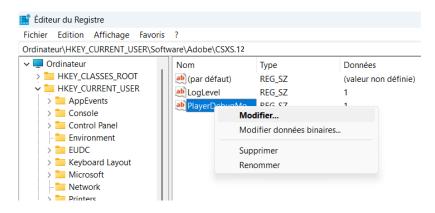
8. In the folder, right-click to create a new entry (New), then select String Value.



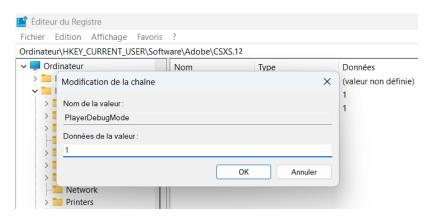
9. Enter PlayerDebugMode







10. Right-click on the file that has just been created and select **Edit**.



11. In the bar, enter the value 1.

You can now restart Illustrator and repeat the installation from step 7 (page 6).

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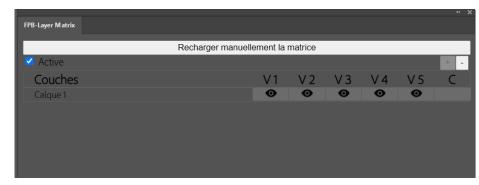




Getting familiar with FPB extensions

You now have access to two FPB extension windows.

The Matrix window

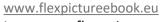


This extension allows you to select the layers and sub-layers you want to display or hide, depending on the degree of visual complexity.

The display window



This extension allows you to view the changes made in the Matrix window and the Animation window.





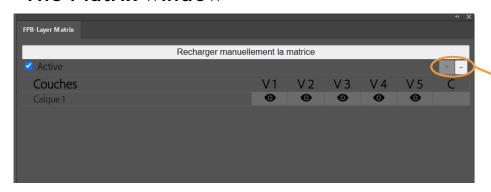




Getting familiar with FPB extensions

Furthermore, you are not required to use all five levels of visual complexity offered.

The Matrix window



You can remove and add them as needed using these icons.

It is not possible to go beyond five levels.



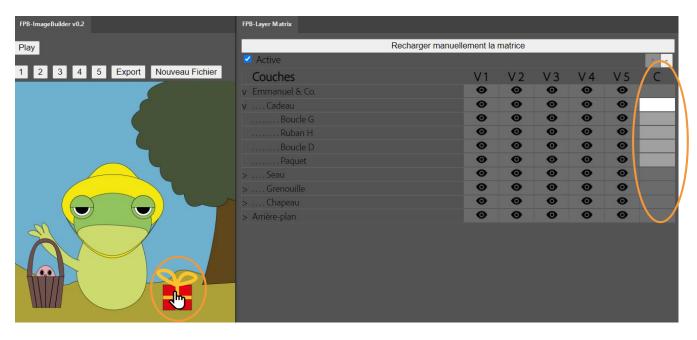






Getting familiar with FPB extensions

To the right of the visual complexity columns, you will find the C column. This allows you to select the layers and/or sub-layers that the reader will be able to click on in the final version of the Ebook in order to isolate and/or zoom in on them.









Best practices

To add a new page to edit with FPB tools, simply click on the **New File** tab in the ImageBuilder extension: the page will then automatically be in FPB format (748 x 1024 pixels).











Best practices

The two FPB plug-ins cannot be combined in the same window, as this may cause them to malfunction. Remember to keep them open separately, even if this takes up more space.



The ImageBuilder display window becomes greyed out and no longer responds to requests.

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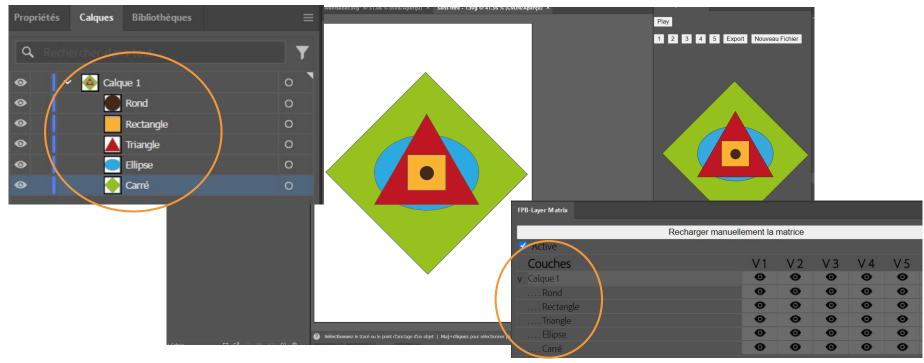




Best practices

It is essential that you **name your sub-layers.** This makes it easier to find your way around and to show/hide the right sub-layers according to the levels.

- 1. Think ahead about clickable elements: main sub-layers
- 2. Think ahead about the elements that will be hidden (shadows, patterns, etc.)



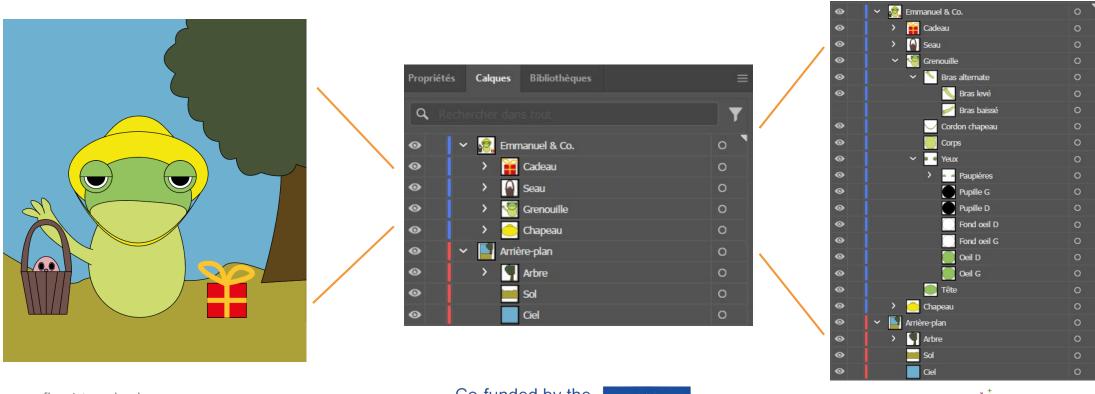
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Group layers or sub-layers in a logical manner (particularly details that will appear or disappear together). Individual sub-layers must be created for each element that will be animated, even if it visually belongs to a single entity (e.g. the frog's arms).



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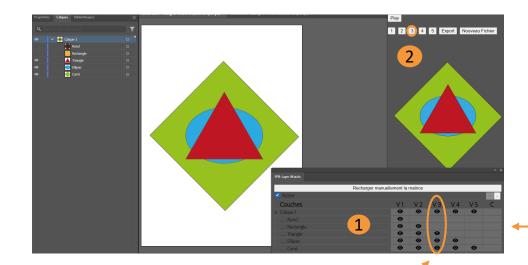






Simplified example of FPB

- 1 Hide the desired layers
- 2 Select the level you want to preview and press Play to see the results of your changes.



By clicking in column C that elements will automatically be clickable or not in the EPUB.

By masking using the tool, the layers will automatically be visible or not.

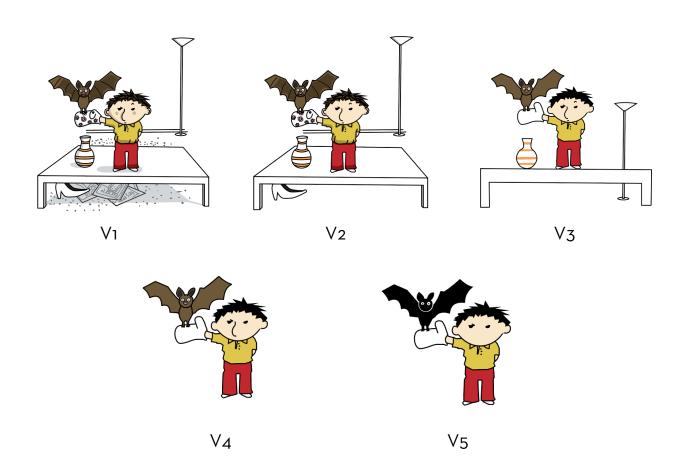
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Concrete example of GCD: Emile wants a bat



Couches	V1	V2	V3	V 4	V 5
v _Layer1	0	0	0	0	0
vLayer12	•	0	0	0	0
vLayer1	0	0	0	0	0
>bat high contrast					0
/ bat group	0	0	0	0	
Layer 11	0	0	0	0	
ears	0	0	0	0	
outline	0	0	0	0	
left wing 2	•	0	0	0	
left wing outline					
/detail	•	0			
lv 1 asddf					
dark shade					
/bat face	•	•	•	0	
/ mout	•	0			
tooth	•	•			
nose	•	•	0	0	
eyes	•	•	0	0	
> detail lv2	•	•			
/ mid shade	•	0			
dark 123					
shade lv 1					
/bat bg	•	0	0	0	
lv 2	•	0	•	0	
lv1					
/emil group	•	0	0	0	0
/hair	•	0	•	0	0
hair shade	•	0			
/Face	•	•	•	•	0
ear lines	0	0			

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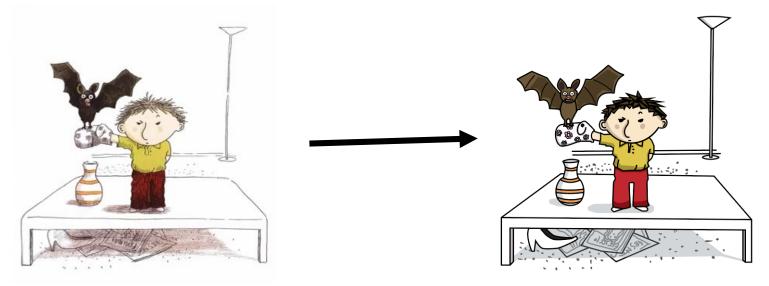






A quick reminder about adapting illustrations

The creation of your FPB begins with an original project or a book to be adapted. If the illustrations are not vector-based, they must be converted by redrawing the entire design. For the first level of visual complexity, the image is reproduced as faithfully as possible, but is still adapted with a few simplifications and reinforced



Converting a raster image to a vector image

For more information on adaptation, please refer to the <u>Practical Guide</u>.

contours.

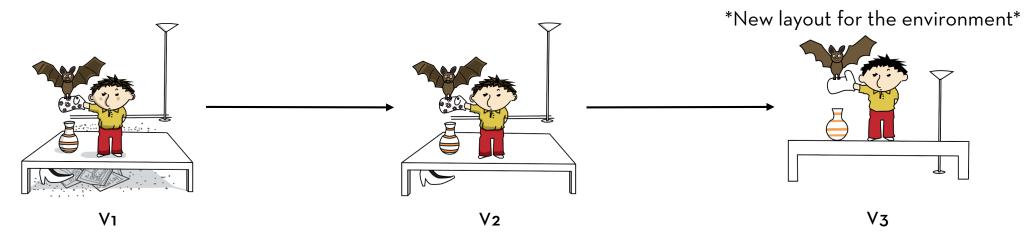






FPB example: *Emile wants a bat*

The aim of FPB is therefore to enable variations corresponding to five levels of visual complexity to be created for each illustration. The characteristics of these levels should be adapted according to the chosen title.



- Clean lines, rarely interrupted
- Simple background textures allowed
- Shadows are shapes
- Clear outlines

- Remove shadows
- Remove background textures
- Remove unnecessary objects
- Simple details are permitted

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- Remove perspective from the image
- Move background objects
- Remove details that add depth
- Some lines inside objects are allowed

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GCD example: Emile wants a bat





V

- Remove the environment
- Only the most important elements are retained
- Remove additional details

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- Maximise contrast (you can use this <u>website</u> to help you) - remove outlines where necessary
- Remove all details that are not necessary for identifying the object
- You can separate objects if necessary (e.g. the head and body of the bat)





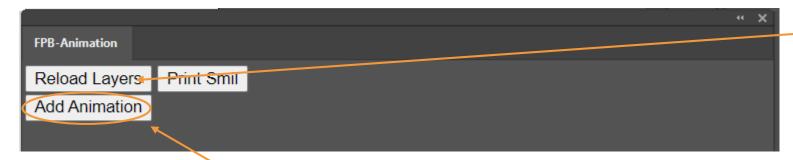




The FPB-Animation extension

To create animations, open the FPB-Animation extension:





Reload Layers will allow you to reset the layers in case of incorrect display.

Click on Add Animation to create an animation.





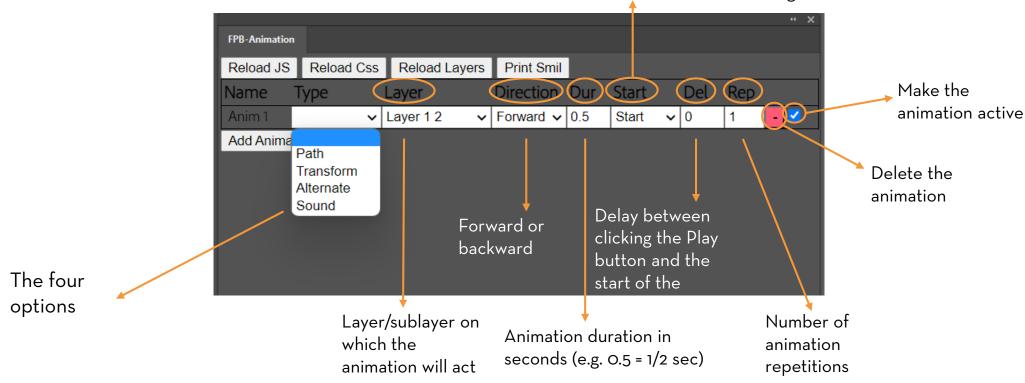




The FPB-Animation extension

When you add an animation, you can choose between four different options.

When the animation starts \rightarrow Start: as soon as the Play button is activated. Otherwise, before or after another existing animation.



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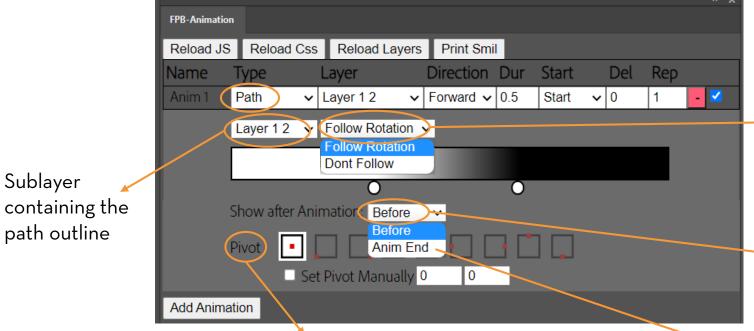




FPB-Animation: Path

The **Path** animation allows you to select an object and move it along a path that you have drawn using the Pen

tool.



The selected object rotates according to the path taken **or** not.

Before: the object returns to its initial position at the end of the animation

Or Anim End: the object remains where it has reached.

This command can be used on Path, Scale and Rotate animations. It allows you to select the point on the object from which the animation will act.

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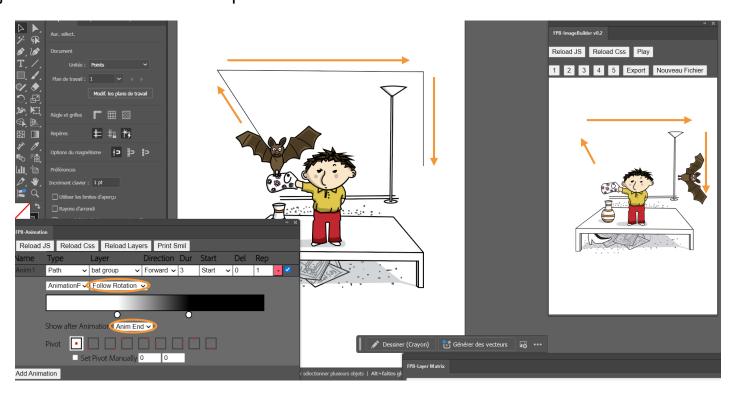




FPB-Animation: Path

Example of an object that remains in the position it has reached and whose rotation follows the curves of the

path.



Remember to make your path transparent once it is complete so that it does not appear in the final rendering.

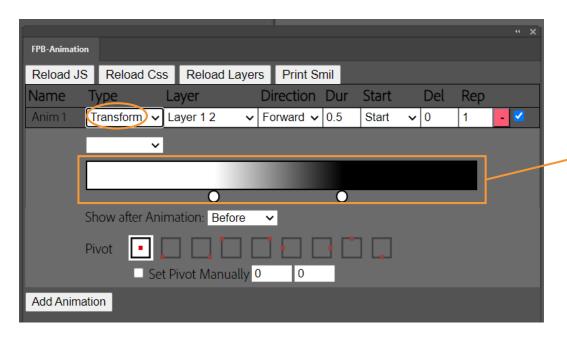
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FPB-Animation: Transform

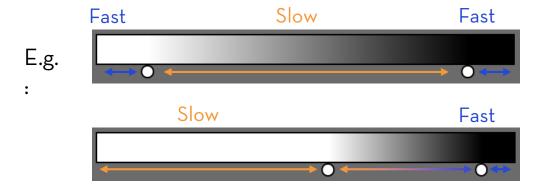


Transform

Move
Scale
Rotate
Opacity

You can choose between four different actions.

This scale allows you to adjust the pace of the animation: the more an area is stretched, the slower it is. Conversely, the more it is reduced, the faster it is.



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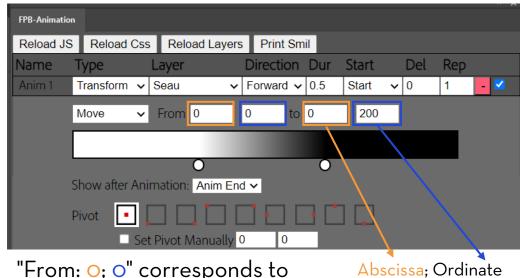




FPB-Animation: Transform - Move

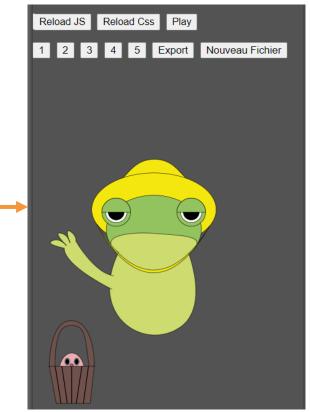
The Move action allows you to select an object (Layer) and move it from one point to another.

X; Y



"From: O; O" corresponds to the initial location of the selected element.







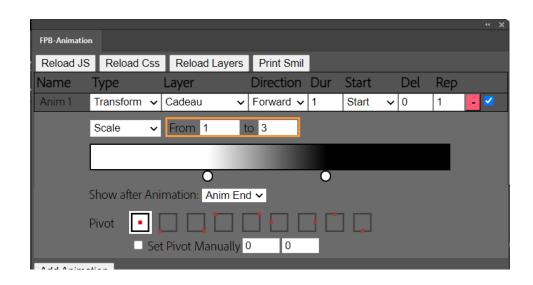


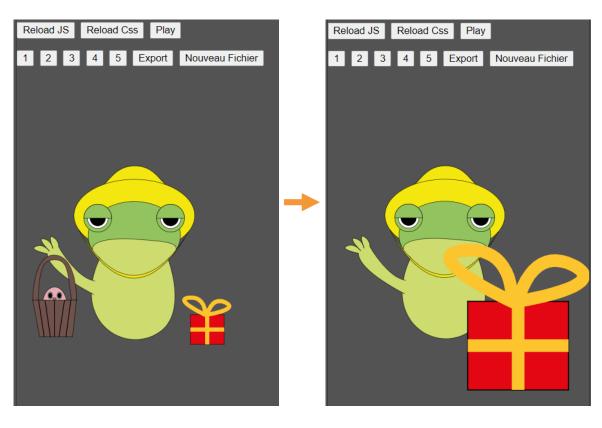




FPB-Animation: Transform - Scale

The **Scale** action allows you to select an object (Layer) and enlarge it.







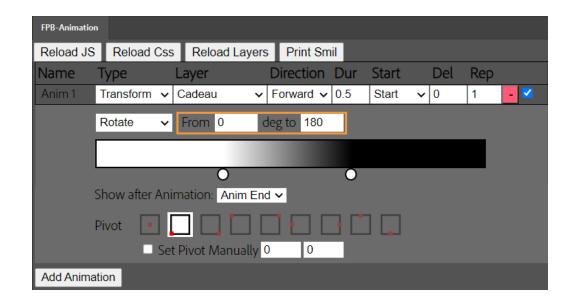


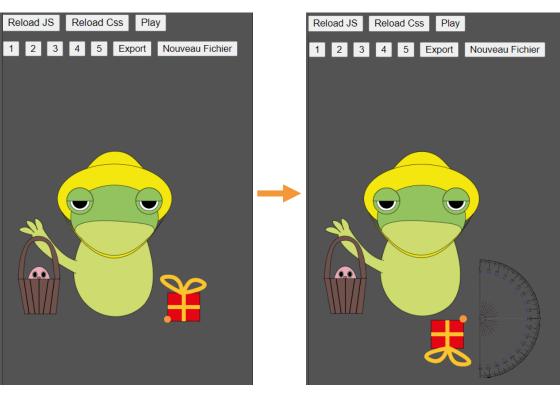




FPB-Animation: Transform - Rotate

The Rotate action allows you to select an object (Layer) and rotate it to the desired angle.







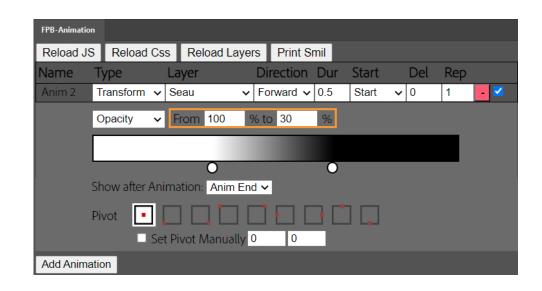


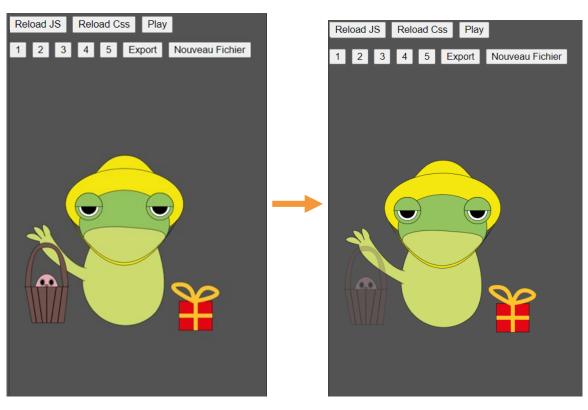




FPB-Animation: Transform - Opacity

The **Opacity** action allows you to select an object (Layer) and adjust its opacity. This allows you to make it appear or disappear as you wish.







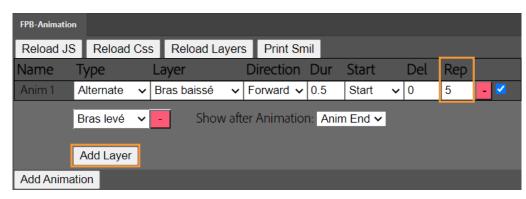






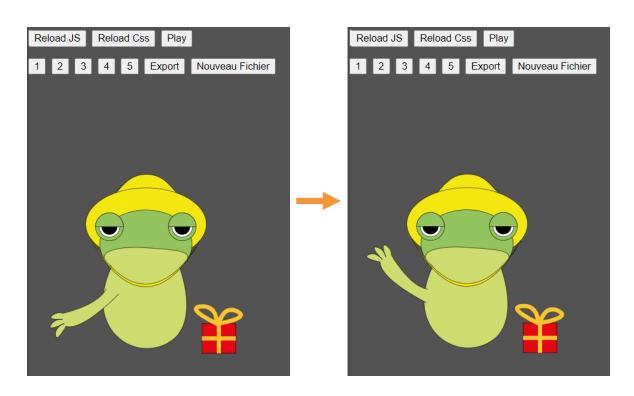
FPB Animation: Alternate

The **Alternate** animation allows you to select multiple objects that will alternate over a certain period of time with repetitions (or not).



In this example, we alternate between two layers, which gives the impression of movement in the frog's left arm.

It is possible to add more layers and juggle them all together.







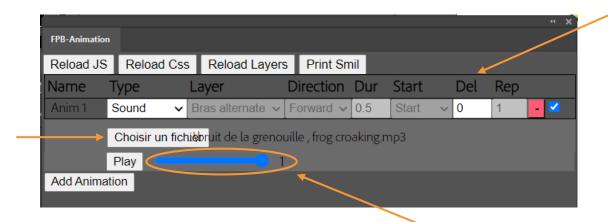




FPB-Animation: Sound

The **Sound** animation allows you to add sound effects or a soundtrack to your illustration. However, the settings are limited: the audio duration will be applied and can only be delayed using the Delay (in seconds) setting.

Import your audio file



Adjust the volume

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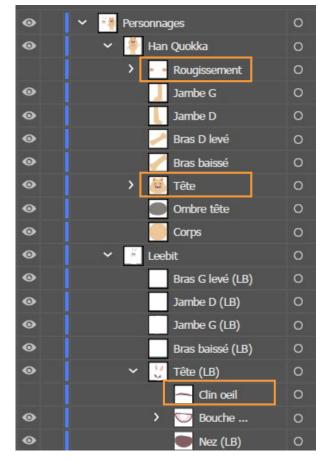


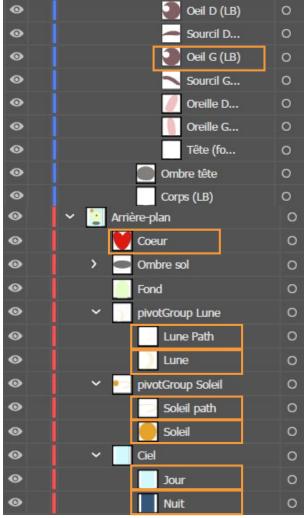


FPB-Animation: Combination of animations

Layers used for the example and initial illustration.







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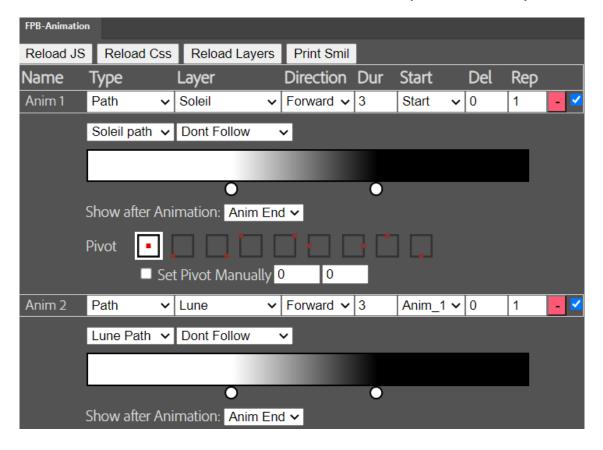






FPB-Animation: Combining animations

Animations can be combined and layered if they are relevant to the child's understanding.





The mole disappears and is replaced by redness within two and a half seconds.

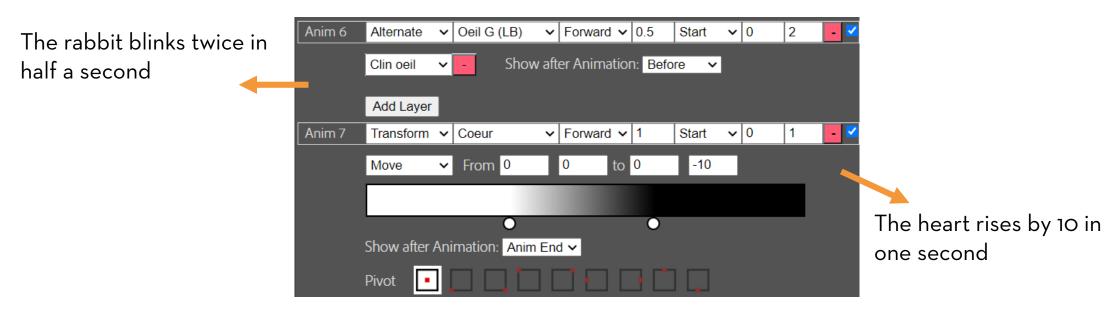
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FPB-Animation: Combining animations



On the next slide, the paths for the Path animation have been made visible for a better understanding of the animation.

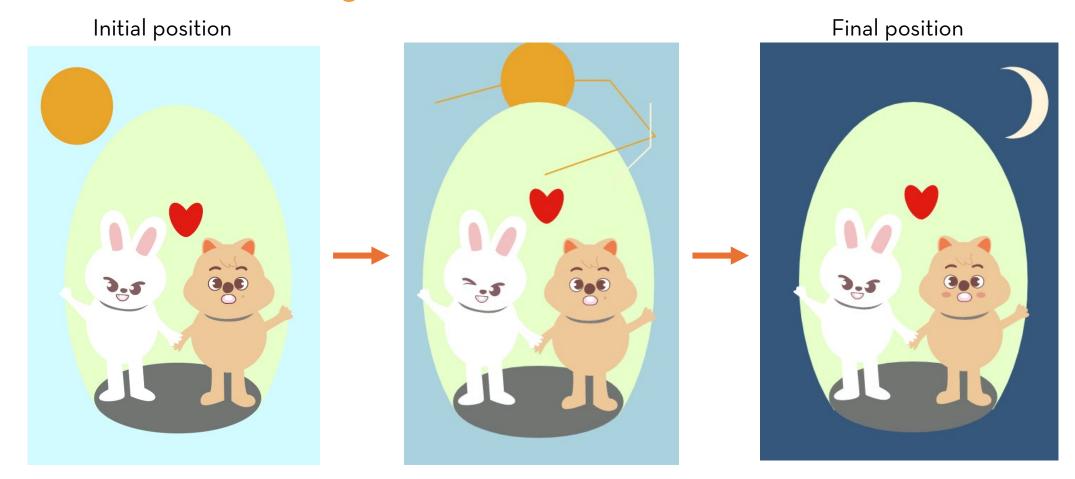








FPB-Animation: Combining animations



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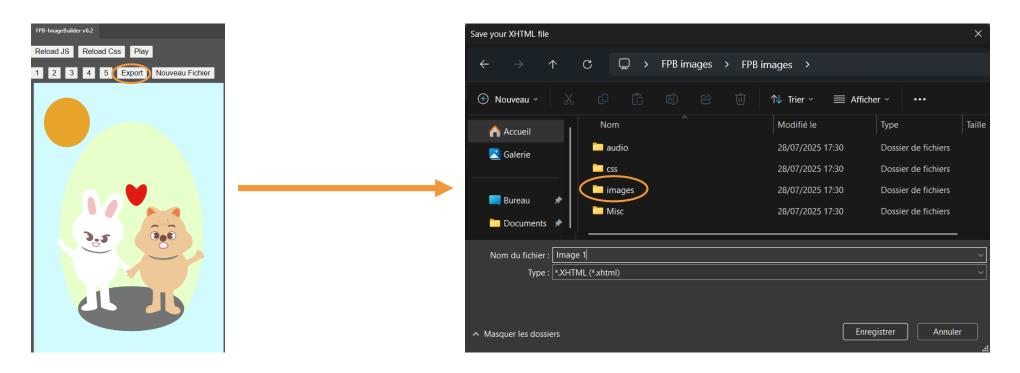






What next?

Once your illustrations are ready, you can check one last time that all the levels are working by playing them in the **ImageBuilder** window. If you are satisfied with the result, you can then export them one by one. To read them correctly, you must place them in the **FPB images** folder, which you can find and download <u>here</u>.



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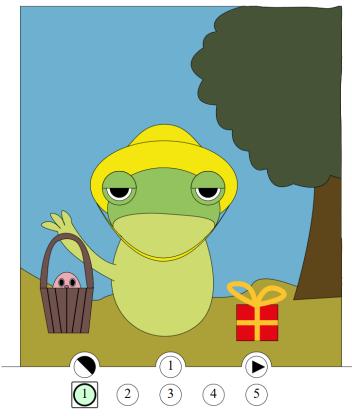


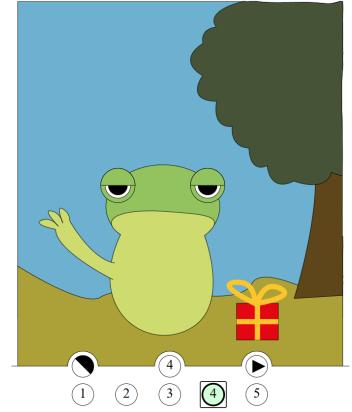




And then?

Before inserting them into the builder that creates the EPUB3, you can view your illustrations by clicking on them; they will open in your browser.







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