

Insert a GIF into LaTeX Beamer — Short guide



By Admin August 15, 2021

Learn how to insert a GIF inside a beamer presentation through step by step tutorial

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Description

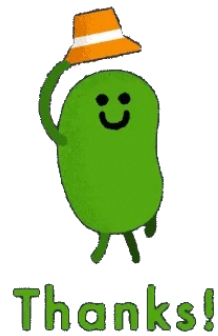
Step 1: Convert GIF to PNGs

Step 2: Embedded animation in Beamer

– Steps description

To insert a GIF into a beamer presentation we just need to follow these steps: 1) [Convert the GIF into a sequence of PNG images](#), 2) [make Beamer display these images at the correct speed, so as to make it look like the original GIF](#).

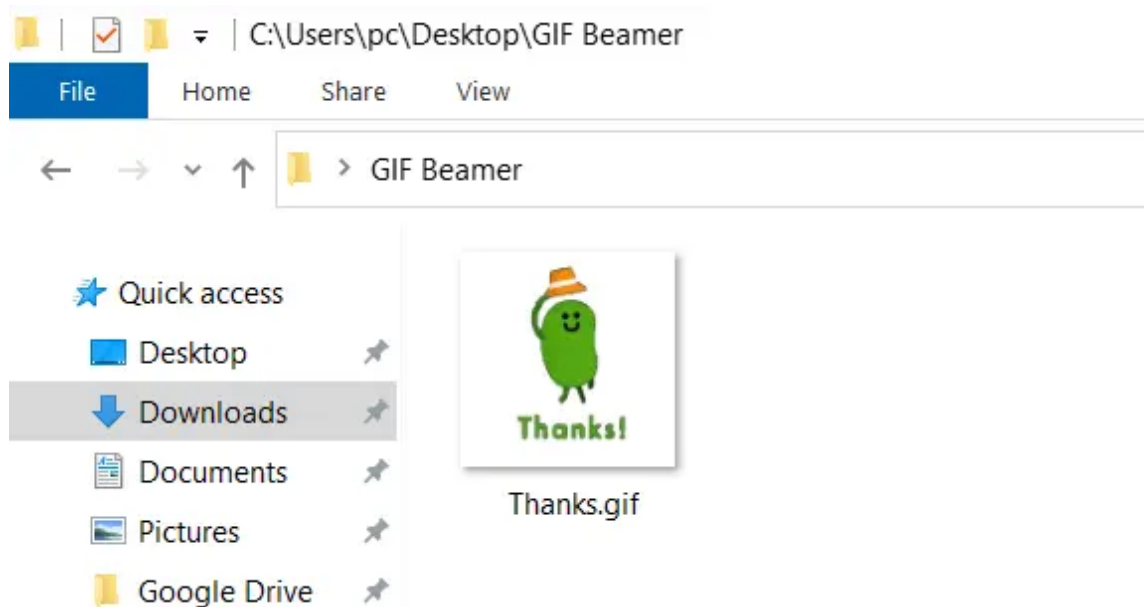
Consider the following “Thanks.gif” example:



Step 1: Convert GIF to PNGs

For the first step, we need an external program such as [ImageMagick](#) to get a sequence of images from a GIF file. The latter is achieved by the command `convert` or `magick convert` (depending on the version) .

– Let's put the GIF image in a separate folder (GIF beamer in this example) as shown below:



– Then, if the GIF we want to insert is called Thanks.gif, we shall run the following command line in cmd:

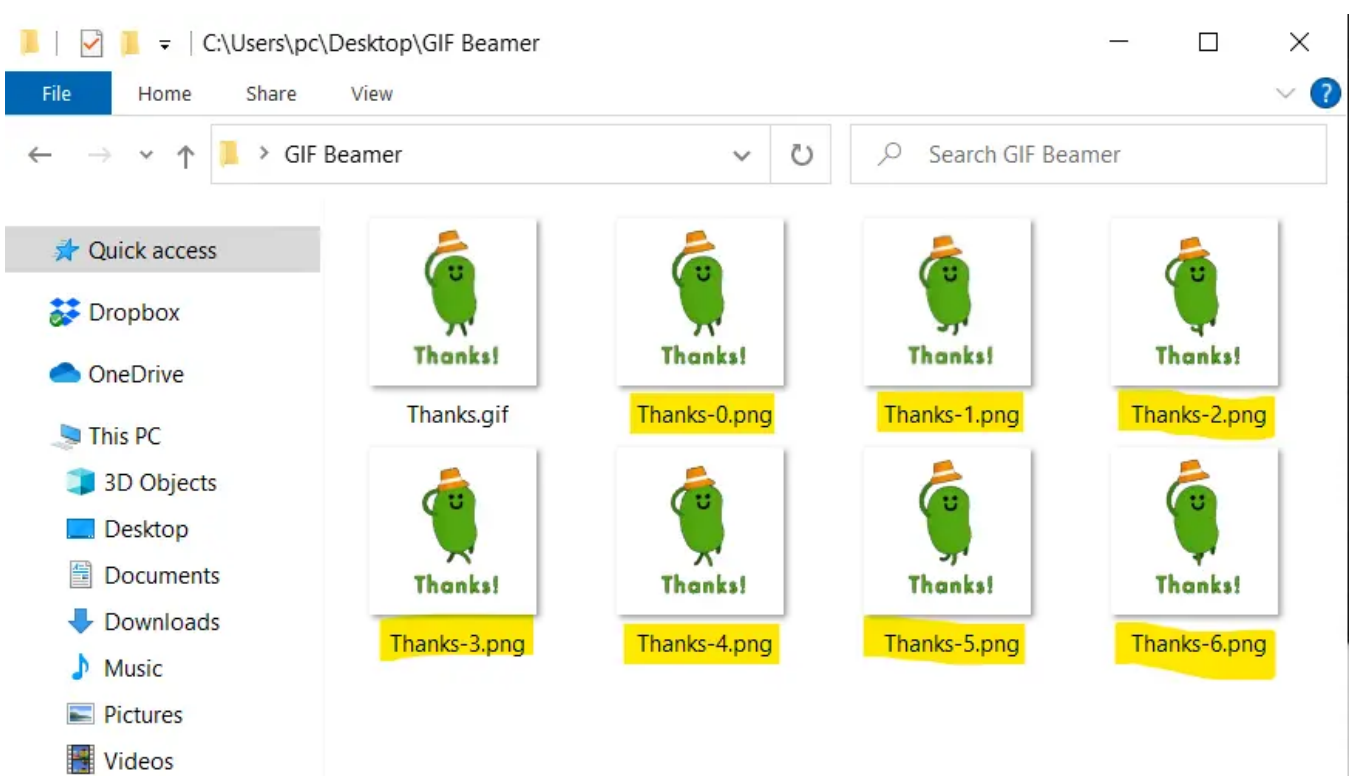
```
magick convert -coalesce Thanks.gif Thanks.png
```

! The cmd current folder should be the same as the GIF folder. To this end, we used the command `cd imagePath` as shown below in a green color!

```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.19042.1165]
(c) Microsoft Corporation. All rights reserved.

C:\WINDOWS\system32>cd C:\Users\pc\Desktop\GIF Beamer
C:\Users\pc\Desktop\GIF Beamer>magick convert -coalesce Thanks.gif Thanks.png
C:\Users\pc\Desktop\GIF Beamer>
```

– (or, if this doesn't work, use only `magick`). This will create a set of numbered files `Thanks-x`, where `x` is the number of frames of our GIF (sequence of 6 PNG images in this example):



And now, we are ready for the next step!



For step 1, we can also use online solutions such as [GIF frame extractor \(splitter\)](#)

Step 2: Embedded animation in Beamer

Now let's see how we can embed this content inside beamer. The following code shows a minimal working example of how to put GIFs inside beamer presentations using the [animate package](#):

```
1. % Embedded animations in Beamer
2. \documentclass{beamer}
3.
4. % Theme choice
5. \usetheme{EastLansing}
6.
7. % Required package
8. \usepackage{animate}
9.
10. \begin{document}
11.
12. \begin{frame}{GIFs in Beamer}
13. \centering
14. \animategraphics[loop,width=4cm]{10}{Thanks-}{0}{6}
15. \end{frame}
16.
17. \end{document}
```

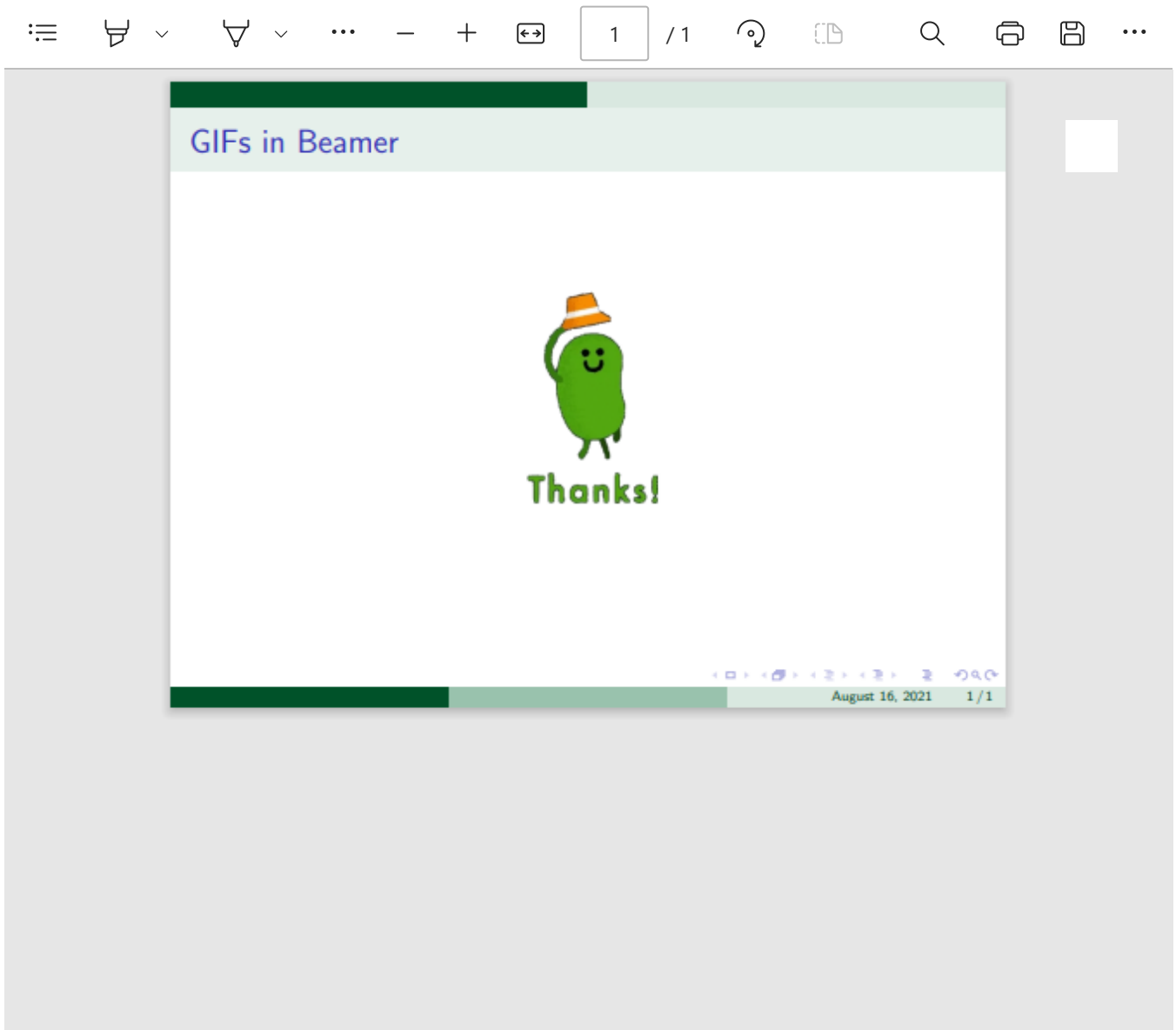
Copy

Compiling this code yields:

0:00 / 0:09



As with videos embedded in beamer, not all PDF viewers will be capable of reproducing the content. In general, only JavaScript-supporting PDF viewers (such as the popular Acrobat Reader or KDE Ocular) will be able to display this kind of content.



[Insert-a-GIF-in-Beamer](#) [Download PDF](#)

Let's comment how the structure of the `\animategraphics` command works. First of all, the mandatory arguments are, following this order: the frame rate desired for the GIF (10ms in this example), the name of the images without the number that changes every time (Thanks- in this example) and the range of numbers of the images (in this case from 0 to 6).

Also, the optional command **loop** makes the GIF, once started, reproduce in a loop (like a real GIF, actually), and the optional command `controls` makes appear a control bar to basically start and stop the animation; which is omitted in this example.

Summary

- A GIF in beamer can be inserted by splitting it to images and then animate them using the command `\animategraphics`.
- `\animategraphics` command requires loading animate package. It accepts options like displaying images in a loop, set control buttons and set the delay between images.

Next Lesson: [12 Beamer Code Listing — Syntax highlighter](#)

Search





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