Ways of embedding video in Beamer

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The full tex code is embedded in this pdf.
Open the pdf in Adobe or Okular to see it.

Completely embedded, works on Linux

Generate a bunch of jpg pictures to make the movie

Stitch them together to make the movie

```
mencoder mf://*.jpg -mf fps=10:type=jpg -ovc lavc -lavcopts vcodec=mpeg4:mbd=2:trell
      -oac copy -o output.avi
ffmpeg -i output.avi -vcodec mpeg4 -b:v 1200k -flags +aic+mv4 output.mp4
Do not go below 10fps for playing on Mac
```
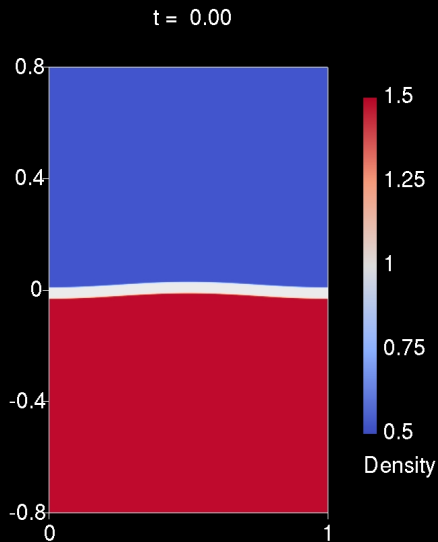
In Beamer:

```
\usepackage{multimedia}
\movie{\includegraphics[width = 1.2\textheight, height = 0.9\textheight]{still.jpg}}{movie.mp4}
```

Compile PDF

```
pdflatex report;
```

Open PDF in Adobe X or Okular

Using multimedia package

Completely embedded, works on Mac, not shown here, uncomment next slide

Generate a bunch of jpg pictures to make the movie

Stitch them together to make the movie

```
mencoder mf://*.jpg -mf fps=10:type=jpg -ovc lavc -lavcopts vcodec=mpeg4:mbd=2:trell
    -oac copy -o output.avi
ffmpeg -i output.avi -vcodec mpeg4 -b:v 1200k -flags +aic+mv4 output.mp4
Do not go below 10fps for playing on Mac
```

In Beamer:

```
\usepackage{movie15}
\includemovie[poster=./still.jpg,repeat=10]{1.2\textheight}{0.9\textheight}{./movie.mp4}
```

Compile PDF

```
pdflatex report;
```

Open PDF in Adobe X

Open in external viewer, works on Linux/Windows

Generate a bunch of jpg pictures to make the movie

Stitch them together to make the movie

```
mencoder mf://*.jpg -mf fps=10:type=jpg -ovc lavc -lavcopts vcodec=mpeg4:mbd=2:trell
        -oac copy -o output.avi
mencoder 'mf://*.jpg' -mf type=jpg:fps=10 -ovc lavc -lavcopts vcodec=wmv2
        -oac copy -o output.mpg
```

Do not go below 10fps for playing on Mac

In Beamer:

```
\usepackage{multimedia}
\movie[externalviewer]{\includegraphics[width = 1.2\textheight, height = 0.9\textheight]{still.jpg
```

Compile PDF

```
pdflatex report;
```

Open PDF, make sure you fix fullscreen permissions

Using external viewer (with multimedia package)