

Test Animation in PDF

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Create individual frames

```
library(ggplot2)

files <- path.expand(file.path("~", "Documents", "Sandbox", "PDFanimation", "indiv_plots"))
unlink(files, recursive = TRUE)
dir.create(files)

set.seed(1)
n <- 1e4
for (frame in 1:20) {
  d <- data.frame(x = rnorm(n, mean = frame, sd = frame/10))
  g <- ggplot(d) + geom_density(aes(x)) + coord_cartesian(xlim = c(0, 20), ylim = c(0, 1))
  suppressMessages({
    ggsave(g, filename = file.path(files, paste0("frame_", frame, ".jpg")))
  })
}
```

LaTeX Animation

If you have lots of individual files, you can animate them with LaTeX. The code to produce this is from *LaTeX*. The YAML header requires

```
header-includes:
  - \usepackage[final,autoplay]{animate}
```

and the actual animation is created with

```
\animategraphics[width=0.8\textwidth,loop]{10}{`r paste0(files, "/frame_")`}{1}{20}
```

which will be viewable from Adobe Acrobat (at least).