

Thanks to <https://classroomclipart.com> for the graphics.  
 For displaying several pre-made figures you could write out the figure environments yourself.

Figure 1: Explicit figure environment.



To create many figure environments, I would suggest building a data.frame with captions, figure labels, options, and file paths:

```
myfigs <-
  data.frame(caption = c("Bright Red Fall Foliage", "Chat 9", "Man On Computer"),
            label   = c("brff", "c9", "moc"),
            option  = c("width=0.1\\linewidth", "width=0.2\\linewidth", "width=0.3\\linewidth"),
            path    = c("figs/bright-red-fall-foliage-photo_8304-Edit.jpg",
                      "figs/chat-9-94.jpg",
                      "figs/man-working-on-a-computer-clipart-318.jpg"),
            stringsAsFactors = FALSE)

myfigs

##           caption label           option
## 1 Bright Red Fall Foliage brff width=0.1\\linewidth
## 2           Chat 9      c9 width=0.2\\linewidth
## 3   Man On Computer   moc width=0.3\\linewidth
##                               path
## 1 figs/bright-red-fall-foliage-photo_8304-Edit.jpg
## 2                               figs/chat-9-94.jpg
## 3   figs/man-working-on-a-computer-clipart-318.jpg
```

Build a function for creating a figure environment:

```
build_fig_env <- function(caption = "", label = "", option = "", path = "") {
  cat(
    sprintf("\\begin{figure}[!h]\\n\\centering\\n\\caption{%s \\label{fig:%s}}\\n\\includegraphics[%s]{%s}\\n",
            caption, label, option, path)
  )
}
```

Now call the function using mapply. The mapply call is wrapped in a call to invisible to suppress the irrelevant output.

```
invisible(
  mapply(build_fig_env,
         caption = myfigs$caption,
         label   = myfigs$label,
         option  = myfigs$option,
```

```
path      = myfigs$path,  
SIMPLIFY = FALSE)  
)
```

Figure 2: Bright Red Fall Foliage

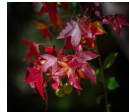


Figure 3: Chat 9



Figure 4: Man On Computer



This is just one solution to your question.