

# pipelines

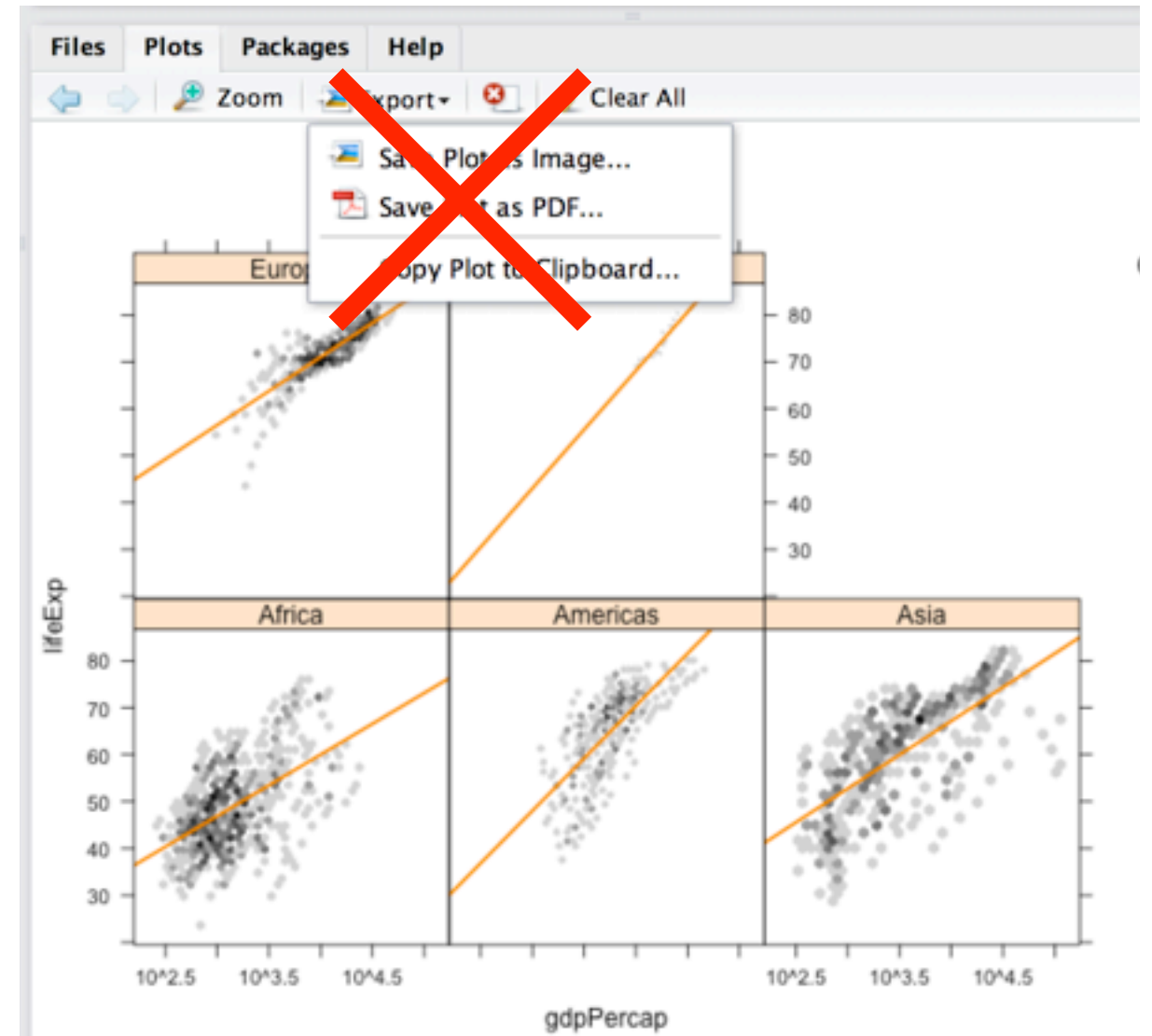
Dr. Jennifer (Jenny) Bryan

Department of Statistics and Michael Smith Laboratories

University of British Columbia

**saving figures to file**

**do not save figures mouse-y style**  
not self-documenting  
not reproducible



most correct method:

```
pdf("awesome_figure.pdf")  
plot(1:10)  
dev.off()
```

```
postscript(), svg(), png(), tiff(), ....
```

fine for everyday use:

```
plot(1:10)  
dev.print(pdf, "awesome_figure.pdf")
```

```
postscript(), svg(), png(), tiff(), ....
```

- If the plot is on your screen

```
ggsave("~/path/to/figure/filename.png")
```

- If your plot is assigned to an object

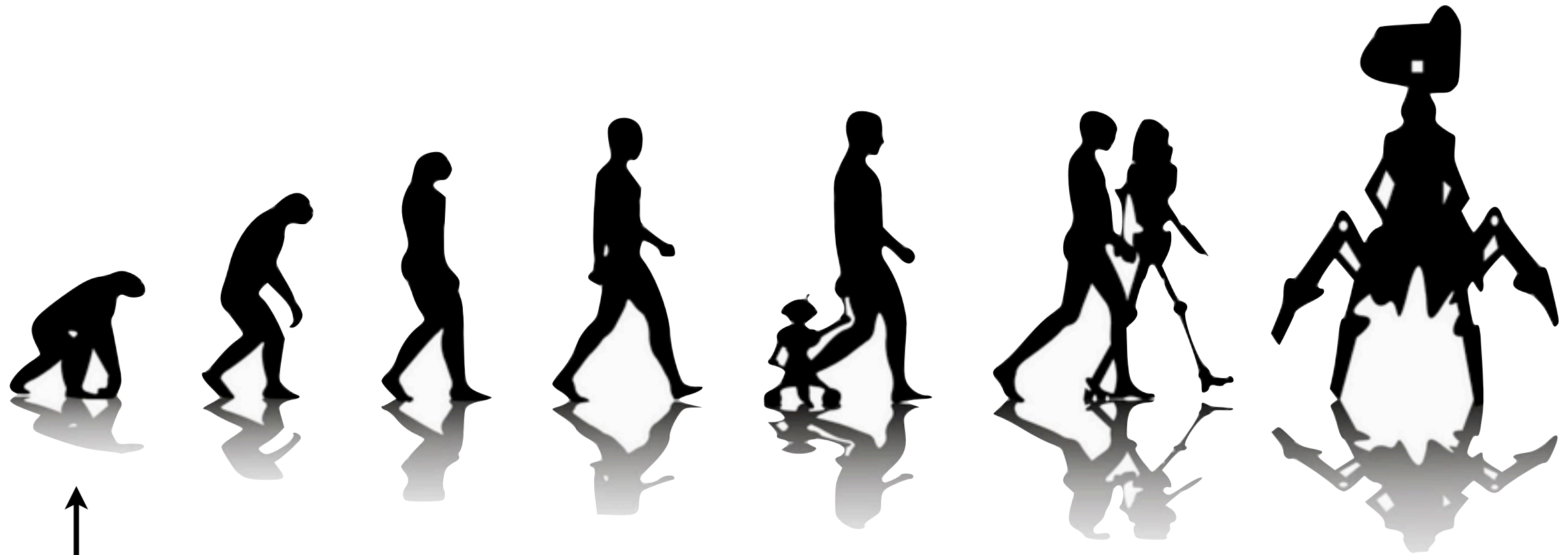
```
ggsave(plot1, file = "~/path/to/figure/filename.png")
```

- Specify a size

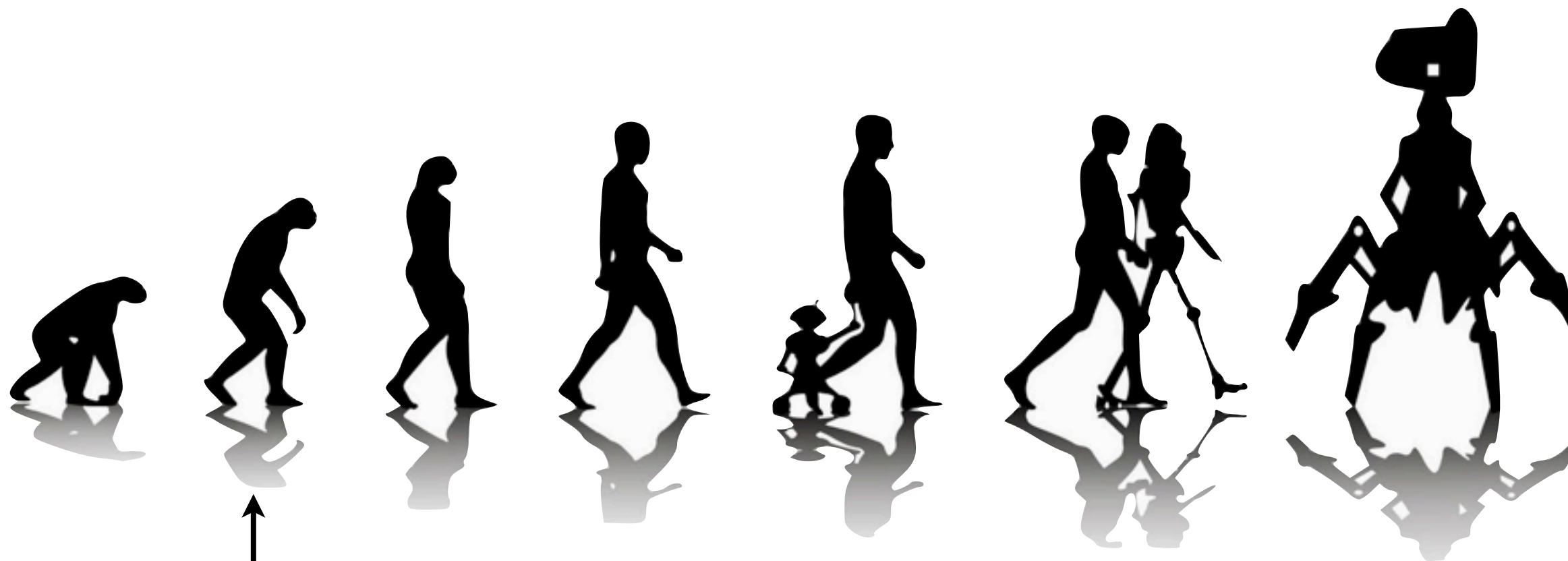
```
ggsave(file = "/path/to/figure/filename.png", width = 6,  
height = 4)
```

- or any format (pdf, png, eps, svg, jpg)

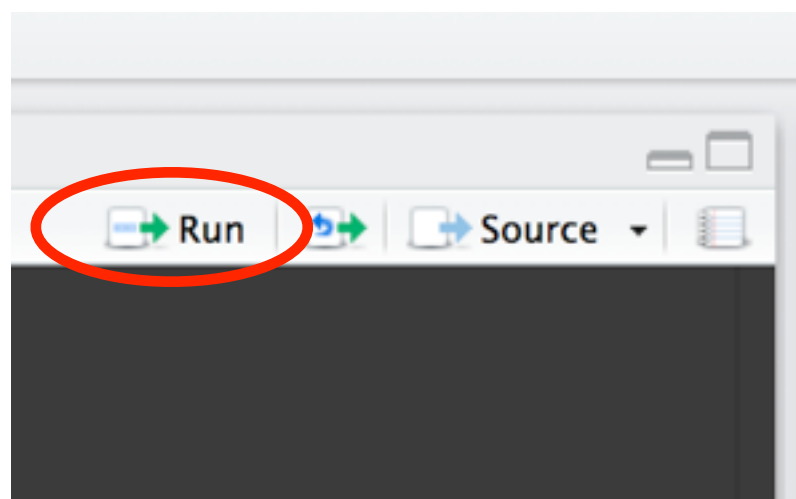
```
ggsave(file = "/path/to/figure/filename.eps")  
ggsave(file = "/path/to/figure/filename.jpg")  
ggsave(file = "/path/to/figure/filename.pdf")
```



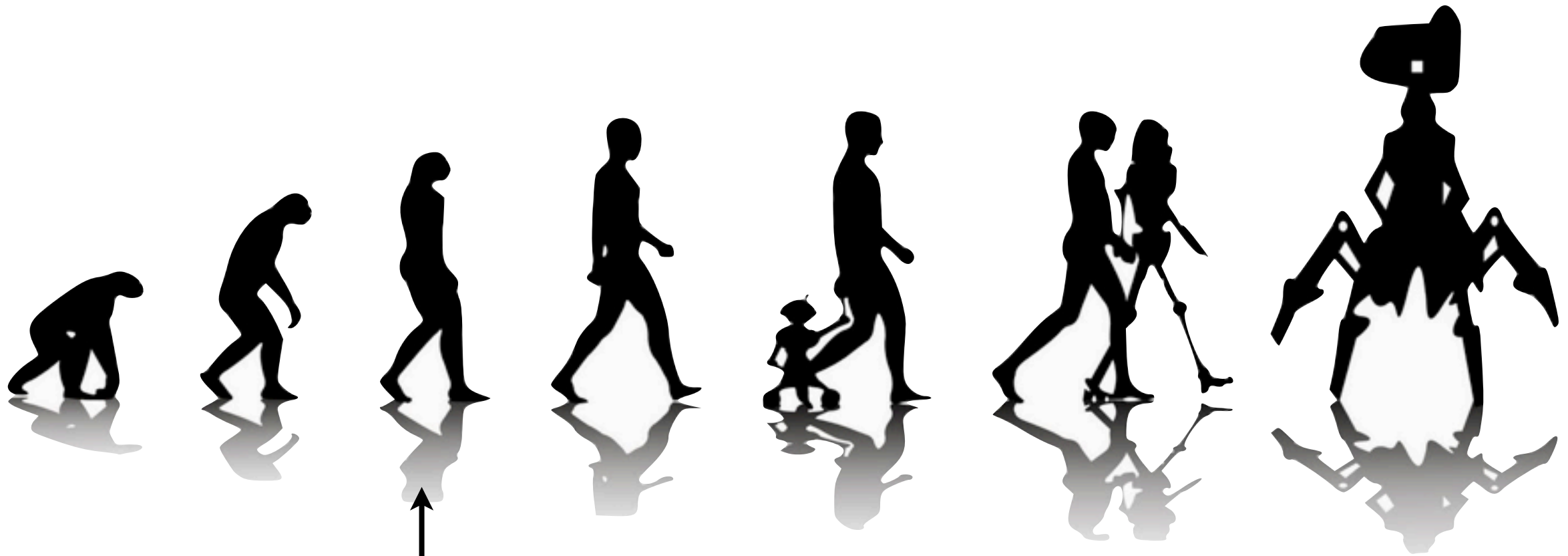
↑  
typing in the R Console



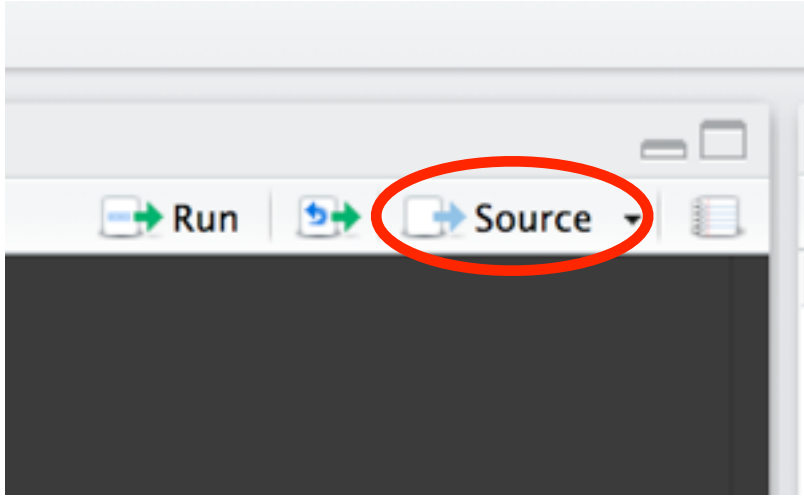
save commands in .r script,  
step through line by line w/ RStudio's help

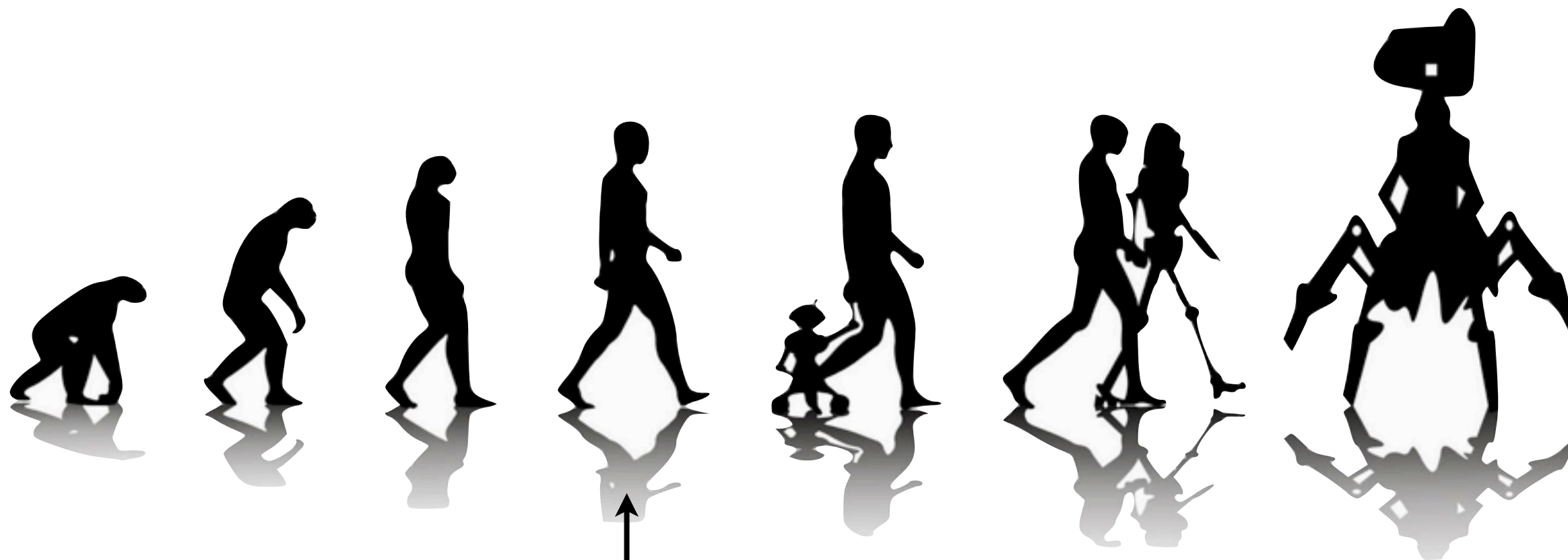






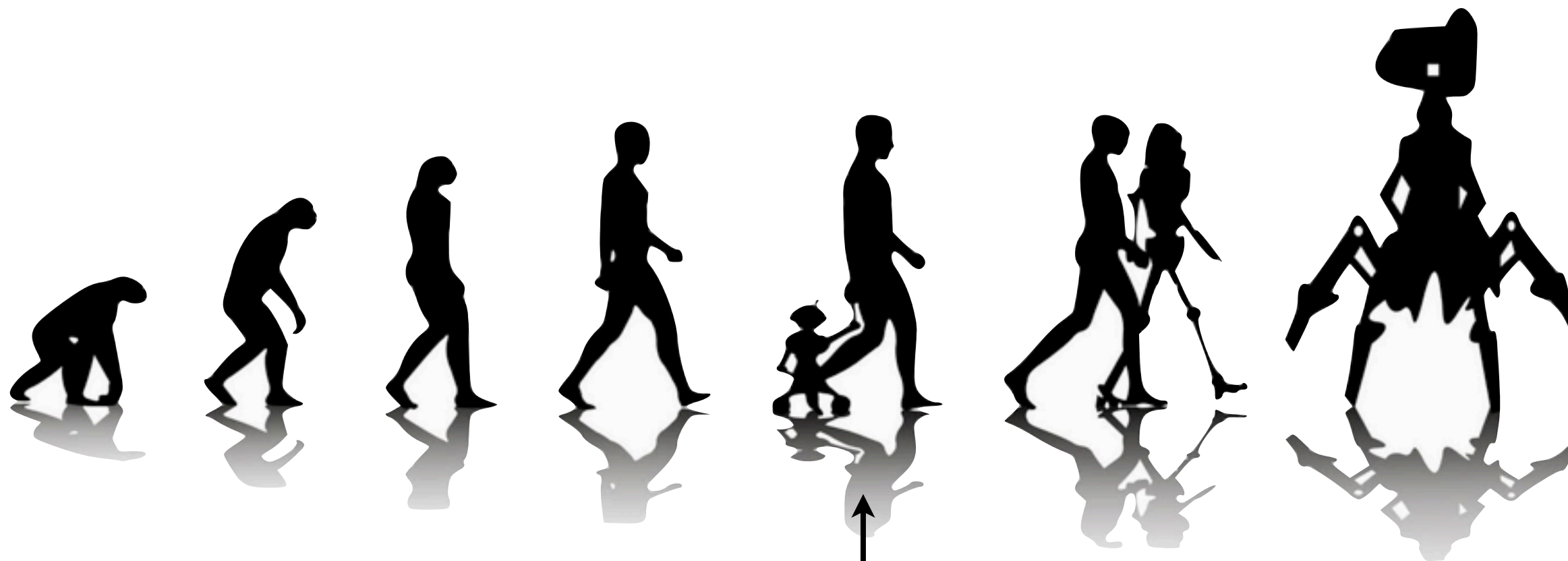
source entire file with RStudio's button





source entire file from R command line

```
> source('darwin.r')
```

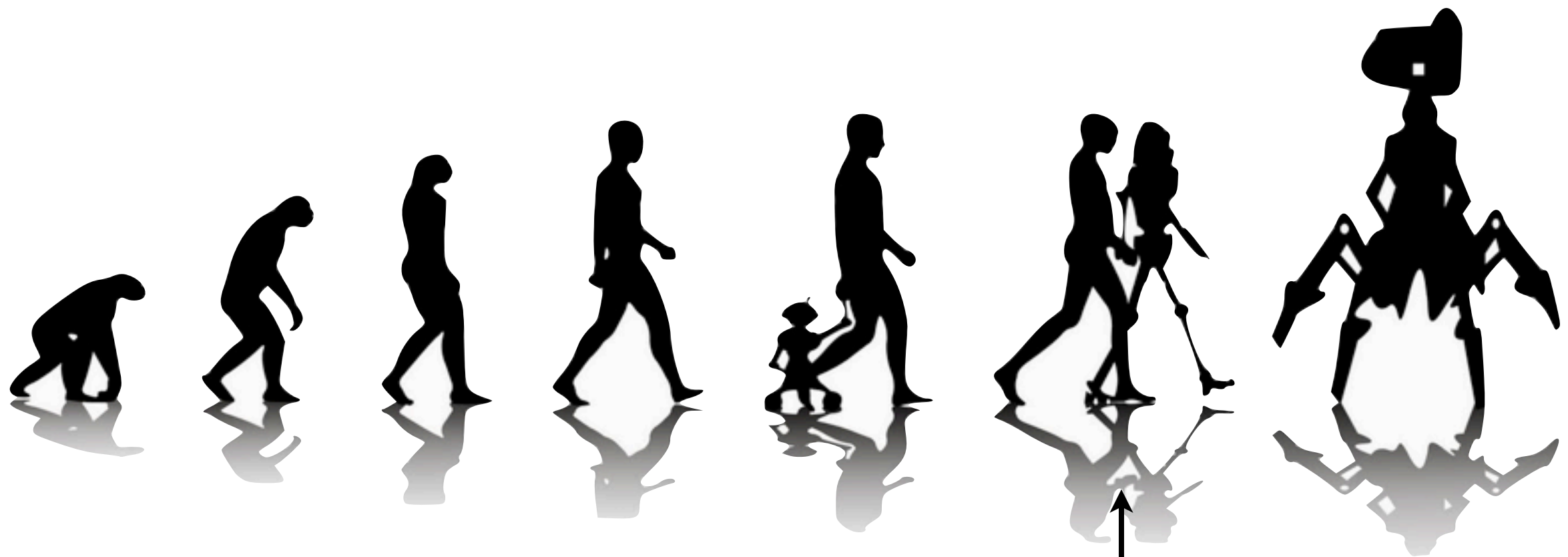


source entire file from another R script

```
source('big_bang.r')
```

```
source('darwin.r')
```

```
source('zombie_apocalypse.r')
```

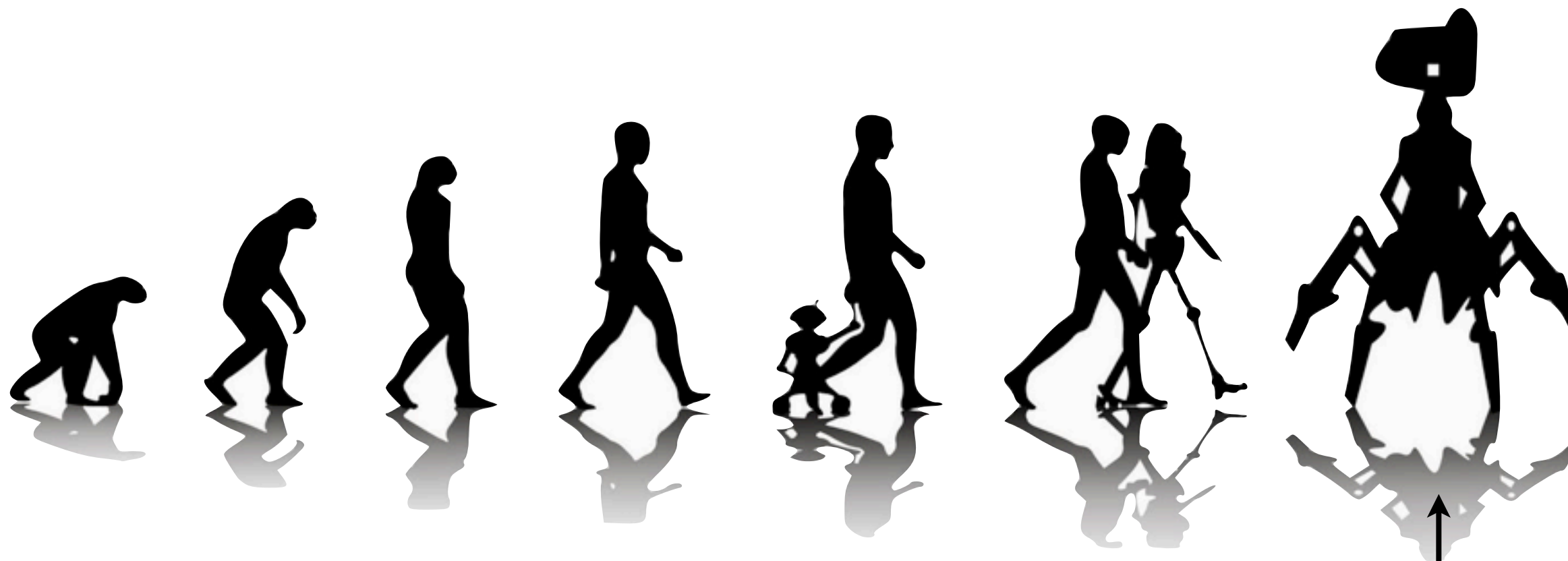


source entire file from shell

```
$ Rscript darwin.r > darwin.rout
```

or

```
$ Rscript -e "knitr::stitch_rmd('darwin.r')"
```



execute file from a Makefile

```
darwin.html: darwin.r input-data.txt
```

```
Rscript -e "knitr::stitch_rmd('darwin.r')"; rm -r darwin.md figure/*
```