

pipelines

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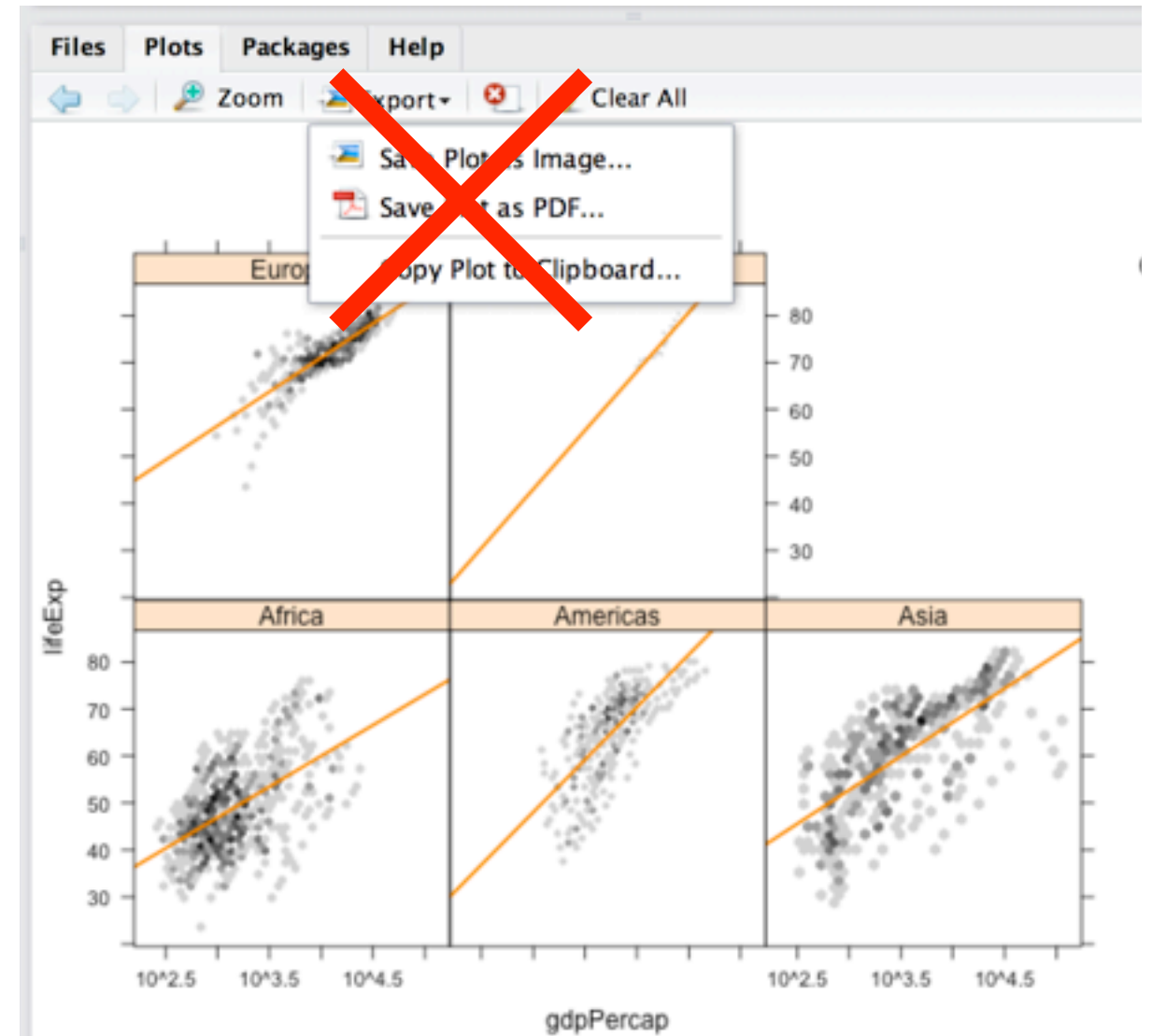
University of British Columbia

*See material conveyed in other formats re:
reading and writing R objects!*

```
read.table(), write.table()  
readRDS(), saveRDS()  
dget(), dput()
```

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

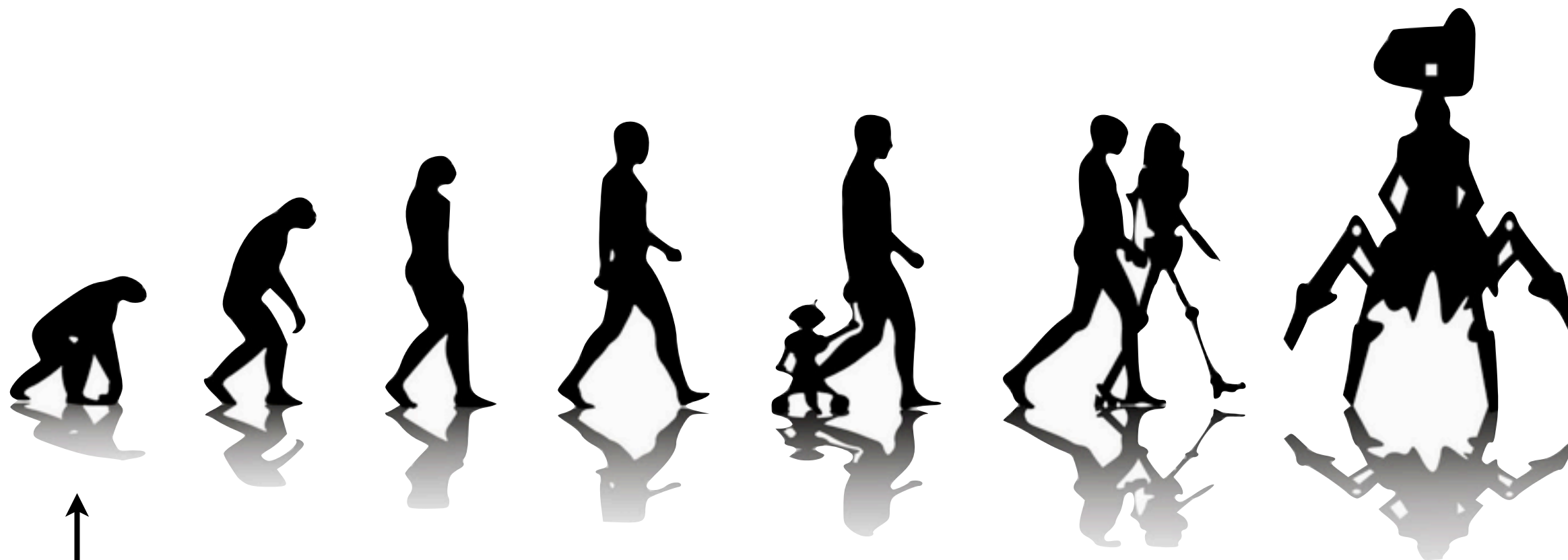
```
ggsave(plot1, file = "~/path/to/figure/filename.png")
```

- Specify a size

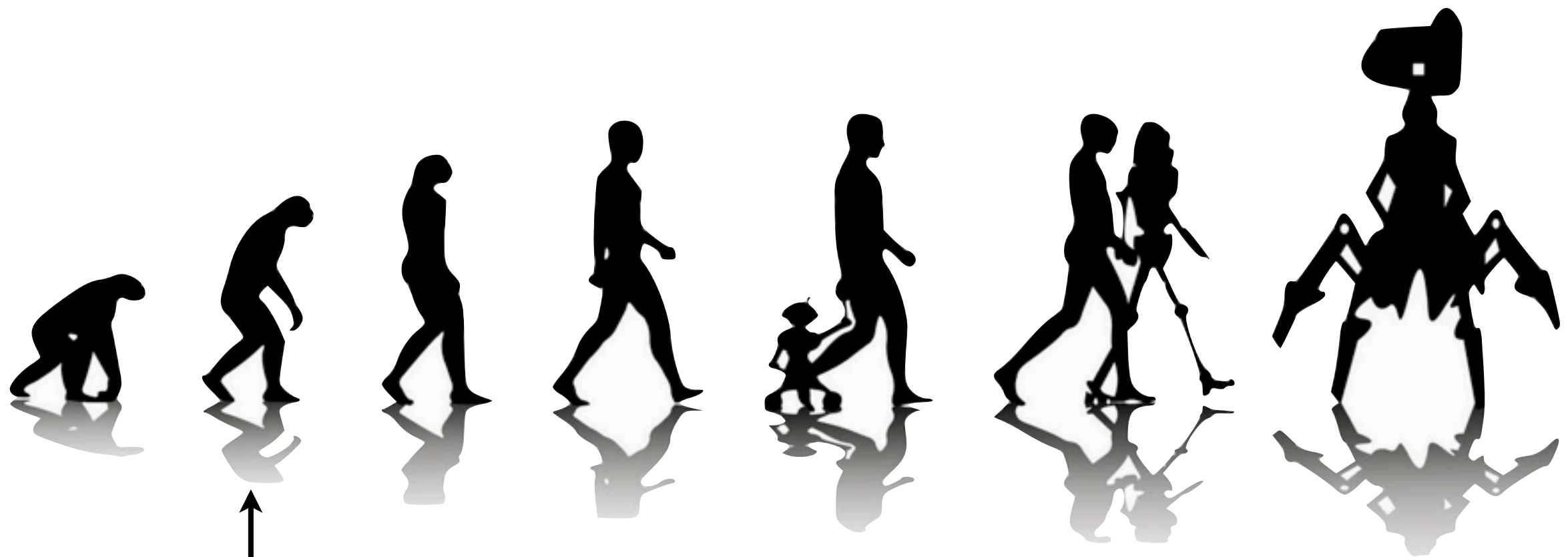
```
ggsave(file = "/path/to/figure/filename.png", width = 6,  
height = 4)
```

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

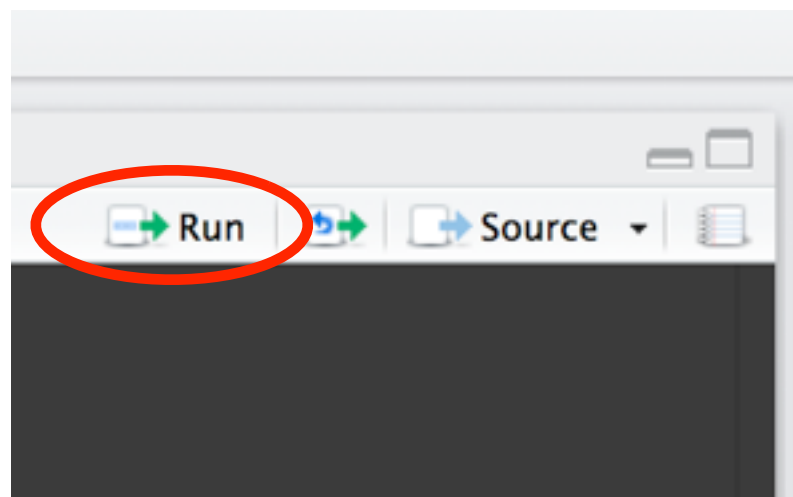
```
ggsave(file = "/path/to/figure/filename.eps")  
ggsave(file = "/path/to/figure/filename.jpg")  
ggsave(file = "/path/to/figure/filename.pdf")
```

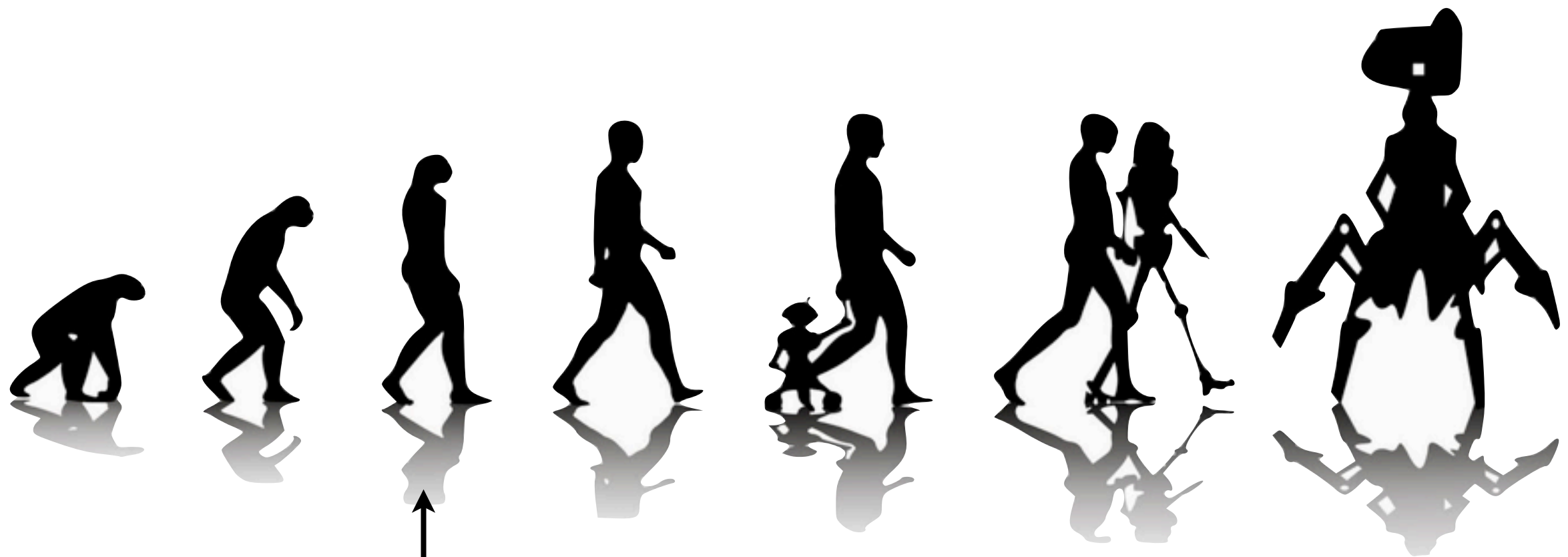


↑
typing in the R Console

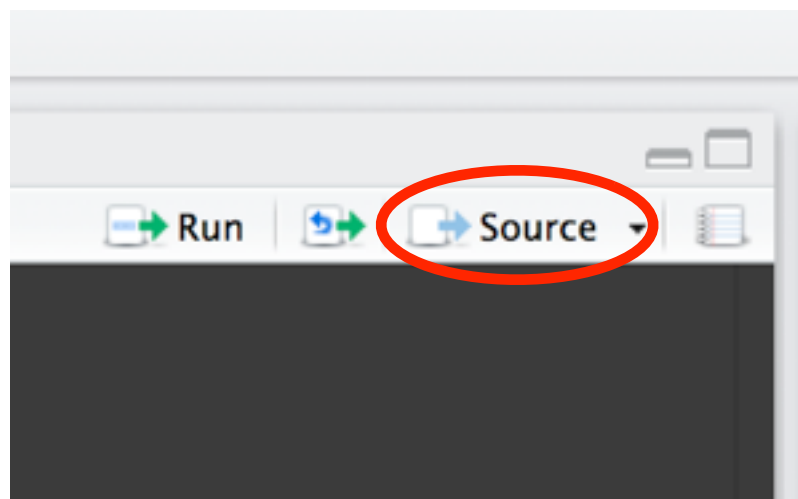


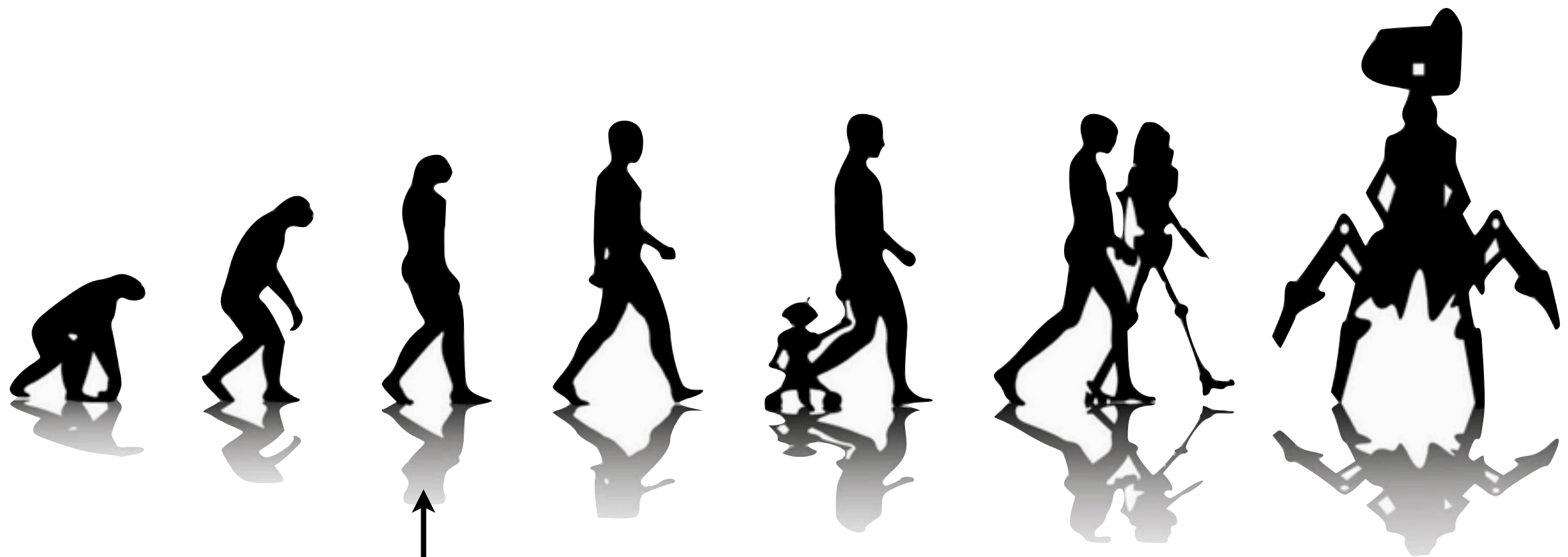
save commands in .r script,
step through line by line w/ RStudio's help





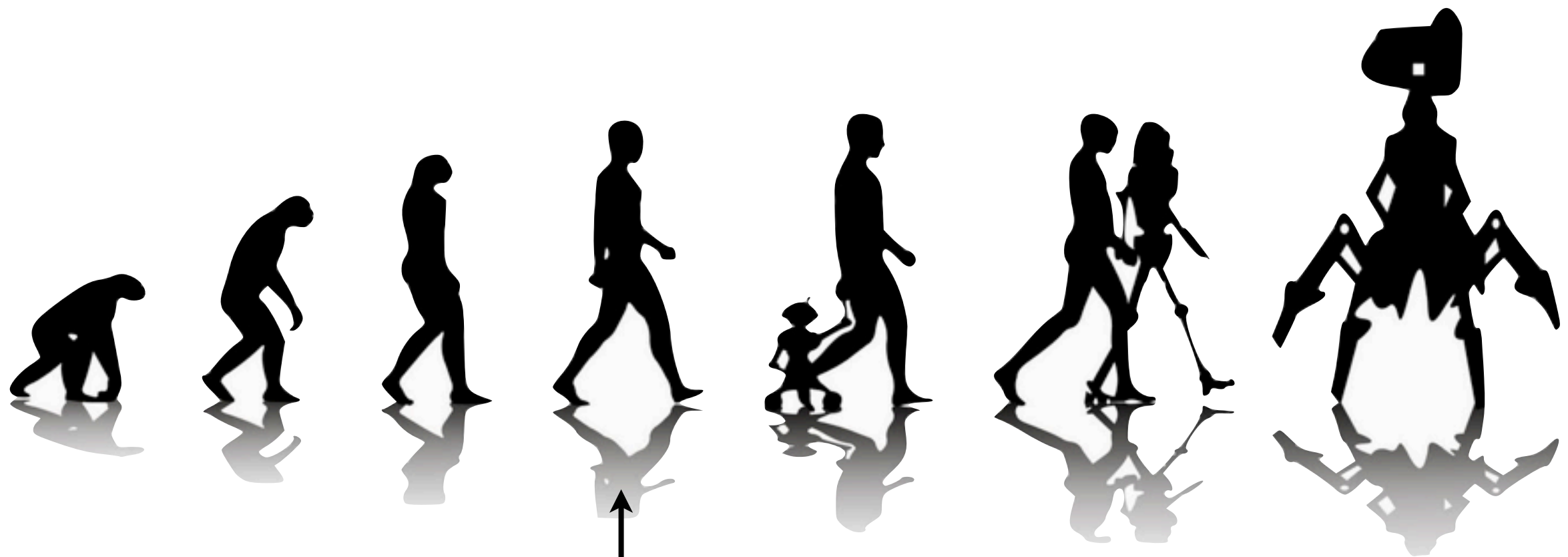
source entire file with RStudio's button





source entire file from R command line

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

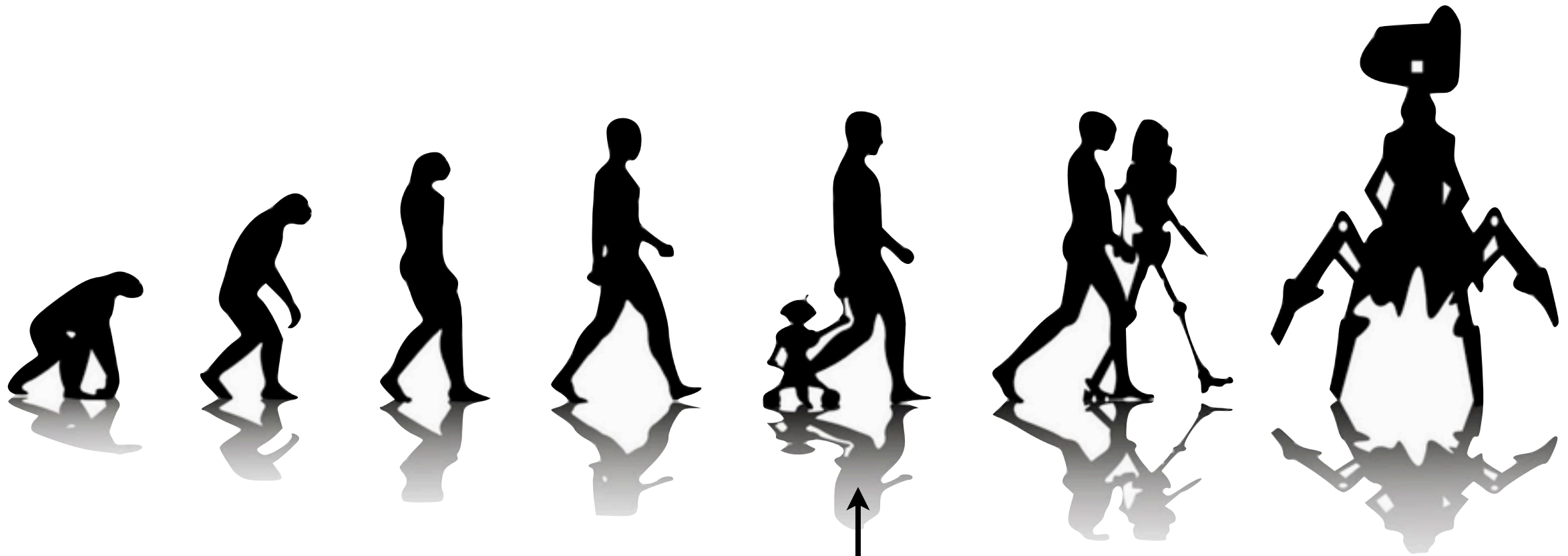


source entire file from another R script

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

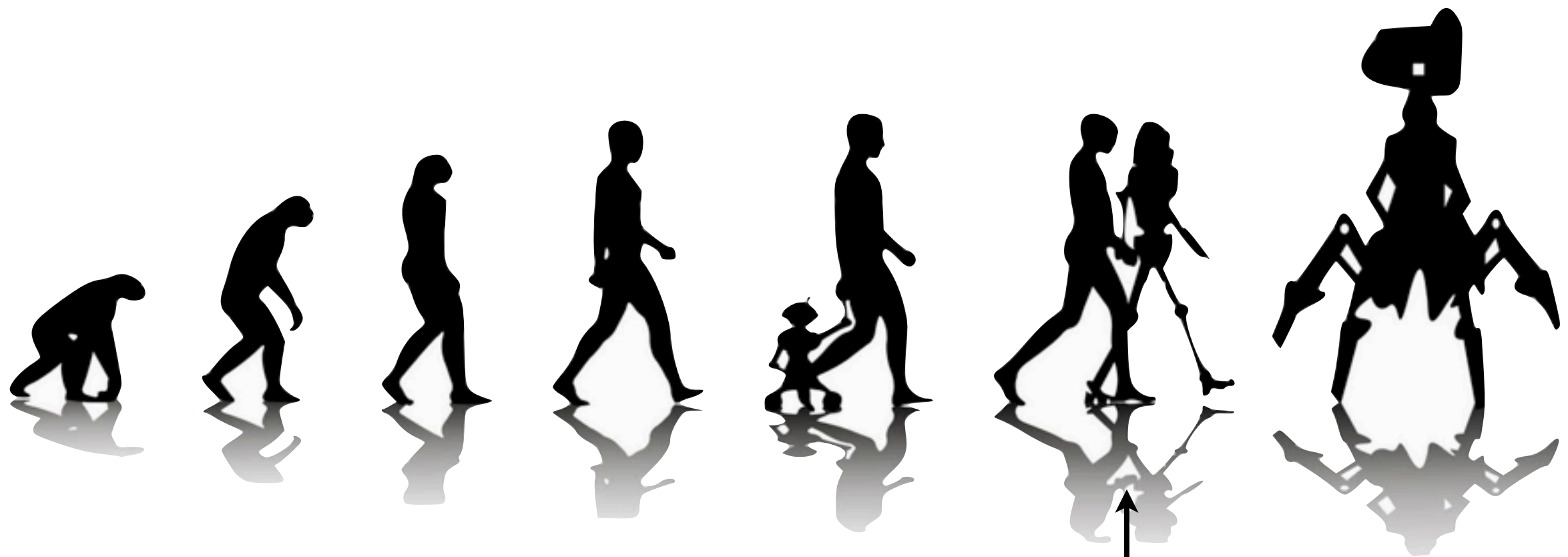
```
source( 'darwin.r' )
```

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



source entire file from shell
(and keep a report!)

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



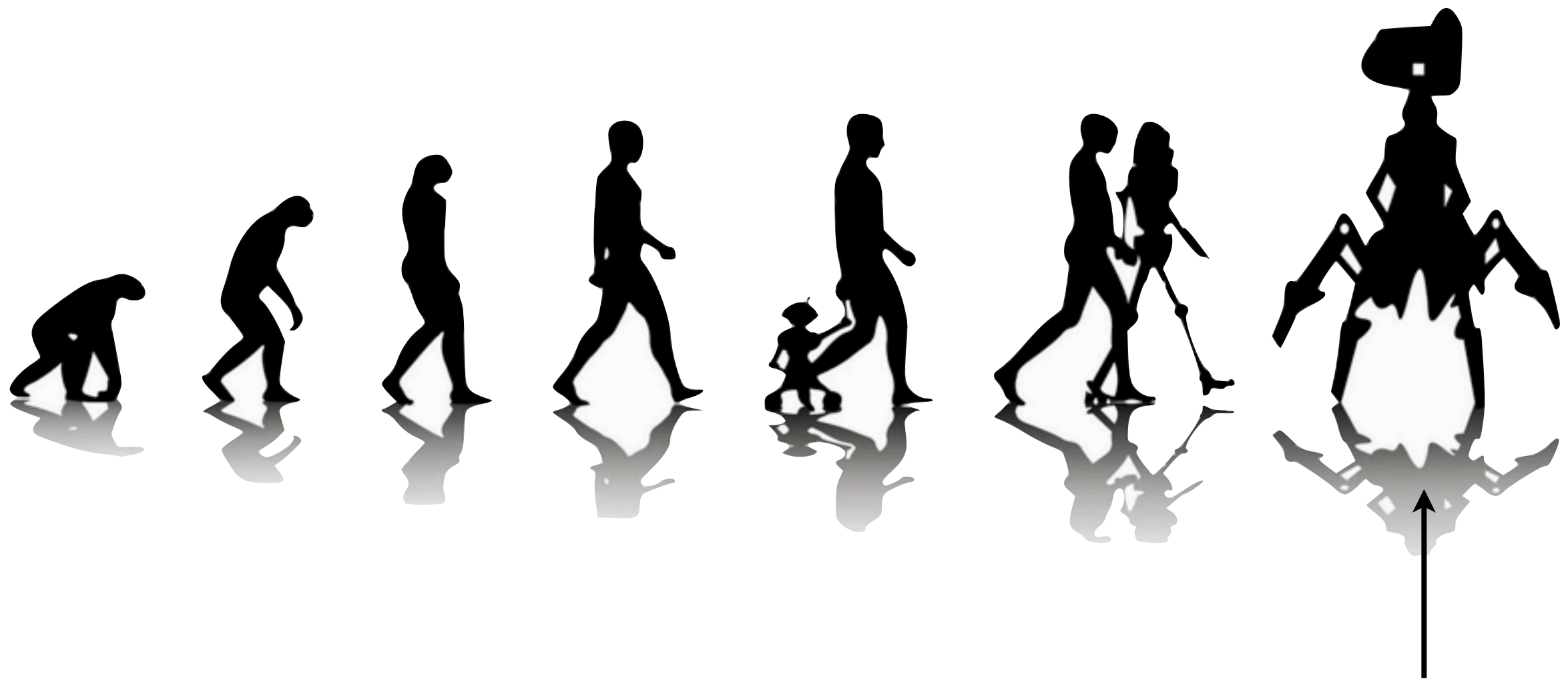
source entire file from shell
(and keep a much nicer HTML report!)

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

`sessionInfo()`

include `sessionInfo()` as the last line of a script in a pipeline

your report will then include lots of information about your version of R and add-on packages



execute file, write a report, and tidy
up after with a rule in a Makefile

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

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