Contents

```
print(opts_chunk$get())

## $eval
## [1] TRUE
##
## $echo
## [1] TRUE
##
## $results
## [1] "markup"
##
## $tidy
## [1] TRUE
##
## $cache
## [1] FALSE
##
## $dependson
## NULL
##
## $cache.path
## [1] "cache/"
##
## $cache.vars
## NULL
##
## $ref.label
## NULL
##
## $child
## NULL
##
## $engine
## [1] "R"
##
## $prompt
## [1] FALSE
##
## $comment
## [1] "##"
##
## $autodep
## [1] FALSE
```

```
##
## $fig.keep
## [1] "high"
##
## $fig.show
## [1] "asis"
##
## $fig.align
## [1] "default"
##
## $fig.path
## [1] "figure/"
##
## $fig.ext
## NULL
##
## $dev
## [1] "pdf"
##
## $dpi
## [1] 72
##
## $dev.args
## NULL
##
## $fig.width
## [1] 7
##
## $fig.height
## [1] 7
##
## $fig.env
## [1] "figure"
##
## $fig.cap
## NULL
##
## $fig.scap
## NULL
##
## $fig.lp
## [1] "fig:"
##
## $fig.pos
## [1] ""
```

```
##
## $out.width
## [1] "\\maxwidth"
##
## $out.height
## NULL
##
## $out.extra
## NULL
##
## $resize.width
## NULL
##
## $resize.height
## NULL
##
## $external
## [1] TRUE
##
## $sanitize
## [1] FALSE
##
## $purl
## [1] TRUE
##
## $highlight
## [1] TRUE
##
## $size
## [1] "normalsize"
##
## $warning
## [1] TRUE
##
## $error
## [1] TRUE
##
## $message
## [1] TRUE
##
## $background
## [1] "#F7F7F7"
##
## $split
## [1] FALSE
```

```
##
## $include
## [1] TRUE
##
## $interval
## [1] 1
##
## $aniopts
## [1] "controls,loop"
```

```
library("data.table")
library("ggplot2")
df <- data.table(expand.grid(seq(10000, 2e+05, 1000), seq(10000, 2e+05, 2000),
    seq(1e+05, 4e+05, 5000)))
setnames(df, c("Var1", "Var2", "Var3"), c("ad", "fm", "value"))
df <- df[ad + fm < value * 0.9 & ad + fm >= value * 0.6]
df <- df[, `:=`(`P Value`, paste0(round(value/1000, 2), "k"))]
df <- df[, `:=`(`ad Amount`, paste0(round(ad/1000, 2), "k"))]
df <- df[, `:=`(ratio, (ad + fm)/value)]
```

```
# ggplot(df[value %in%
# seq(100000,400000,50000)&fm==50000],aes(x=ratio,y=ad,group=value,colour=`P
# Value`))+ geom_line()
```