tree::tree object cannot be accessed in editor, only in console

Setting up an example

Let's create some small data for a `tree::tree` approach:

```
rm(list=ls(all=TRUE))
library(tree); set.seed(1)
summary(x <- data.frame(
   Y=factor(rep(letters[1:2], each=250)),
   X1=c(runif(250, 1, 5), runif(250, 3, 7)),
   X2=c(runif(250, 5, 9), runif(250, 1, 5))))
```

```
##  Y            X1              X2
##  a:250   Min.   :1.052   Min.   :1.005
##  b:250   1st Qu.:2.989   1st Qu.:2.880
##          Median :3.902   Median :5.009
##          Mean   :3.983   Mean   :5.015
##          3rd Qu.:4.884   3rd Qu.:7.131
##          Max.   :6.984   Max.   :8.984
```

Running a tree on this is unproblematic:

```
summary(cart.1 <- tree(Y ~ X1+X2, data=x))
```

```
##
## Classification tree:
## tree(formula = Y ~ X1 + X2, data = x)
## Variables actually used in tree construction:
## [1] "X2"
## Number of terminal nodes:  2
## Residual mean deviance:  0 = 0 / 498
## Misclassification error rate: 0 = 0 / 500
```

Now the problem

If

- I knit the document into an HTML file (like attached), the output is shown;
- I use each of these lines in the console, I will see the output there; **BUT**
- I run the following chunk from the editor with CTRL-SHIFT-ENTER or the play button, no output is provided;

```
cart.1$frame
```

```
##      var   n      dev yval splits.cutleft splits.cutright yprob.a yprob.b
## 1     X2 500 693.1472    a       <5.00939        >5.00939     0.5     0.5
## 2 <leaf> 250   0.0000    b                                        0.0     1.0
## 3 <leaf> 250   0.0000    a                                        1.0     0.0
```

```
cart.1[["frame"]]
```

```
##      var   n      dev yval splits.cutleft splits.cutright yprob.a yprob.b
## 1     X2 500 693.1472    a       <5.00939        >5.00939     0.5     0.5
## 2 <leaf> 250   0.0000    b                                        0.0     1.0
## 3 <leaf> 250   0.0000    a                                        1.0     0.0
```

```
cart.1[[1]]
```

```
##      var   n      dev yval splits.cutleft splits.cutright yprob.a yprob.b
## 1     X2 500 693.1472    a       <5.00939        >5.00939     0.5     0.5
## 2 <leaf> 250   0.0000    b                                        0.0     1.0
## 3 <leaf> 250   0.0000    a                                        1.0     0.0
```

One time, I saw the following error message in the editor pane:

```
Registered S3 method overwritten by 'cli':
method     from
print.tree tree
```

But I wasn't able to reliably reporduce that one.

However, each of those lines will produce output when I copy and paste it into the console – why??

```
xfun::session_info()
```

```
## R version 4.1.2 (2021-11-01)
## Platform: x86_64-pc-linux-gnu (64-bit)
## Running under: Pop!_OS 21.10
##
## Locale:
##   LC_CTYPE=en_US.UTF-8       LC_NUMERIC=C
##   LC_TIME=en_US.UTF-8        LC_COLLATE=en_US.UTF-8
##   LC_MONETARY=en_US.UTF-8    LC_MESSAGES=en_US.UTF-8
##   LC_PAPER=en_US.UTF-8       LC_NAME=C
##   LC_ADDRESS=C               LC_TELEPHONE=C
##   LC_MEASUREMENT=en_US.UTF-8 LC_IDENTIFICATION=C
##
## Package version:
##   base64enc_0.1.3 bslib_0.3.1     digest_0.6.29   evaluate_0.14
##   fastmap_1.1.0   fs_1.5.2        glue_1.6.0      graphics_4.1.2
##   grDevices_4.1.2 highr_0.9       htmltools_0.5.2 jquerylib_0.1.4
##   jsonlite_1.7.2  knitr_1.37      magrittr_2.0.1  methods_4.1.2
##   R6_2.5.1        rappdirs_0.3.3  rlang_0.4.12    rmarkdown_2.11
##   sass_0.4.0      stats_4.1.2     stringi_1.7.6   stringr_1.4.0
##   tinytex_0.36    tools_4.1.2     tree_1.0-41     utils_4.1.2
##   xfun_0.29       yaml_2.2.1
```