Making the source code really reproducible

To make the do-file really reproducible, we have to make sure it does not access the data that is already loaded in Stata. Think about it, if you execute a do-file on a data that is already loaded and you have been working on it, can you ensure that re-executing the do-file creates the same results again? you might have done some changes outside of the do-file on the data - such as droping a record - which makes the results ireproducible.

The solution would be to **run the do-file in a cleared workspace** to ensure the do-file does not access the data that is already loaded. **MarkDoc** can take a do-file and execute the code in a cleared workspace and produce the dynamic document. This is a very different engine compared to rendering a smcl-log to a dynamic document.

If the do-file return an error, **MarkDoc** still create the dynamic document until the point the error occured. To run this do-file, first load the **auto** dataset in Stata. Then call `markdoc` to produce the dynamic document. You should get an error the `no variables defined`, which means your do-file does not load the data, although the data are loaded in your Stata.

```
. display "the next command will be an error"

    the next command will be an error


. regress price mpg

    no variables defined
    r(111);

    end of do-file
```