tVar

```
Tnit
require("../tVar.lua")
matrix = require("../matrix")
                                                     Math
Global tVar.
 numFormat = "%.3f"
                                                      t.Var.PI
 mathEnviroment = "align"
 debugMode = "off"
 outputMode = "RES" -- RES, RES EQ, RES EQ N
 numeration = true
New
                                                     Example
 tVar:New(0.04,"r {se}")
 tVec:New({10,2,7},"v {1}")
 tMat:New(\{\{10,2,5\},\{2,4,3\},\{7,4,3\}\},"a \{2\}")
Output
 :print() --abh. v OutputMode
 :outFull(number[bool],enviroment[bool])
 :outHalf([bool],[bool])
 :outVar([bool],[bool])
 :out() --nur Wert
Set [tVar]
 :setName([string])
 :setUnit([string])
 :clean(name[string]) --berechn. Schritte
 entf.
 Tipp: können verkettet werden
                                                      \end{luacode*}
```

Misc

```
[tVar]:bracR() --Runde Klammern
[tVar]:CRLF([string]) --neuwline, [string]
wird vor und nach Umbruch eingefügt
tVar.sqrt([tVar],[number])
[tMat]:T() --Transponieren
[tMatl:Det()
[tMat]:Inv()
[tVec]:crossP()
\begin{luacode*}
require("../tVar.lua")
matrix = require("../matrix")
numFormat = "%.2f"
outputMode = "RES EQ N"
numeration = false
sigma x = tVar:New(11.4,"\sigma {x}")
tau xy = tVar:New(2.43,"\tau {xy}")
sigma v = tVar.sgrt(sigma x^2+3*tau xy^2,2)
sigma v:setName("\\sigma {v}")
sigma v:setUnit("N/m^2")
sigma v:print()
```