A System for Formatting Tables

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The Goal

* Write publication-ready statistics tables

* Like goal of Stata's graphics

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- Write publication-ready statistics tables

  - Like goal of Stata's graphics

- Best has been the enemy of the good

  - Third complete rewrite of software

The tasks

* Complete control of:

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  * Table design

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  * Combining tables (merge and append)

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  * Table design

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  * Fonts, spacing, justification, etc.

The tasks

* Complete control of:

  * Table design

  * Combining tables (merge and append)

  * Fonts, spacing, justification, etc.

  * Output native Word & T$_E$X files

3 Main Table Types

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* Estimation results (outreg, estimates table)

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* Frequencies (tabulate)

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* Estimation results (outreg, estimates table)

* Frequencies (tabulate)

* Summary statistics (table, tabstat)

FRMTTABLE.ADO

FRMTTABLE.ADO

Text

Title

Column Titles

Stata Matrix
(of stats)

A[3,3]

	c1	c2	c3
r1	1	5	6
r2	2	7	8
r3	6	3	9

+

Row Titles

Numerical Formats, Brackets, Annotations

Notes

Text

FRMTTABLE.ADO

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FRMTTABLE.ADO

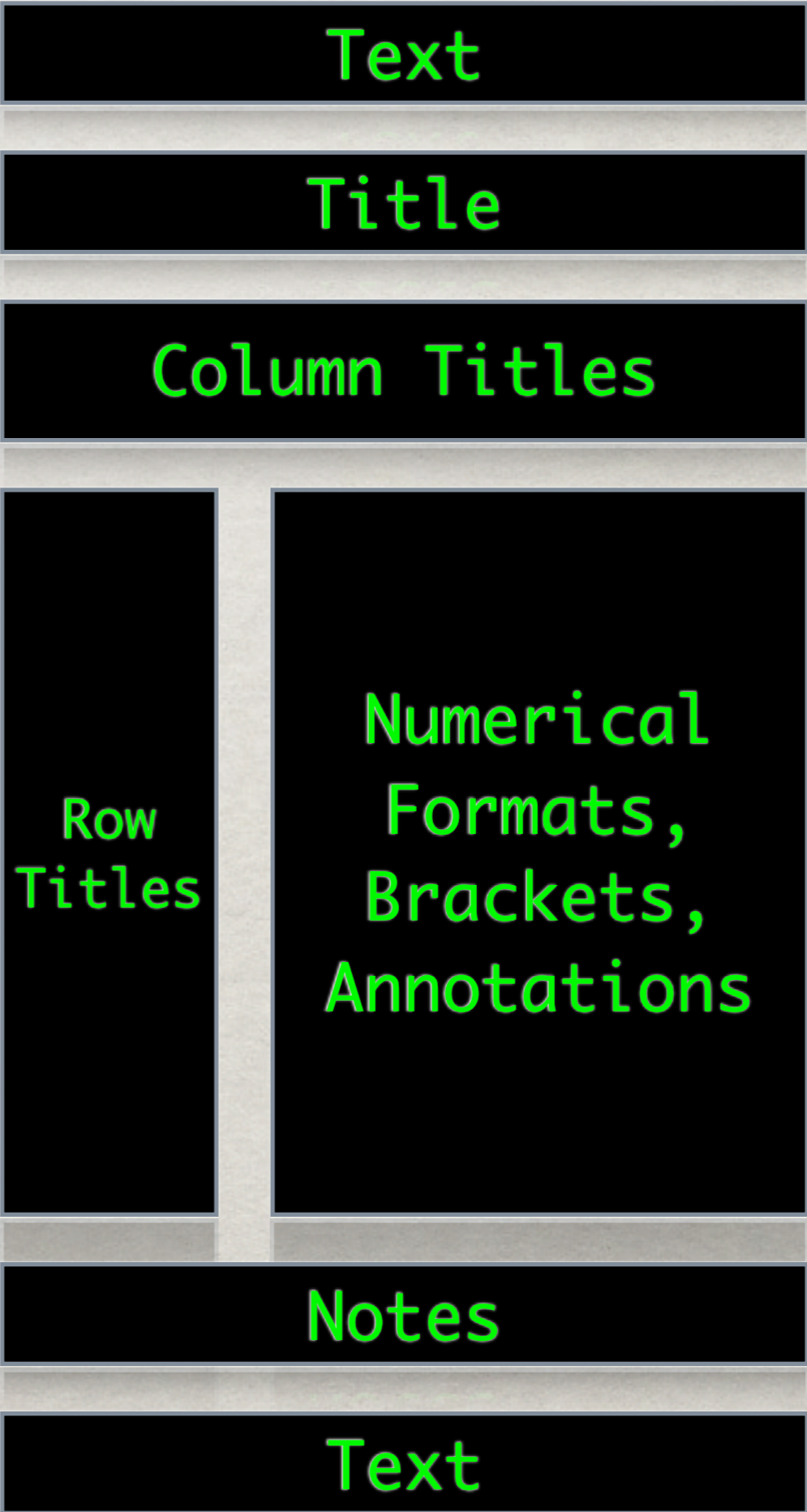Text

Title

Column Titles

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(of stats)

A[3,3]
```
      c1   c2   c3
r1     1    5    6
r2     2    7    8
r3     6    3    9
```
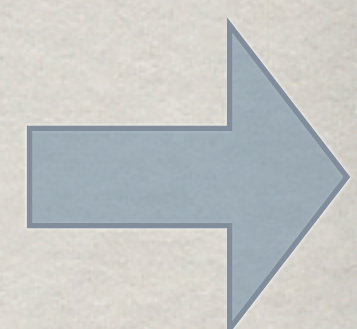
+

Row Titles

Numerical Formats, Brackets, Annotations
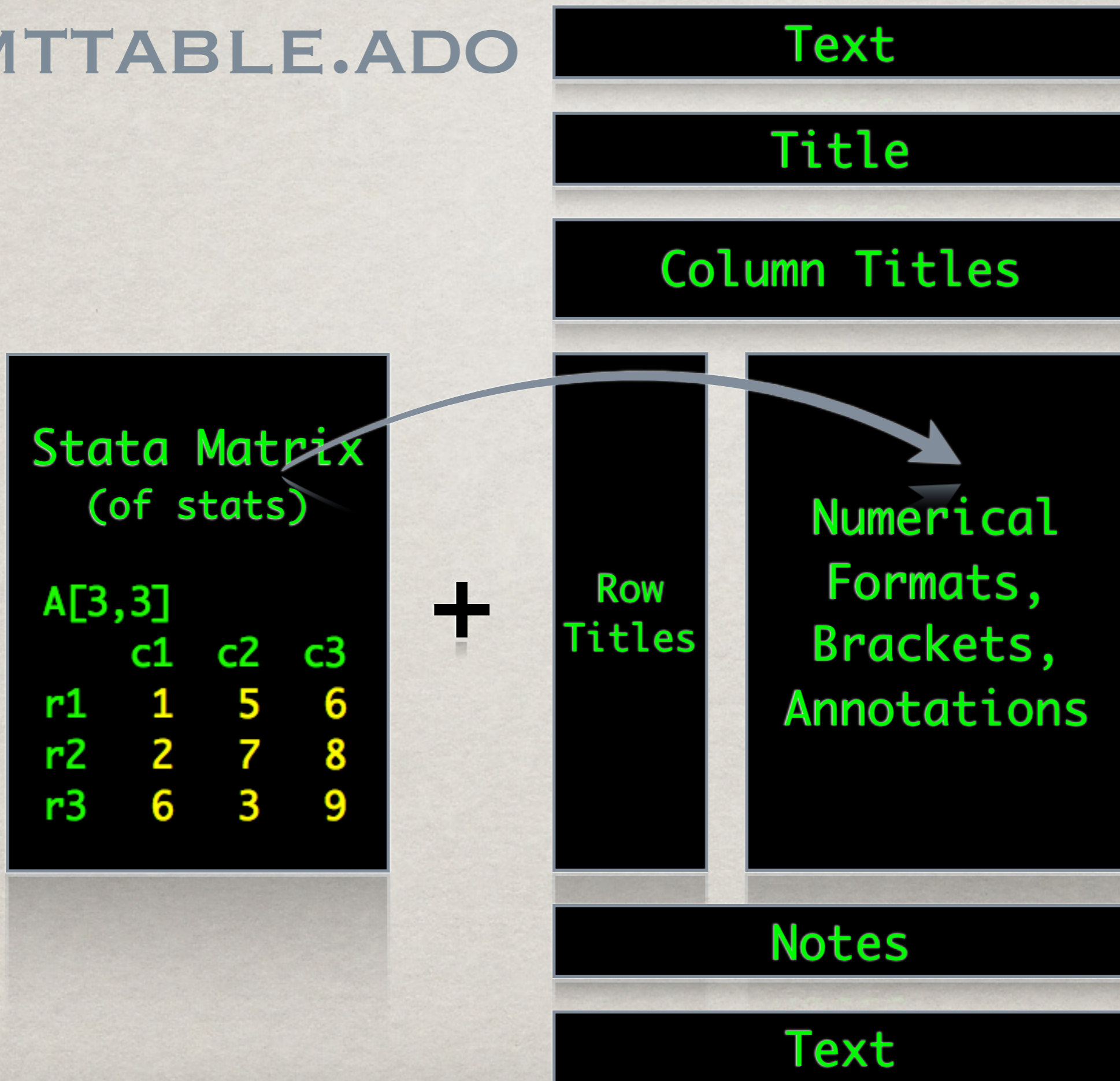
Notes

Text
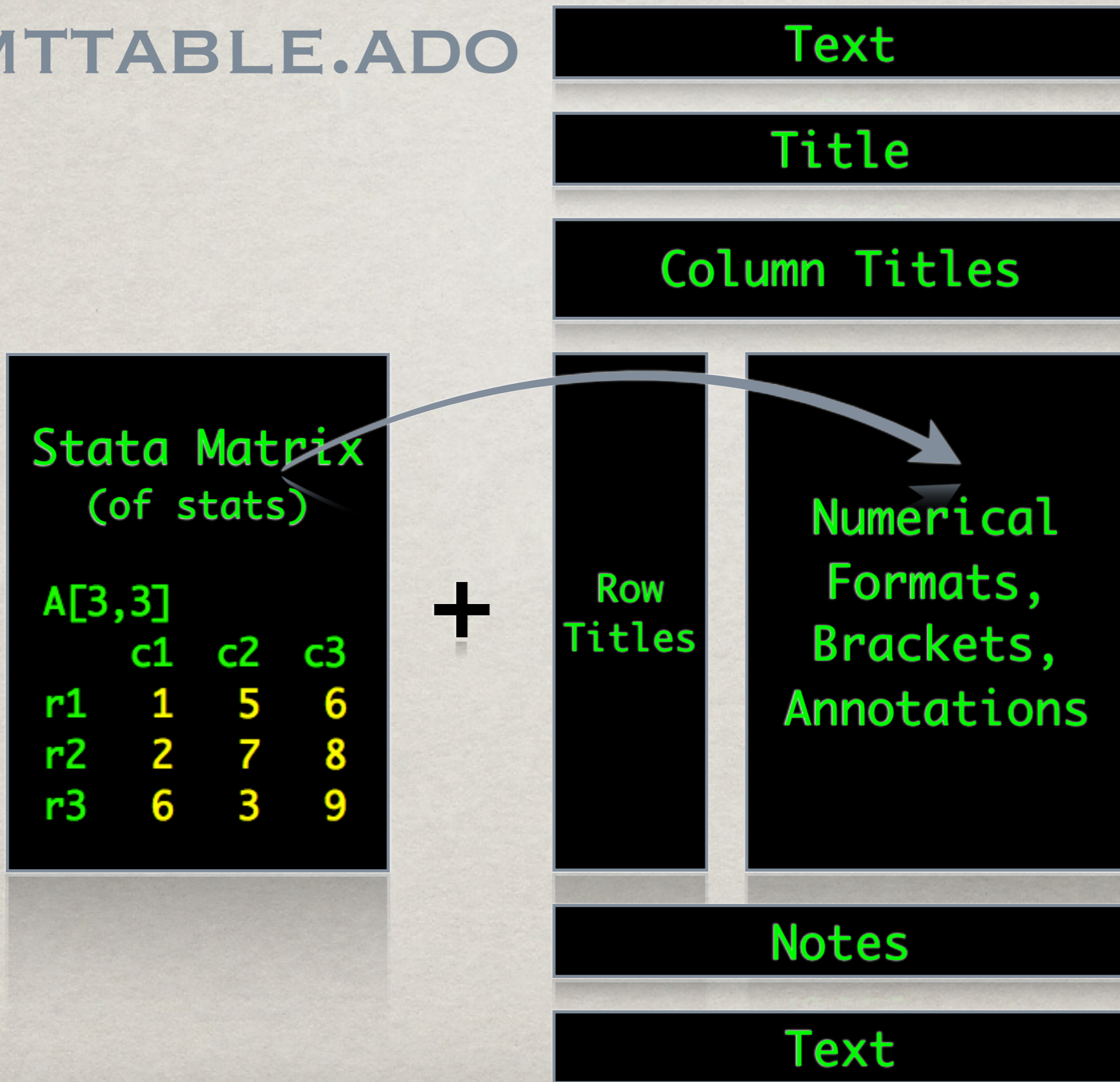
Create Mata Struct of String Matrices

struct FrmtTabl

Create Mata Struct of String Matrices

struct FrmtTabl

pretext

title

body

notes

posttext

struct FrmtTabl +

struct FrmtTabl   +   fonts

justification

lines

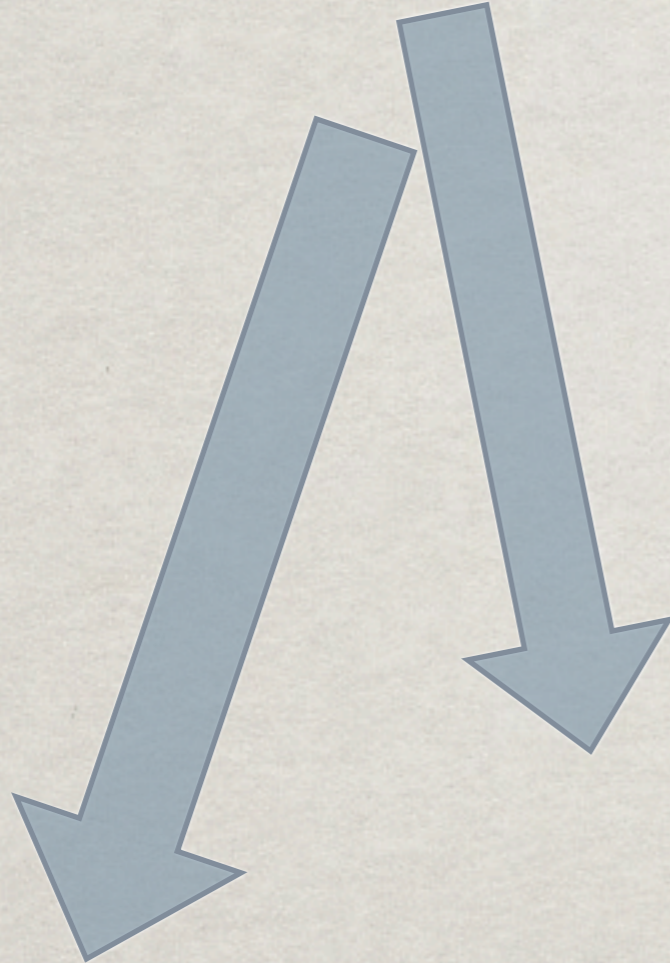spacing

etc.

struct FrmtTabl +

```
fonts
justification
lines
spacing
etc.
```
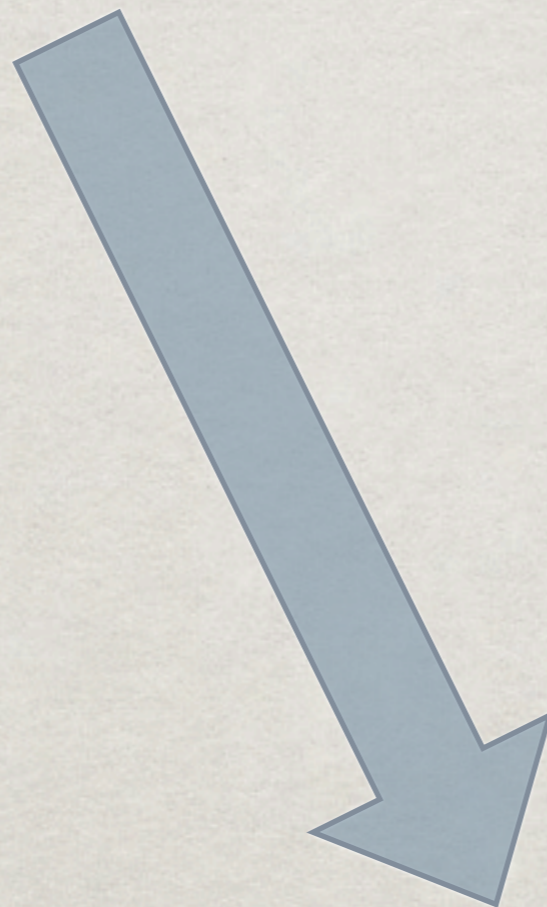
Word file

struct FrmtTabl + fonts
justification
lines
spacing
etc.
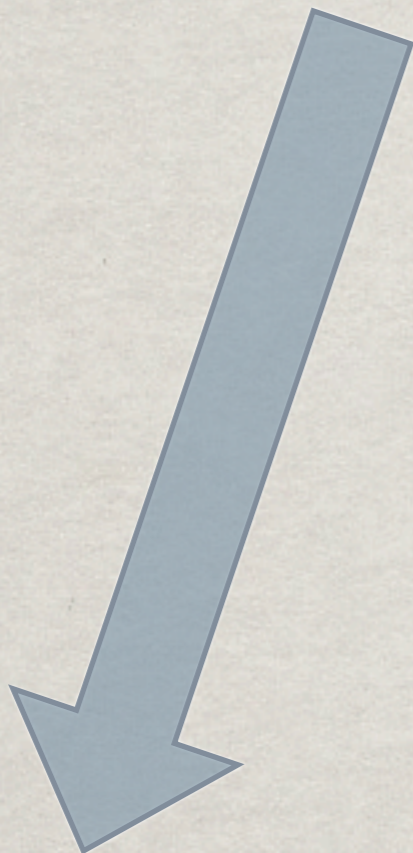
Word
file

or

T_EX
file

Table as Word document

Payoffs	Game 1	Game 2
Player 1	100	50
Player 2	0	50

Text formatting
fonts, footnotes, column span, verticle and horizontal lines

Payoffs

	Day 1		Day 2	
	Game 1	Game 2	Game 3	Game 4
Player 1	100	50	25	
Player 2	0	50[a]		90
Player 3			75	
Player 4				10
Total	100	100	100	100

[a] This player left without receiving payoff

outreg Word file

A regression

	Mileage (mpg)
Length (in.)	-0.078
	(1.38)
Weight (lbs.)	-0.004
	(2.41)*
Headroom (in.)	-0.051
	(0.09)
Constant	47.841
	(7.78)**
R^2	0.66
N	74

* $p<0.05$; ** $p<0.01$

OUTREG TₑX FILE

Marginal Effects & Confidence Intervals

Below Coefficients	Car type
Repair Record 1978	0.800**
	(0.174)
	[0.031 - 0.316]
Weight (lbs.)	-0.001**
	(-0.000)
	[-0.000 - -0.000]
Constant	0.185
N	69

* $p < 0.05$; ** $p < 0.01$

MULTIPLE STATISTICS

Horizontal Output like Stata's -estimates post-						
mpg	Coef.	Std. Err.	t	P>| t|	[95% Conf.	Interval]
length	-0.0784973	0.0569915	-1.38	0.17	-0.1921633	0.0351688
weight	-0.0038541	0.0015974	-2.41	0.02	-0.0070401	-0.0006682
headroom	-0.0514305	0.5554372	-0.09	0.93	-1.1592150	1.0563540
_cons	47.8407895	6.1492834	7.78	0.00	35.5764304	60.1051486

Regression results with summary statistics

	Mileage (mpg)	Means
Length (in.)	-0.078	187.93
	(1.38)	(22.27)
Weight (lbs.)	-0.004	3,019.46
	(2.41)*	(777.19)
Headroom (in.)	-0.051	2.99
	(0.09)	(0.85)
Mileage (mpg)		21.30
		(5.79)
Constant	47.841	
	(7.78)**	
R^2	0.66	
N	74	

* $p<0.05$; ** $p<0.01$

A frequency table for car type

Car type	Frequency
Domestic	52
Foreign	22
Total	74

Further Steps

* Complete documentation for frmttable.ado, outreg.ado, outtab.ado

* Set default formatting values for FrmtTabl
  (fonts, output file types, even titles)

* Write to .docx & .xlsx XML formats
  (colors, speadsheet, etc.)

Conclusion

* frmttable.ado provides presentation-ready formatting for Stata tables

  * Fast

  * Memory efficient

  * Easily extensible

Stata wishes

* Unicode support!

* Save r( ) matrices after table.ado

* Save r( ) matrices for varlist after summarize

* String matrices in Stata to pass to Mata