Tables in T_EX

- creating and manipulating tables in Word or Excel in a childplay
- to create a table in any flavour of T_EX you first need to study a dozen pages and keep cheating every time you want to create a new table
- even once you master the syntax, it's still an overkill for simple tables

```
\bTABLE
  \bTR \bTD so much \eTD \bTD overhead \eTD \eTR
  \bTR \bTD for so simple \eTD \bTD table \eTD \eTR
  \eTABLE
```

so much	overhead
for so simple	table

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```
\starttable[|1|1|]
    \HL \VL so much \VL overhead \VL\SR
    \HL \VL for so simple \VL table \VL\SR \HL
\stoptable
```

so much	overhead		
for so simple	table		

Tables in T_EX

- I asked Hans and Taco back in 2006 if there was a simpler way to do it
- And the answer was:

```
\startCSV
Sure, nothing
, easier than that!
\stopCSV
Sure nothing
easier than that!
```

(the empty page before this one was just a ConTEXt feature)

How to achieve that?

```
\defineseparatedlist
[TSV]
[separator=tab,
    before=\bTABLE,after=\eTABLE,
    first=\bTR,last=\eTR,
    left=\bTD,right=\eTD]
```

```
\startTSV
```

... \stopTSV

syntax – defineseparatedlist

```
\defineseparatedlist [.<sup>1</sup>.] [.., \frac{2}{=}, ..]
```

1 IDENTIFIER

2	separator	=	<pre>comma space spaces tab tabs(missing) TEXT</pre>
	quotechar	=	TEXT
	before	=	COMMAND TEXT
	after	=	COMMAND TEXT
	first	=	COMMAND TEXT
	last	=	COMMAND TEXT
	left	=	COMMAND TEXT
	right	=	COMMAND TEXT
	command	=	COMMAND
	setups	=	IDENTIFIER

quotechar should trigger 'nontexmode', setups was a MKII hack

syntax – setupseparatedlist

```
\setupseparatedlist [.^1.] [.., \stackrel{2}{=}, ..]
```

1 IDENTIFIER

- 2 inherits from \defineseparatedlist
- when we want to fix something tiny (change number of columns etc.)
- request: syntax only works under MKII

before/after, first/last, left/right

keyword	used for	examples of possible arguments			
before	beginning of table	\bTABLE	\starttable	\starttabulate	
after	end of table	\eTABLE	\stoptable	\stoptabulate	
first	beginning of row	\bTR	\NC or \VL		
last	end of row	\eTR	\NR		
left right	beginning of cell end of cell	\bTD \eTD	\NC		

User request

- It would be nice to have keywords (synonyms) that are easier to remember
 - starttable, stoptable, startrow, stoprow, startcell (column), stopcell
 - beforetable, aftertable, beforerow, afterrow, beforecell (column), aftercell
 - btable, etable, btr, etr, btd, etd
 - btable, etable, brow, erow, bcell, ecell

command=\command

```
\def\SendMe#1#2#3#4{%
```

\framed[align={flushleft,lohi},width=8cm,height=3.5cm]
{#1\crlf#2\crlf\crlf\uppercase{#3\crlf#4}}}

\defineseparatedlist[Address][separator={;},command=\SendMe]
\startAddress
NTG;Maasstraat 2;NL-5836 BB Sambeek;The Netherlands
Dante~e.V.;Postfach 101840;D-69008 Heidelberg;Germany

\stopAddress

NTG	Dante e.V.
Maasstraat 2	Postfach 101840
NL-5836 BB SAMBEEK	D-69008 HEIDELBERG
THE NETHERLANDS	GERMANY

Advantages

- some effort is needed for setup, but then tables are set semi-automatically
- one can use external files to create nice tables, or other arbitrary documents
- as a disadvantage it is not possible to create complex tables

Using a named list

There are three ways to use it:

- \startseparatedlist[NAME] ... \stopseparatedlist
- \startNAME ... \stopNAME
- \processseparatedfile[NAME][filename]

Feature requests

```
\startTSV % separator=tab
a b
b c
\stopTSV
\startMTSV % separator=tabs
a b
b c
\stopMTSV
```

a	b	
b		С
a	b	
b	С	

Feature requests

```
\defineseparatedlist
[CSV]
[separator={,},
quotechar={"},
before={\starttabulate[|r|c|1|]},after=\stoptabulate,
first=\NC,last=\NR,
left=,right=\NC]
```

\startCSV

```
some data,&,"a comma, hidden inside a quote"
quoted quotes,"""","need lots of ""quotes"""
\TeX\ commands,are $\lnot$,processed
UTF-8,should ¬,be a problem
\stopCSV
```

Weird behaviour in MKIV

Should this start a comment or not? What about blank lines?

\startCSV
a,b,c,d,e
%,%
b,,

a,b,c,d,e \stopCSV

a	b	С	d	e
b				
a	b	С	d	e

Feature requests

- inherit properties with \defineseparatedlist[name][nameofotherlist]
- fix quotechar
- treat data literally (do not implement any of T_EX's special sequences; the idea was to trigger that with quotechar and it works OK with MKII)
- allow quoted lines to span over multiple lines
- if T_EX commands are respected, multiple blank lines should create one empty line; if not, multiple empty lines
- if T_EX commands are respected, comments should be respected as well