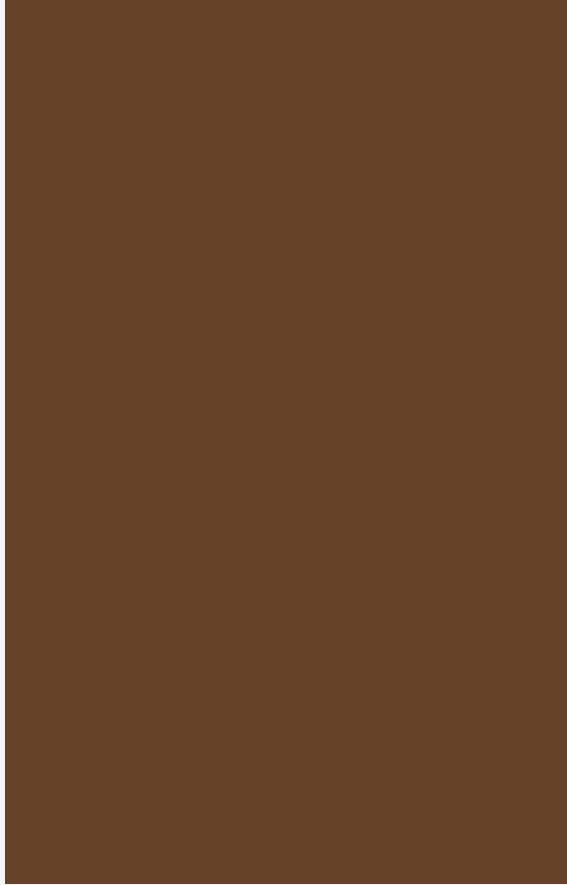


typesetting in columns



typesetting in columns

$\text{T}_{\text{E}}\text{X}$ was not made
to work in columns

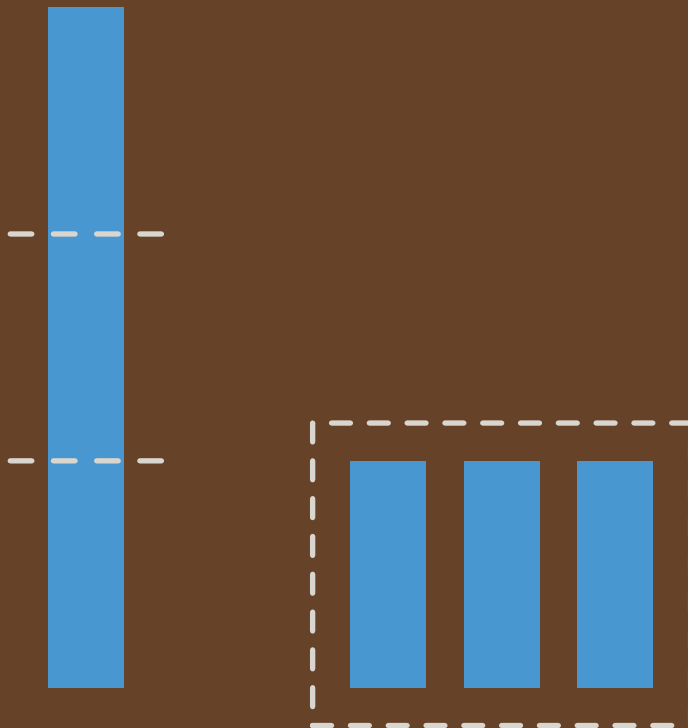
yet, it has for long
been possible
to use columns

how is this
possible?

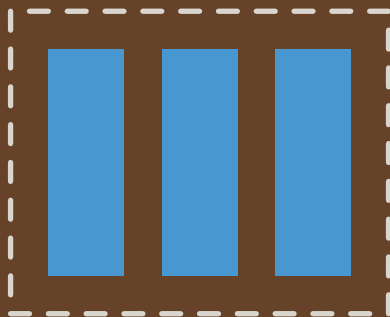
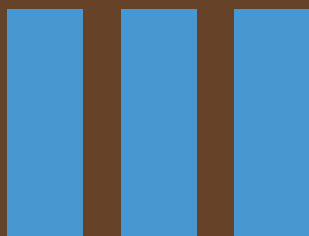
typesetting in columns

`mixedcolumns`

make one big
vbox and split
it with `vsplit`



typesetting in columns



pagecolumns

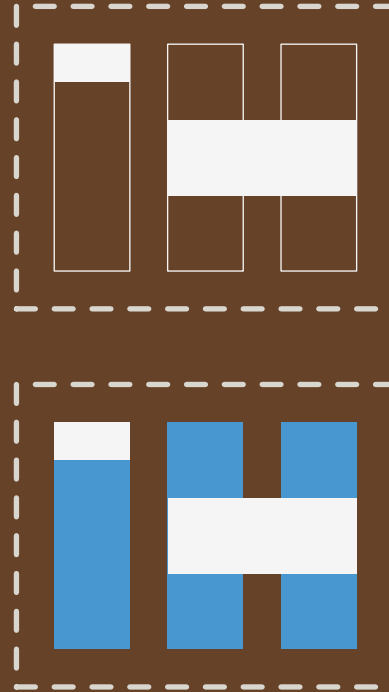
**combine several
T_EX pages on
one physical page**

typesetting in columns

old columnsets

work on the grid,
keep control of all
the occupied slots

add to remaining
slots with vsplit



things to consider

Many readers will skim over formulas on their first reading of your exposition. Therefore, your sentences should flow smoothly when all but the simplest formulas are replaced by “blah” or some other grunting noise.

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can we split
columns evenly?

things to consider

can we balance the last page?

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things to consider

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things to consider



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**can we handle
figures, tables
and other floats?**

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things to consider

even spanning
several columns?

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other grunting noise.
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0.001	6.907755	0.101	2.292635	0.201	1.604450	0.301	1.200645
0.002	6.214608	0.102	2.282782	0.202	1.599488	0.302	1.197328
0.003	5.809143	0.103	2.273026	0.203	1.594549	0.303	1.194022
0.004	5.521461	0.104	2.263364	0.204	1.589635	0.304	1.190728
0.005	5.298317	0.105	2.253795	0.205	1.584745	0.305	1.187444
0.006	5.115996	0.106	2.244316	0.206	1.579879	0.306	1.184170
0.007	4.961845	0.107	2.234926	0.207	1.575036	0.307	1.180908
0.008	4.828314	0.108	2.225624	0.208	1.570217	0.308	1.177655
0.009	4.710531	0.109	2.216407	0.209	1.565421	0.309	1.174414
0.010	4.605170	0.110	2.207275	0.210	1.560648	0.310	1.171183

things to consider

Footnote¹ Many readers will skim over formulas on their first reading of your exposition. Therefore, your sentences should flow smoothly when all but the simplest formulas are replaced by “blah” or some other grunting noise.

Footnote² Many readers will skim over formulas on their first reading of your exposition. Therefore, your sentences should flow smoothly when all but the simplest formulas are replaced by “blah” or some other grunting noise.

Footnote³ Many readers will skim over formulas on their first reading of your exposition. Therefore, your sentences should flow smoothly when all but the simplest formulas are replaced by “blah” or some other grunting noise.

¹ bar
² bar
³ bar

where to put footnotes?

Footnote⁴ Many readers will skim over formulas on their first reading of your exposition. Therefore, your sentences should flow smoothly when all but the simplest formulas are replaced by “blah” or some other grunting noise.

Footnote⁵ Many readers will skim over formulas on their first reading of your exposition. Therefore, your sentences should flow smoothly when all but the simplest formulas are replaced by “blah” or some other grunting noise.

⁴ bar
⁵ bar

Footnote⁶ Many readers will skim over formulas on their first reading of your exposition. Therefore, your sentences should flow smoothly when all but the simplest formulas are replaced by “blah” or some other grunting noise.

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⁶ bar
⁷ bar
⁸ bar

things to consider

can we handle headers . . .

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what about
adding content
to the margin?

. . . and footers?

things to consider

[illegible]

can

we

work

on

the

grid?

new columnsets

always work on the grid

Many readers will skim over formulas on their first reading of your exposition. Therefore, your sentences should flow smoothly when all but the simplest formulas are replaced by “blah” or some other grunting noise.

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internally work on spreads

Many readers will skim over formulas on their first reading of your exposition. Therefore, your sentences should flow smoothly when all but the simplest formulas are replaced by “blah” or some other grunting noise.

Many readers will skim over formulas on their first reading of your exposition.

place content like images first,
make pages out of remaining slots

new columnsets

**first assumption:
keep it simple!**

Therefore, your sentences should flow smoothly when all but the simplest formulas are replaced by “blah” or some other grunting noise.

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**we don't know
where we are
at the moment**

other grunting noise.

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**more features
added during work**

define the columnset

```
\definecolumnset  
  [bt]  
  [n=3,  
   limit=4,  
   page=right,  
   distance=0.5cm,  
   % setups=balance:bt,  
   % align={defaultwidows,defaultclubs,defaultbroken},  
  ]
```

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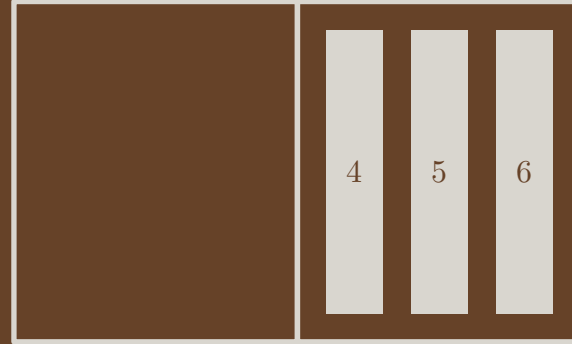
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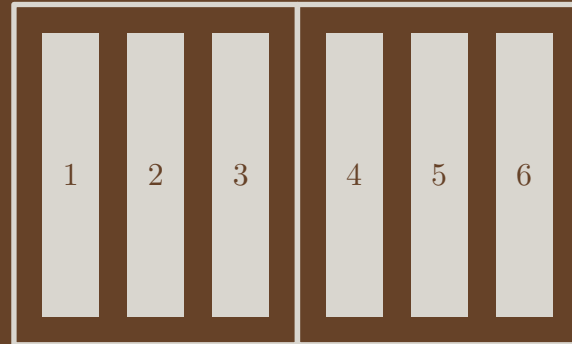
Many readers will skim over formulas on their first reading of your exposition. Therefore, your sentences should flow smoothly when all but the simplest formulas are replaced by “blah” or some other grunting noise.

define the columnset

page=right

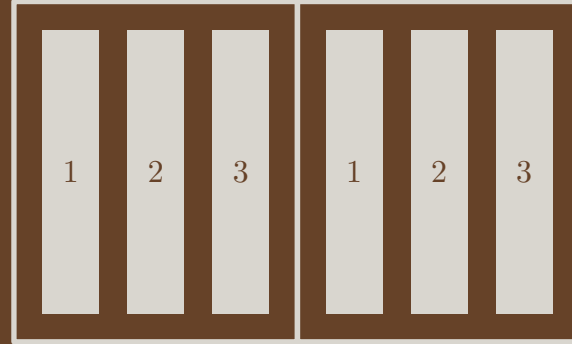


page=

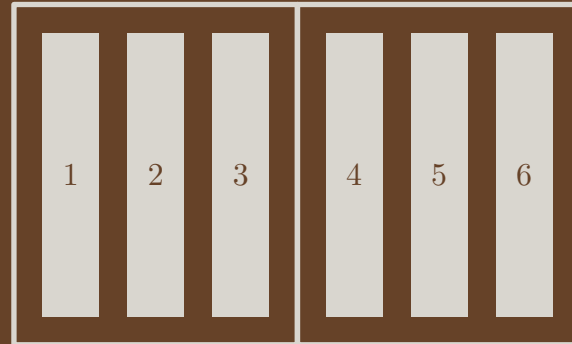


define the columnset

singlesided



doublesided



use the columnset

```
\startcolumnset[bt]
```

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```
\stopcolumnset
```

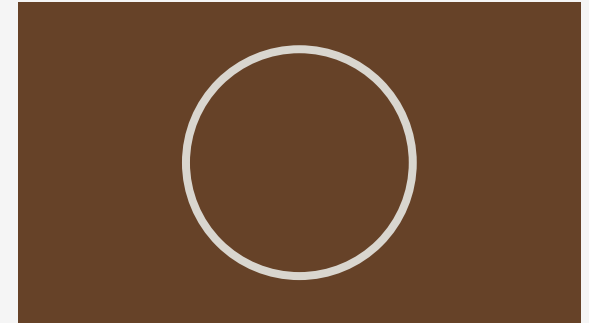
placing content in fixed slots

```
\startcolumnsetsheet[bt][1]
\startsetcolumnset
[c=3,r=8,ntop=1,nbottom=1]
\startframed[Fig][height=8gl]
\startMPcode
draw fullcircle
xsize 3cm
withpen pencircle scaled 3
withcolor "C:2" ;
\stopMPcode
\stopframed
\stopsetcolumnset
\stopcolumnsetsheet
```

Many readers will skim over formulas on their first reading of your exposition. Therefore, your sentences should flow smoothly when all but the simplest formulas are replaced by “blah” or some other grunting noise. Many readers will skim over formulas on their first reading of your exposition.

Therefore, your sentences should flow smoothly when all but the simplest formulas are replaced by “blah” or some other grunting noise. Many readers will skim over formulas on their first reading of your exposition. Therefore, your sentences should flow smoothly when all but the simplest formulas are replaced by “blah” or some other grunting noise. Many readers will skim over formulas on their first reading of your exposition. Therefore, your sentences should flow smoothly when all but the simplest formulas are replaced by “blah” or some other grunting noise. Many readers will skim over formulas on their first reading of your exposition. Therefore, your sentences should flow smoothly when all but the simplest formulas are replaced by “blah” or some other grunting noise.

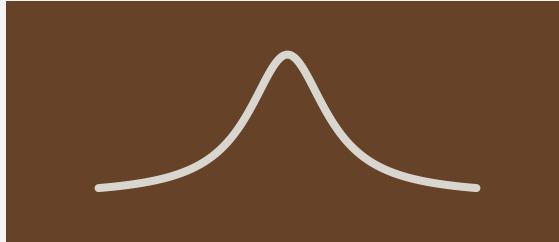
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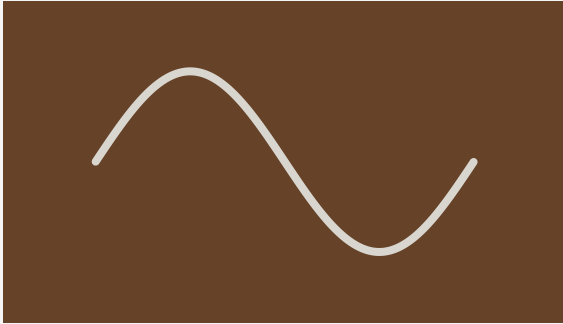
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placing content in fixed slots

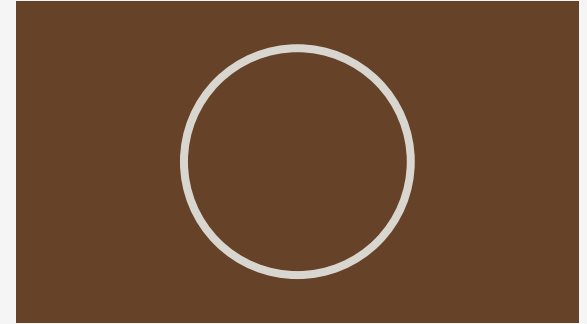
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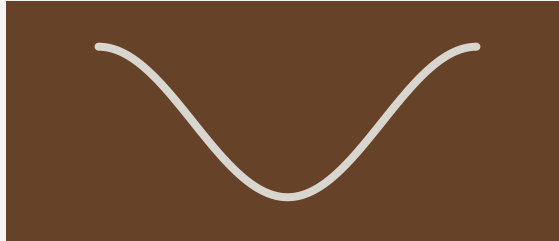
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placing content in fixed slots

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slots get reserved or occupied

```
\startcolumnsetsheet[bt][1]
```

```
\startsetcolumnset[c=3,r=1,nbottom=1]  
  \startframed[Fig]  
    this content has been placed first  
  \stopframed  
\stopsetcolumnset
```

```
\startsetcolumnset[c=3,r=6,ntop=1,nbottom=1]  
  \startframed[Fig]  
    this content will not show up  
  \stopframed  
\stopsetcolumnset
```

```
\reservecolumnset[c=2,r=1,nr=11]
```

```
\stopcolumnsetsheet
```

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this content has
been placed first

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work on sheet or spread

```
\startcolumnsetspreadsheets[bt][1]
\startsetcolumnset[c=5,r=17,ntop=1]
  \startframed[Fig]
    where will this content end up?
  \stopframed
\stopsetcolumnset
\stopcolumnsetspreadsheets
```

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work on sheet or spread

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where will this
content end up?

how about footnotes?

`\setupnotes`

`[width=\columnsetspanwidth{1}]`

Many readers will skim over formulas on their first reading of your exposition. Therefore, your sentences should flow smoothly when all but the simplest formulas are replaced by “blah” or some other grunting noise.⁹

Many readers will skim over formulas on their first reading of your exposition. Therefore, your sentences should flow smoothly when all but the simplest formulas are replaced by “blah” or some other grunting noise.¹⁰

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Many readers will skim over formulas on their first reading of your exposition. Therefore, your sentences should flow smoothly when all but the simplest formulas are replaced by “blah” or some other grunting noise.¹³

Many readers will skim over formulas on their first reading of your exposition.

works fine on simple
page setups but . . .

Therefore, your sentences should flow smoothly when all but the simplest formulas are replaced by “blah” or some other grunting noise.¹⁴

Many readers will skim over formulas on their first reading of your exposition. Therefore, your sentences should flow smoothly when all but the simplest formulas are replaced by “blah” or some other grunting noise.¹⁵

Many readers will skim over formulas

⁹ This is a footnote.

¹⁰ This is in fact an even longer footnote. Maybe it will run over two rows?

¹¹ This is a footnote.

¹² This is in fact an even longer footnote. Maybe it will run over two rows?

¹³ This is a footnote.

¹⁴ This is in fact an even longer footnote. Maybe it will run over two rows?

¹⁵ This is a footnote.

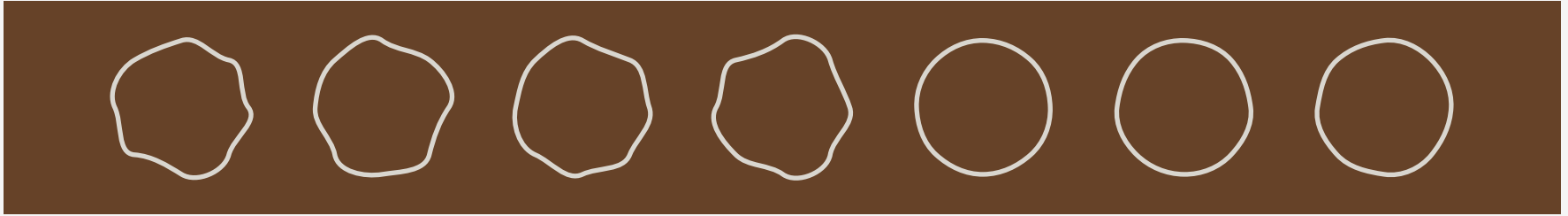
how about footnotes?

on their first reading of your exposition. Therefore, your sentences should flow smoothly when all but the simplest formulas are replaced by “blah” or some

other grunting noise.¹⁷ Many readers will skim over formulas on their first reading of your exposition.

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¹⁷ This is a footnote.



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¹⁶ This is in fact an even longer footnote. Maybe it will run over two rows?

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**...remember we
work in slots!**

can we balance the columns?

```
\definesubcolumnset[bt][bts][*]
```

```
\dorecurse{7}{%  
  \startsubcolumnset[bts]  
    \samplefile{knuthmath}  
  \stopsubcolumnset  
  \balancesubcolumnsets  
}
```

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yes, we can!

wait, subcolumnsets?

```
\definesubcolumnset[bt][bts-one] [1,4]
\definesubcolumnset[bt][bts-two] [2,5]
\definesubcolumnset[bt][bts-three] [3,6]

\startsubcolumnset[bts-one]
  \dorecurse{2}{\samplefile{tufte}\par}
\stopsubcolumnset

\startsubcolumnset[bts-two]
  \dorecurse{5}{\italic \samplefile{ward}\par}
\stopsubcolumnset

\startsubcolumnset[bts-three]
  \setupcolors[textcolor=C:3]
  \dorecurse{7}{\samplefile{knuthmath}\par}
\stopsubcolumnset

\flushsubcolumnsets
```

We thrive in information—thick worlds because of our marvelous and everyday capacity to select, edit, single out, structure, highlight, group, pair,

The Earth, as a habitat for animal life, is in old age and has a fatal illness. Several, in fact. It would be happening whether humans had ever evolved or not.

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wait, subcolumnsets?

merge, harmonize, synthesize, focus, organize, condense, reduce, boil down, choose, categorize, catalog, classify, list, abstract, scan, look into, idealize, isolate, discriminate, distinguish, screen, pigeonhole, pick over, sort, integrate, blend, inspect, filter, lump, skip, smooth, chunk, average, approximate, cluster, aggregate, outline, summarize, itemize, review, dip into, flip through, browse, glance into, leaf through, skim, refine, enumerate, glean, synopsise, winnow the wheat from the chaff and separate the sheep from the goats.

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isolate, discriminate, distinguish, screen, pigeonhole, pick over, sort, integrate, blend, inspect, filter, lump, skip, smooth, chunk, average, approximate, cluster, aggregate, outline, summarize, itemize, review, dip into, flip through, browse, glance into, leaf through, skim, refine, enumerate, glean, synopsise, winnow the wheat from the chaff and separate the sheep from the goats.

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it is a challenge to stay on grid

15. (This procedure maintains four integers (A, B, C, D) with the invariant meaning that “our remaining job is to output the continued fraction for $(Ay + B)/(Cy + D)$, where y is the input yet to come.”) Initially set $j \leftarrow k \leftarrow 0$, $(A, B, C, D) \leftarrow (a, b, c, d)$; then input x_j and set $(A, B, C, D) \leftarrow (Ax_j + B, A, Cx_j + D, C)$, $j \leftarrow j + 1$, one or more times until $C + D$ has the same sign as C . (When $j > 1$ and the input has not terminated, we know that $1 < y < \infty$; and when $C + D$ has the same sign as C we know therefore that $(Ay + B)/(Cy + D)$ lies between $(A + B)/(C + D)$ and A/C .) Now comes the general step: If no integer lies strictly between $(A + B)/(C + D)$ and A/C , output $X_k \leftarrow \lfloor A/C \rfloor$, and set $(A, B, C, D) \leftarrow (C, D, A - X_k C, B - X_k D)$, $k \leftarrow k + 1$; otherwise input x_j and set $(A, B, C, D) \leftarrow (Ax_j + B, A, Cx_j + D, C)$,

$j \leftarrow j + 1$. The general step is repeated ad infinitum. However, if at any time the *final* x_j is input, the algorithm immediately switches gears: It outputs the continued fraction for $(Ax_j + B)/(Cx_j + D)$, using Euclid's algorithm, and terminates.

both inline and
displayed math are
difficult to handle

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$$f(x) = f(a) + \int_a^x f'(t) dt$$

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$$\begin{aligned} f(x) &= f(a) + \int_a^x f'(t) dt \\ &= \frac{d}{dx} \int_a^x f(t) dt \end{aligned}$$

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section heads
are typically set
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**see the details manual
for more alternatives**