

The package TooYoung

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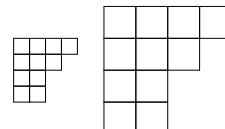
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Abstract

The short package TooYoung (no more than 150 lines) provides an easy way to draw Young tableaux. This passage is to present all the functions of this package.

One can also input Young diagrams by its type through `\yng` and `\Yng`.

`\yng(4,3,2,2)` `\Yng(4,3,2,2)`



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1 Boxes

One can make Young tableaux by `\Young` as following.

`\Young{1&2&3&4\\5&6&7\\8&9}`

1	2	3	4
5	6	7	
8	9		

One can convert it into French convention by using `\FYoung`.

`\FYoung{1&2&3&4\\5&6&7\\8&9}`

8	9		
5	6	7	
1	2	3	4

If one suddenly wants to convert all young diagrams in his article, use `\Frenchstyletrue` globally.

One can make spaces by using square brackets as following.

`\Young{[]&2&3&4\\5&6&[7]\\8&9}`

	2	3	4
5	6	7	
8	9		

Exercise 1 *Type this RobinsonC-Schensted-CKnuth Algorithm*

1	2	2	3	←	2
2	3	5	5		
4	4	6			
5	6				

2 Options

1 The size of boxes and the thickness of lines are customizable.

2 `\Youngwidth` 1pc
`\Youngheight` 1pc
`\Youngvline` 0.2pt
`\Younghline` 0.2pt

Exercise 2 *Type this Young tabloid.*

1	2	3	4
5	6	7	
8	9		

The font in the box can be easily changed by redefine `\Fontinbox`.

`\def\Fontinbox#1{\sf#1}`
`\Young{a&b\\c}`

a	b
c	

Exercise 3 *Type this periodic table.*

H							He
Li	B	Be	C	N	O	F	Ne
Na	Mg	Al	Si	P	S	Cl	Ar
K	Ca						

Exercise 4 *How to adjust this ugly tableaux?*

`\Young{\displaystyle}`
`\frac{1}{2}`

1
2

The commend `\Young` and `\FYoung` is protected in the environment `array`, so it adds satisfactory space and adjusts to suitable depth. Sometimes, use more original `\young` and `\fyoung` may be helpful.

