

Scrabble [en]

A bord of Scrabble,
with words or not.

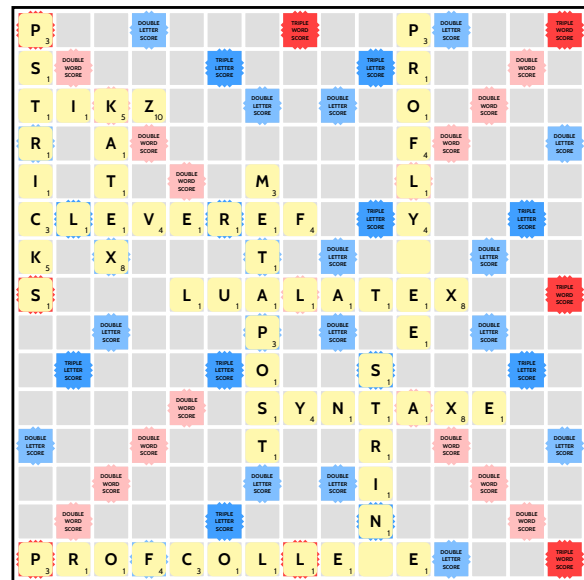
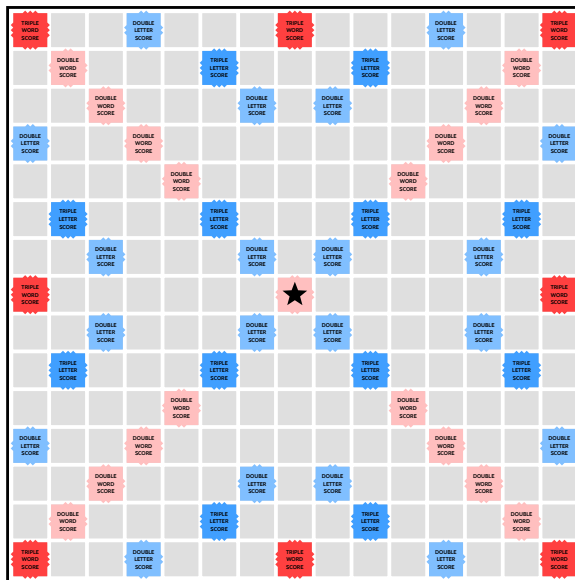
Scrabble™, from Hasbro™ and Mattel™.

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<https://github.com/cpierquet/Scrabble>

- Some commands to display a Scrabble board, with or without words.
- English, French, German or Spanish version for points and labels.
- Idas from <https://tex.stackexchange.com/questions/194780/tikz-drawing-a-rectangle-with-spikes-on-borders>



Thanks to french members of group  "Coin L^AT_EX" for help an aides !

L^AT_EX

pdfL^AT_EX

LuaL^AT_EX

TikZ

T_EXLive

MIK_TE_X

History

v0.1.1 : Option [fr] pour french commands

v0.1 : Initial version

Introduction

1 The Scrabble package

1.1 Source

Some ideas are from <https://tex.stackexchange.com/questions/194780/tikz-drawing-a-rectangle-with-spikes-on-borders>, with proposition from Mark Wibrow.

This package is *build* within styles and ideas from Mark Wibrow.

1.2 Loading of the package, used packages

The package Scrabble loads within the preamble :

```
\usepackage{Scrabble}
```

Code \LaTeX

It's mostly compatible with latex, pdflatex, lualatex or xelatex compilation !

It loads the following packages and libraries :

- tikz with `\calc` with the tikzlibraries `\calc` and `\shapes.geometric` ;
- pgf and pgffor ;
- xstring ;
- xparse ;
- simplekv.

1.3 The package itself

The idea is to, thanks to TikZ, propose commands or environments to display a Scrabble™ board :

- *independant* ;
- in an *environnement* with words.

```
%independant command for the empty board  
\ScrabbleBoard<language>[keys]
```

```
%environmentt with word(s)  
\begin{EnvScrabble}<language>[keys]  
  \ScrabblePutWord[orientation]{l,e,t,t,e,r,s}{coordinates of the beginning cell}  
\end{EnvScrabble}
```

Code \LaTeX

1.4 Languages

The commands, environments et keys are in english, but cells can be displayed in :

- english ;
- french ;
- german ;
- spanish.

2 Commands, keys and options

2.1 The board, standalone

The first argument, *optional*, between $\langle . . . \rangle$ is the $\langle \text{language} \rangle$ of the display, form the list :

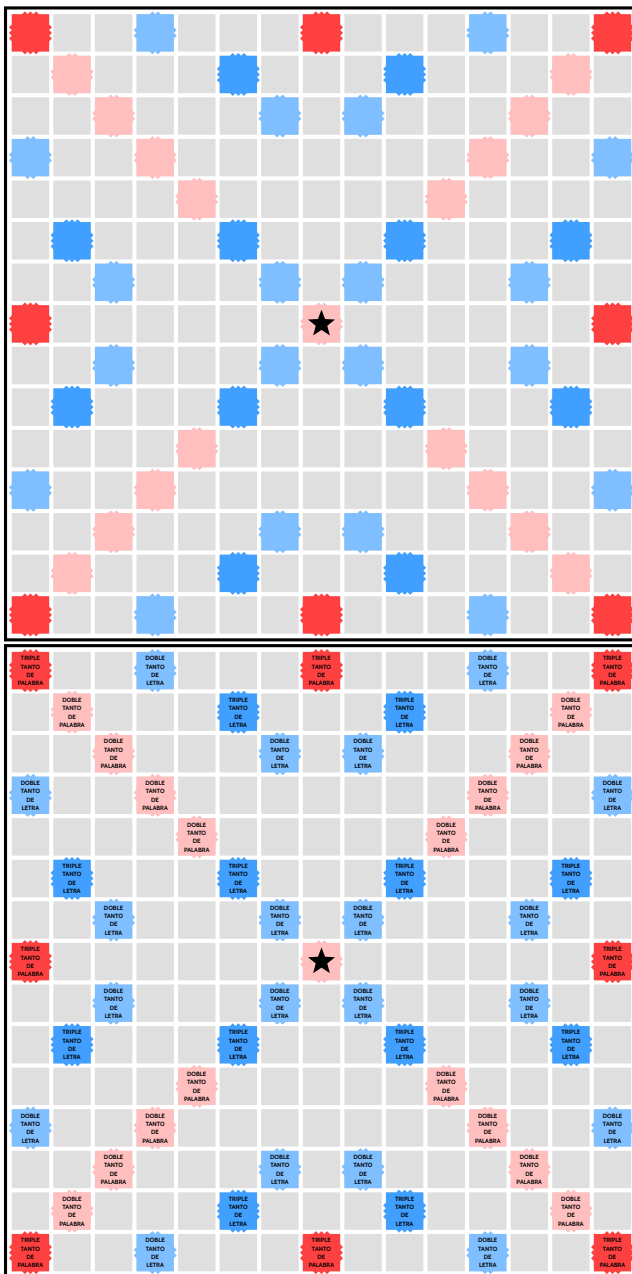
$\langle \text{EN} \rangle$ (english, default), $\langle \text{FR} \rangle$ (french), $\langle \text{GE} \rangle$ (german) et $\langle \text{SP} \rangle$ (spanish).

The second argument, *optional*, between $[. . .]$ give the $\langle \text{keys} \rangle$:

- $\langle \text{Scale} \rangle$ for the display (the initial unit is 1 cm) ; default : $\langle 1 \rangle$
- the boolean $\langle \text{Border} \rangle$ pour print a border outside the board ; default : $\langle \text{true} \rangle$
- the boolean $\langle \text{Labels} \rangle$ to print *names* of the special cells ; default : $\langle \text{true} \rangle$
- the boolean $\langle \text{Help} \rangle$ pour print numbers to reperate th cells ; default : $\langle \text{false} \rangle$

```
%board without cell's names
\ScrabbleBoard[Labels=false,Scale=0.55]\\
%board in spanish
\ScrabbleBoard<SP>[Scale=0.55,Cadre=false]
```

Code \LaTeX



2.2 The board with words

Here we can use the environment with the specific command in order to print words on the board.

For the *environment*, the options are the same as for the independant command !

For putting word on the board :

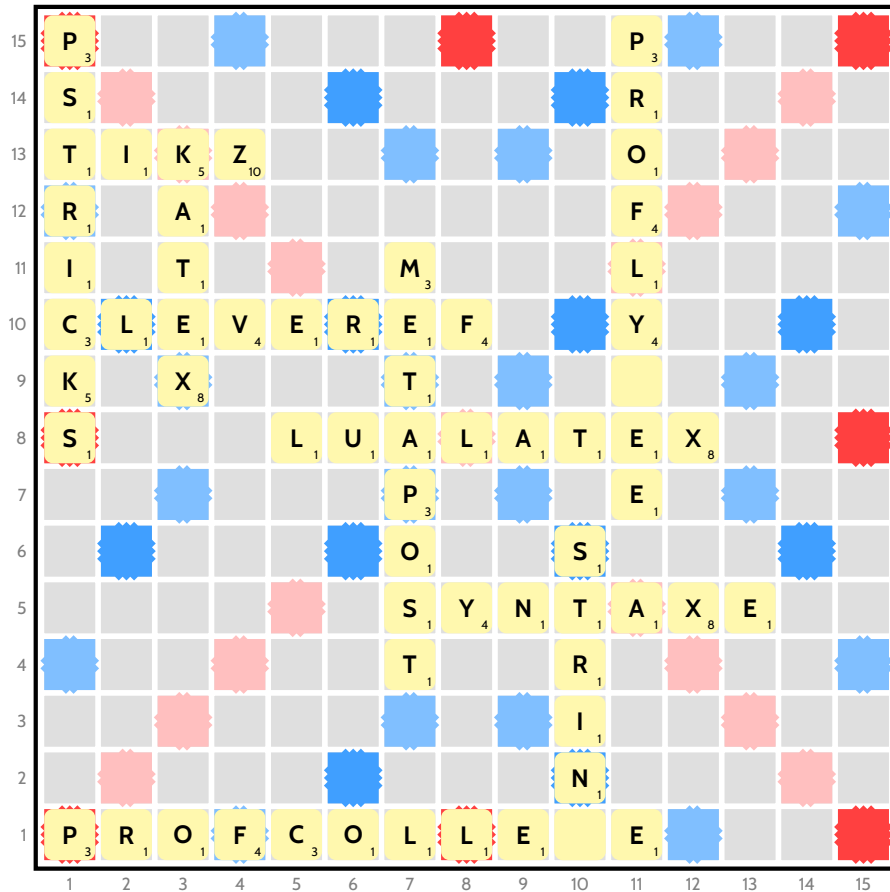
- the first argument, *optional*, between `[...]` is the orientation of the word, `(H)` (by default) or `(V)` ;
- the second argument, *mandatory*, between `{...}`, is the list of the letters, separate by " , " ;
- the last argument, *mandatory*, between `{...}`, is the coordinates of the first cell for first lettre (the cell (1;1) is south-west corner).

Observation 1 : the chosen language will display the right points in the til !

Observation 2 : the *white* (or *joker*) is coded by the character `*`.

Code `LATX`

```
\begin{EnvScrabble}[Scale=0.75,Labels=false,Help]
  \ScrabblePutWord{T,I,K,Z}{1,13}
  \ScrabblePutWord[V]{P,S,T,R,I,C,K,S}{1,15}
  \ScrabblePutWord[V]{K,A,T,E,X}{3,13}
  \ScrabblePutWord{C,L,E,V,E,R,E,F}{1,10}
  \ScrabblePutWord[V]{M,E,T,A,P,O,S,T}{7,11}
  \ScrabblePutWord{L,U,A,L,A,T,E,X}{5,8}
  \ScrabblePutWord[V]{P,R,O,F,L,Y,*,E,E}{11,15}
  \ScrabblePutWord{P,R,O,F,C,O,L,L,E,*,E}{1,1}
  \ScrabblePutWord{S,Y,N,T,A,X,E}{7,5}
  \ScrabblePutWord[V]{S,T,R,I,N,*}{10,6}
\end{EnvScrabble}
```

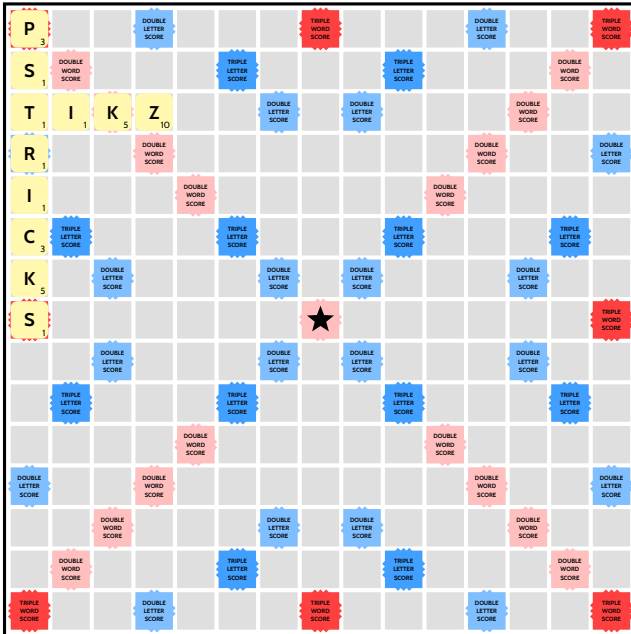


```

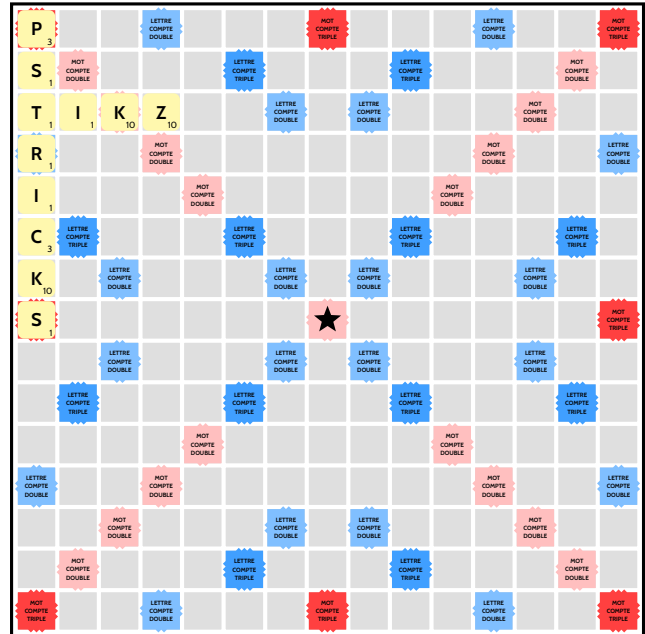
\begin{EnvScrabble}<EN>[Scale=0.55]
  \ScrabblePutWord{T,I,K,Z}{1,13}
  \ScrabblePutWord[V]{P,S,T,R,I,C,K,S}{1,15}
  \draw (7,15) node[font=\LARGE\sffamily] {English version} ;
\end{EnvScrabble}~~~
\begin{EnvScrabble}<FR>[Scale=0.55]
  \ScrabblePutWord{T,I,K,Z}{1,13}
  \ScrabblePutWord[V]{P,S,T,R,I,C,K,S}{1,15}
  \draw (7,15) node[font=\LARGE\sffamily] {French version} ;
\end{EnvScrabble}~~~
\begin{EnvScrabble}<GE>[Scale=0.55]
  \ScrabblePutWord{T,I,K,Z}{1,13}
  \ScrabblePutWord[V]{P,S,T,R,I,C,K,S}{1,15}
  \draw (7,15) node[font=\LARGE\sffamily] {German version} ;
\end{EnvScrabble}~~~
\begin{EnvScrabble}<SP>[Scale=0.55]
  \ScrabblePutWord{L,A,T,E,X}{1,14}
  \ScrabblePutWord[V]{M,A,D,R,I,D}{2,15}
  \draw (7,15) node[font=\LARGE\sffamily] {Spanish vesion} ;
\end{EnvScrabble}

```

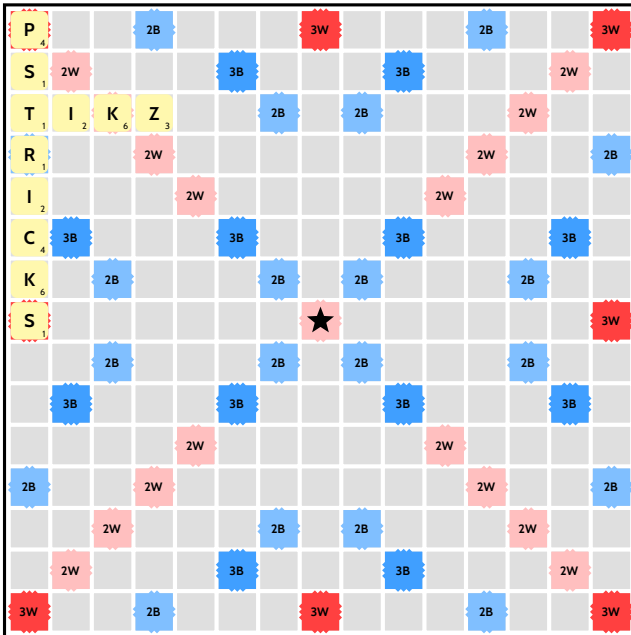
English version



French version



German version



Spanish vesion

