

# Scrabble [en]

A board of Scrabble,  
with words or not.

Scrabble™, from Hasbro™ and Mattel™.

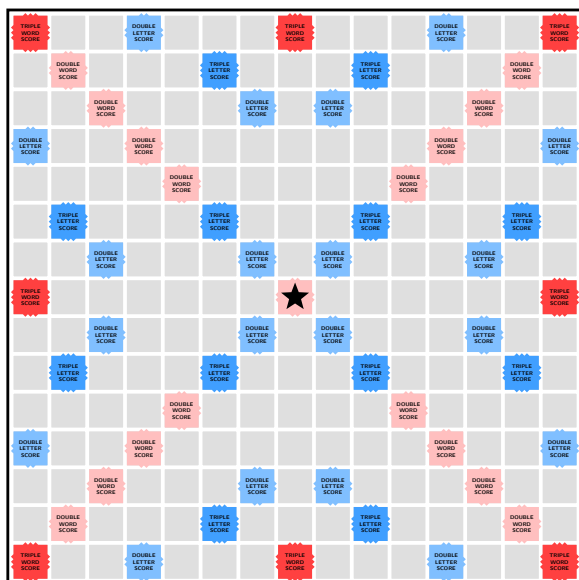
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<https://github.com/cpierquet/Scrabble>

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



Thanks to french members of group "Coin L<sup>A</sup>T<sub>E</sub>X" for help and ideas !

L<sup>A</sup>T<sub>E</sub>X

pdfL<sup>A</sup>T<sub>E</sub>X

LuaL<sup>A</sup>T<sub>E</sub>X

TikZ

T<sub>E</sub>XLive

MiK<sub>T</sub>E<sub>X</sub>

# History

v0.1.2 : Key <ScaleLabels> to modify scale of the cell's names  
v0.1.1 : Option [fr] for 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 and 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 `<...>` is the **<langage>** of the display, form the list :

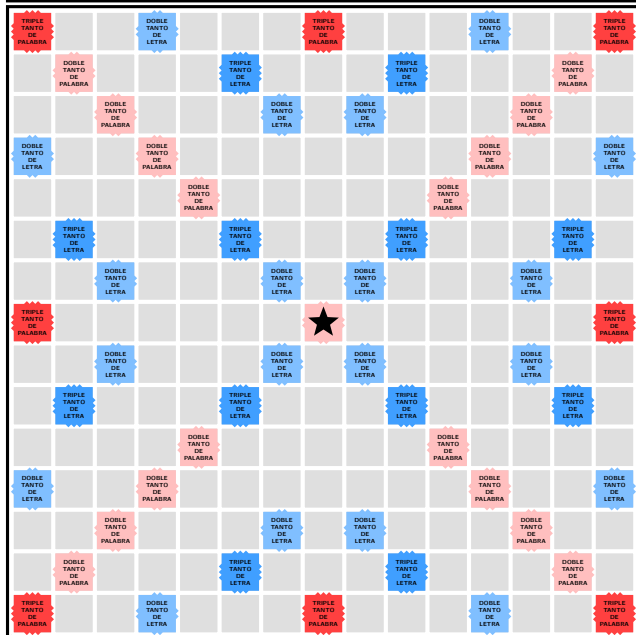
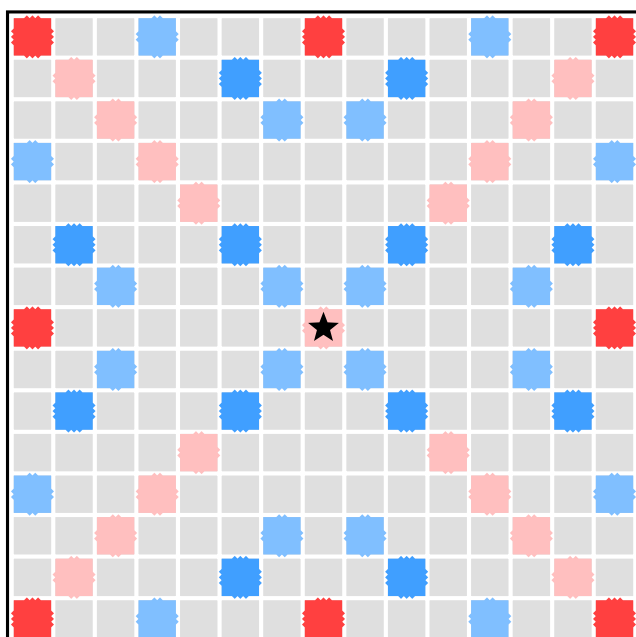
**<EN>** (english, default), **<FR>** (french), **<GE>** (german) et **<SP>** (spanish).

The second argument, *optional*, between `[...]` give the **<keys>** :

- **<Scale>** for the display (the initial unit is 1 cm) ; default : **<1>**
- **<ScaleLabels>** for the cell's names ; défaut : **<1>**
- the boolean **<Border>** pour print a border outside the board ; default : **<true>**
- the boolean **<Labels>** to print *names* of the special cells ; defalut : **<true>**
- the boolean **<Help>** pour print numbers to reperate th cells ; default : **<false>**

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

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 :

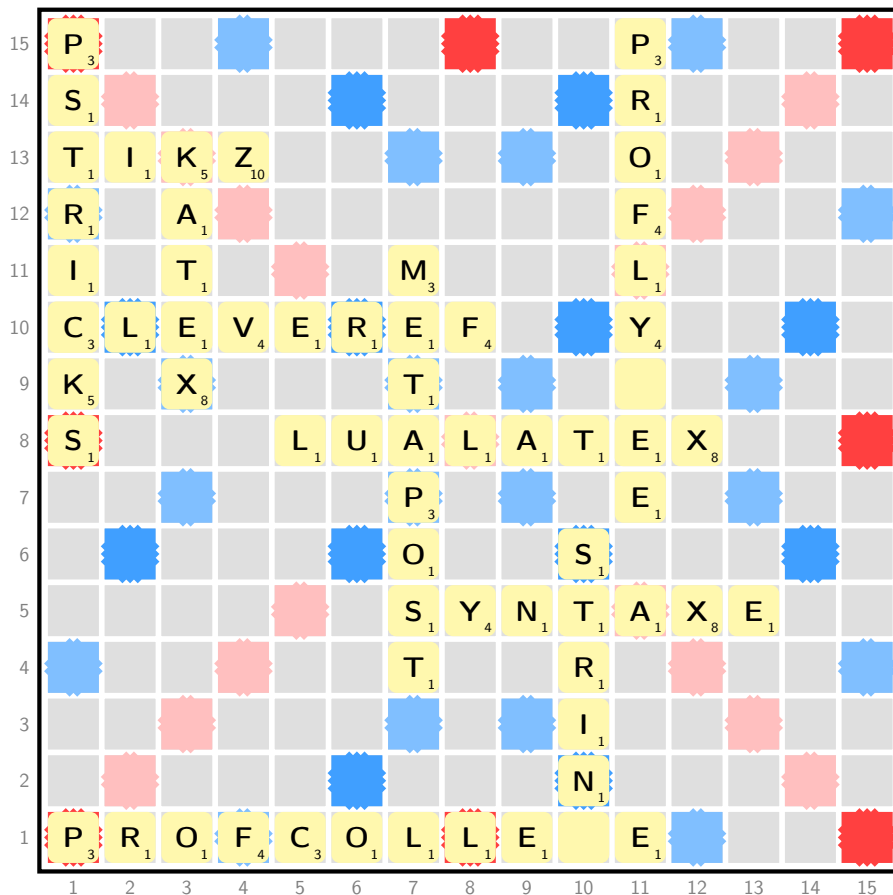
- the first argument, *optional*, between [...] is the orientation of the word, **(H)** (by default) or **(V)** ;
- the second argument, *mandatory*, between {...}, is the list of the letters, separate by " , " ;
- the last argument, *mandatory*, between {...}, is the coordinates of the first cell for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

```
\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}
```

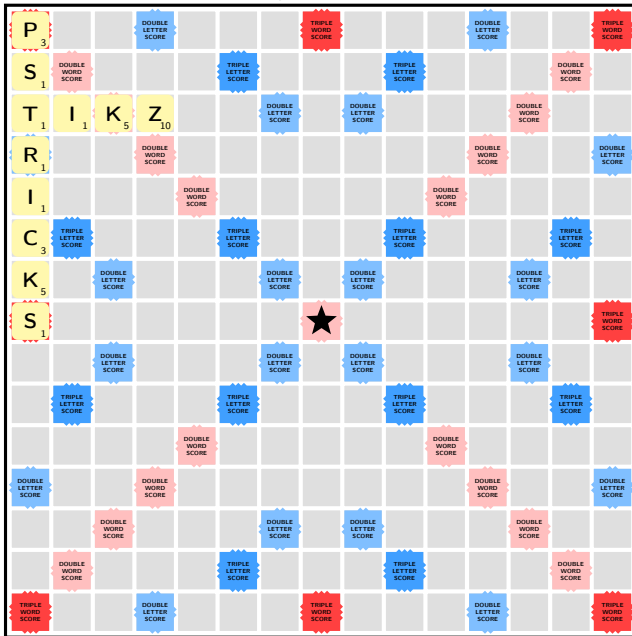


```

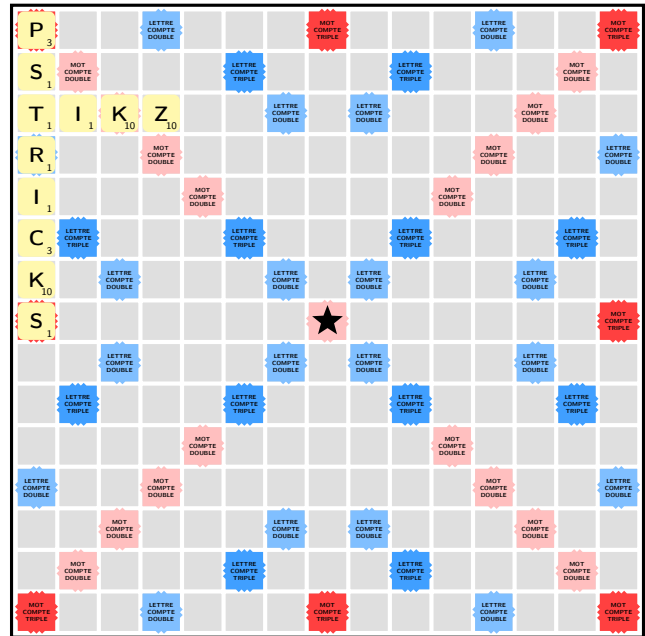
\begin{EnvScrabble}<EN>[Scale=0.55]
  \ScrabblePutWord{T,I,K,Z}{1,13}
  \ScrabblePutWord[V]{P,S,T,R,I,C,K,S}{1,15}
  \draw (7,15) node[font=\LARGE\sffamily] {English version} ;
\end{EnvScrabble}~~~
\begin{EnvScrabble}<FR>[Scale=0.55]
  \ScrabblePutWord{T,I,K,Z}{1,13}
  \ScrabblePutWord[V]{P,S,T,R,I,C,K,S}{1,15}
  \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}

```

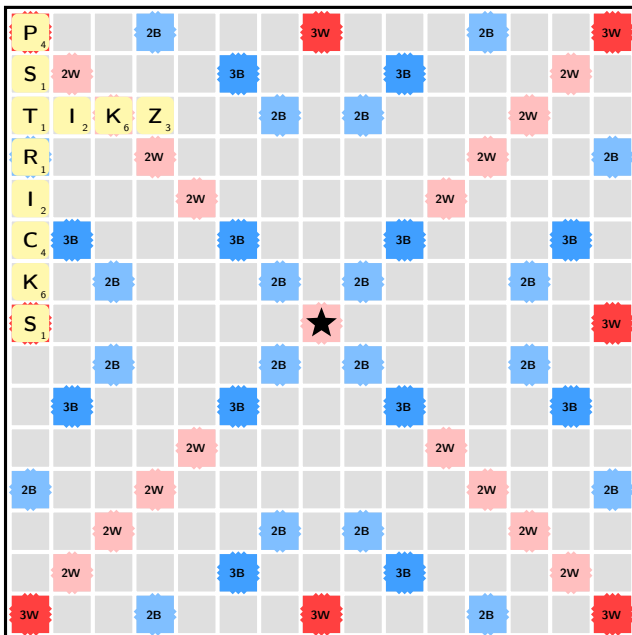
English version



French version



German version



Spanish vesion

