Scrabble [en]

A board of Scrabble,

with words or not.
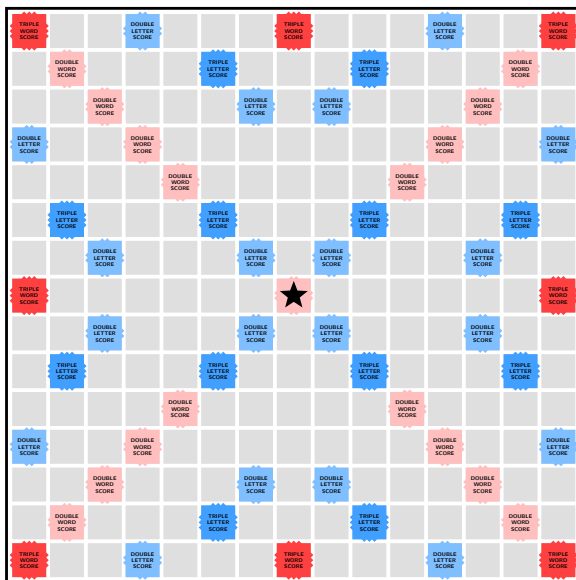
Scrabble™, from Hasbro™ and Mattel™.

Version 0.1.3 - 09/01/2023

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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 Denis Bitouzé and Patrick Bideault for help and ideas !

LATEX

pdfLATEX

LuaLATEX

TikZ

TEXLive

MiKTEX

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 propostion 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 :

```
                                                                          Code LaTeX
    \usepackage{Scrabble}
```

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 and listofitems.

1.3 The package itself

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

- *independent* ;

- in an *environment* with words.

```
                                                                          Code LaTeX
%independent command for the empty board
\ScrabbleBoard<language>[keys]

%environment with word(s)
\begin{EnvScrabble}<language>[keys]
    \ScrabblePutWord[orientation]{word}{coordinates of the beginning cell}
\end{EnvScrabble}
```

1.4 Languages

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

- english (code ISO 639-1 EN) ;

- french (code ISO 639-1 FR) ;

- german (code ISO 639-1 DE) ;

- spanish (code ISO 639-1 ES).

2 Commands, keys and options

2.1 The board, standalone

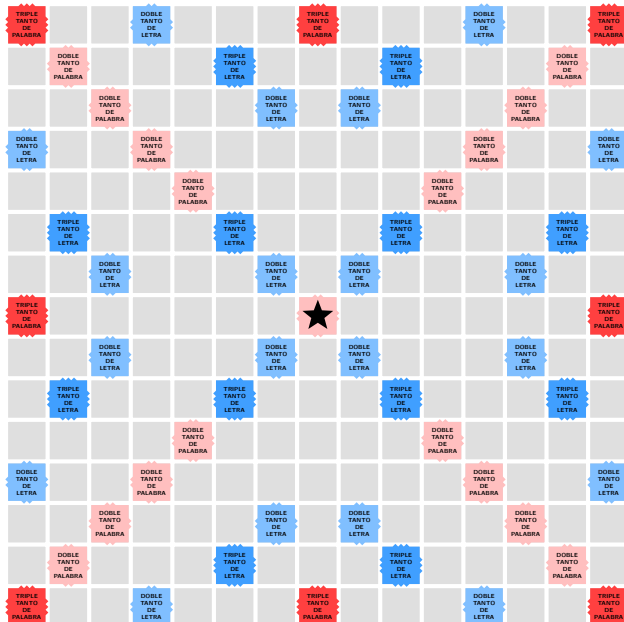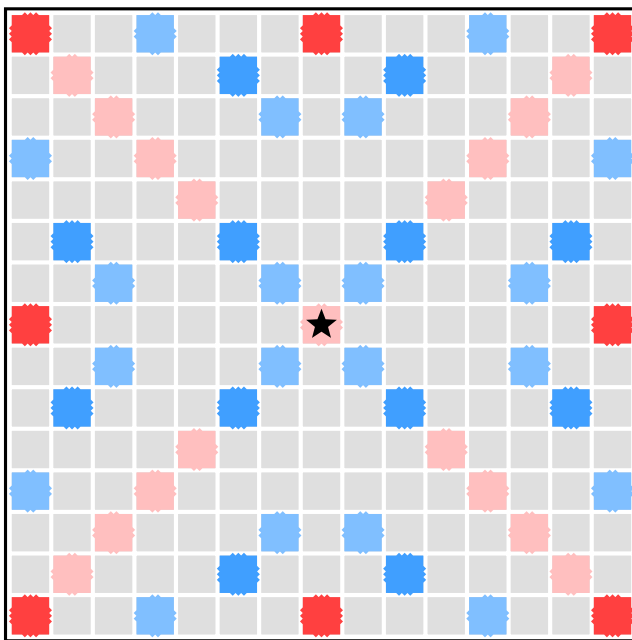The first argument, *optional*, between `<...>` is the **⟨langage⟩** of the display, form the list :

⟨**EN**⟩ (english, default), ⟨**FR**⟩ (french), ⟨**DE**⟩ (german) et ⟨**ES**⟩ (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 ;   default : **⟨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<ES>[Scale=0.55,Border=false]      %board in spanish, without border
```

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 independent command !
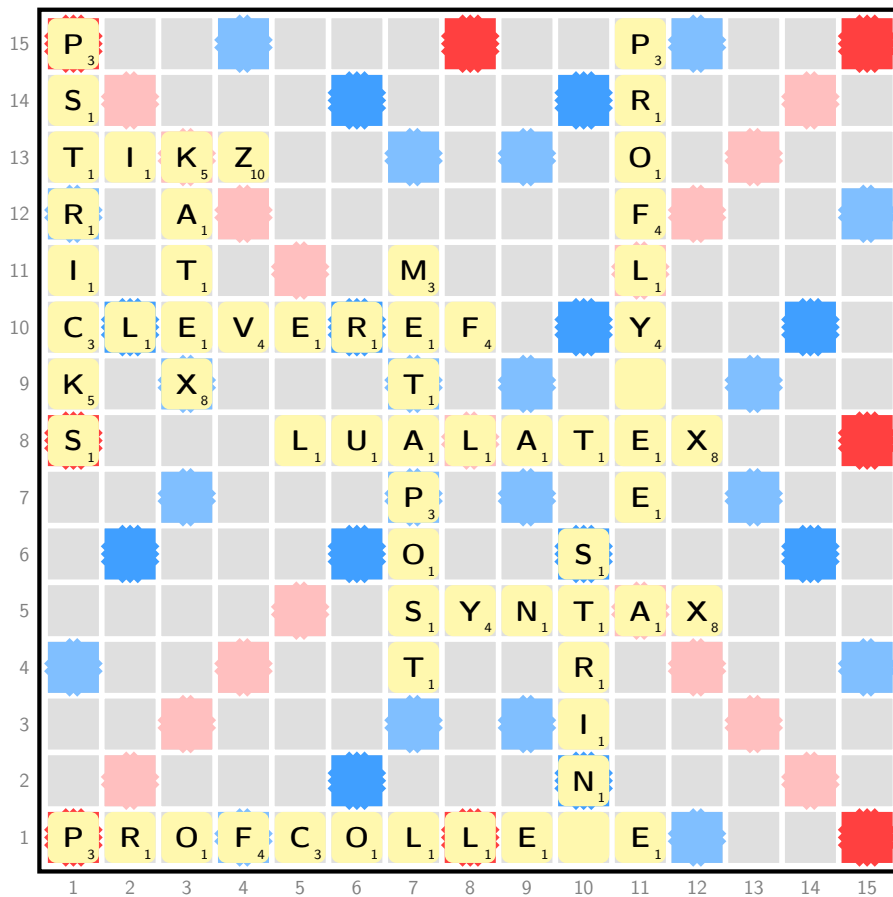
For putting word on the board :

- the first argument, *optional*, between [...] is the orientation of the word, ⟨H⟩ (by default) or ⟨V⟩ ;

- the second argument, *mandatory*, between {...}, is the word, with uppercase or lowercase letters ;

- the last argument, *mandatory*, between {...}, is the coordinates of the first cell for fisrt 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{TIKZ}{1,13}
    \ScrabblePutWord[V]{pstricks}{1,15}
    \ScrabblePutWord[V]{KaTeX}{3,13}
    \ScrabblePutWord{cleveref}{1,10}
    \ScrabblePutWord[V]{METAPOST}{7,11}
    \ScrabblePutWord{LUALATEX}{5,8}
    \ScrabblePutWord[V]{ProfLy*ee}{11,15}
    \ScrabblePutWord{PROFCOLLE*E}{1,1}
    \ScrabblePutWord{SYNTAX}{7,5}
    \ScrabblePutWord[V]{STRIN*}{10,6}
\end{EnvScrabble}
```
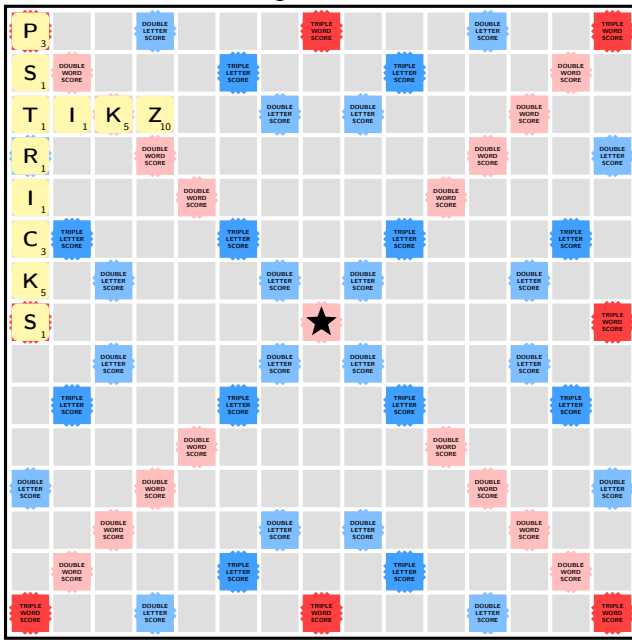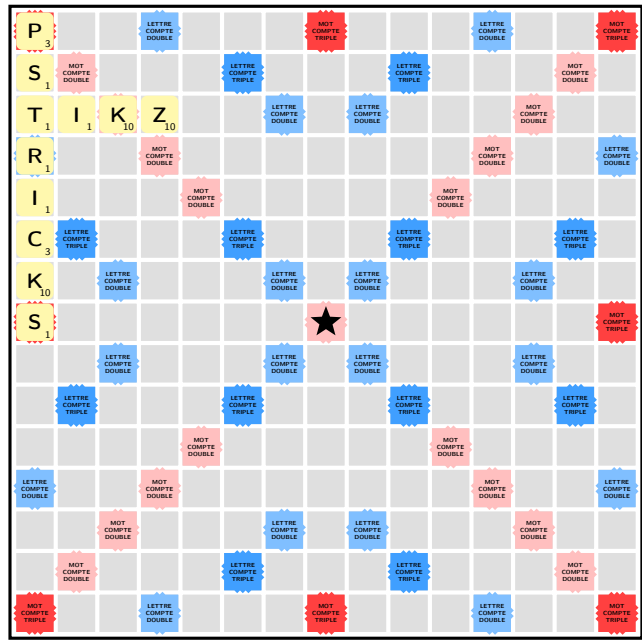
```latex
\begin{EnvScrabble}[Scale=0.55]
    \ScrabblePutWord{tikz}{1,13} \ScrabblePutWord[V]{PSTRiCKS}{1,15}
    \draw (7,15) node[font=\LARGE\sffamily] {English version} ;
\end{EnvScrabble}~~~
\begin{EnvScrabble}<FR>[Scale=0.55]
    \ScrabblePutWord{tikz}{1,13} \ScrabblePutWord[V]{PSTRiCKS}{1,15}
    \draw (7,15) node[font=\LARGE\sffamily] {French version} ;
\end{EnvScrabble}\\
\begin{EnvScrabble}<DE>[Scale=0.55]
    \ScrabblePutWord{tikz}{1,13} \ScrabblePutWord[V]{PSTRiCKS}{1,15}
    \draw (7,15) node[font=\LARGE\sffamily] {German version} ;
\end{EnvScrabble}~~~
\begin{EnvScrabble}<ES>[Scale=0.55]
    \ScrabblePutWord{LaTeX}{1,14} \ScrabblePutWord[V]{Madrid}{2,15}
    \draw (7,15) node[font=\LARGE\sffamily] {Spanish vesion} ;
\end{EnvScrabble}
```
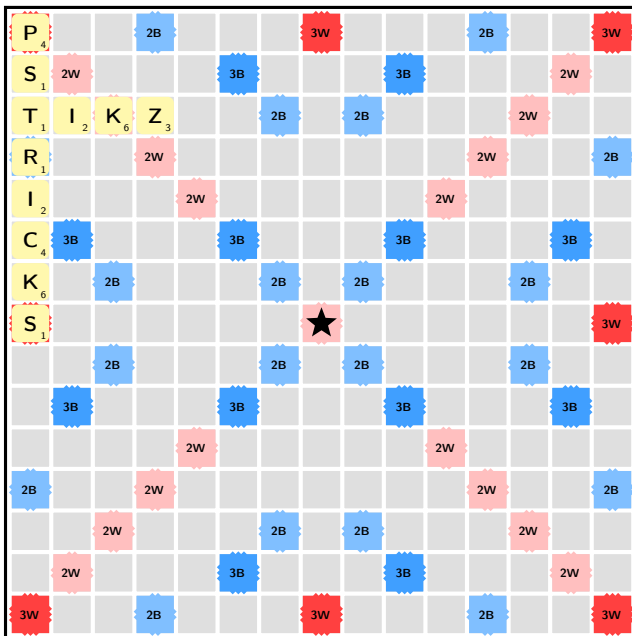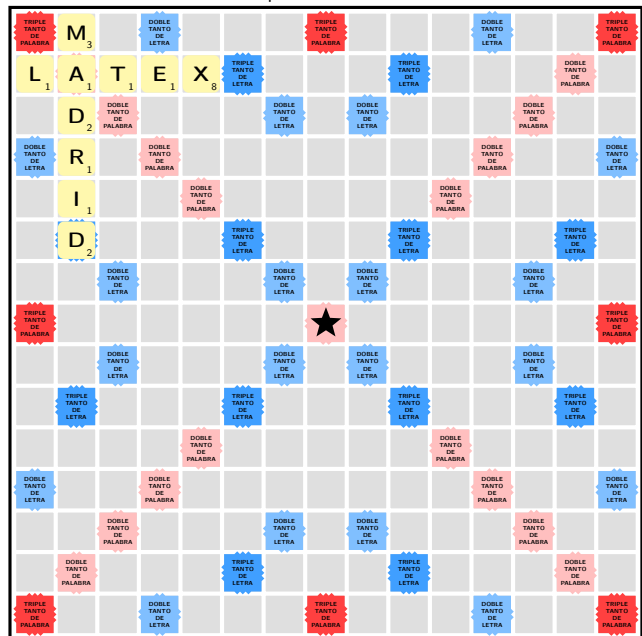
English version

French version

German version

Spanish vesion

History

`v0.1.3` : Words in uppercase or lowercase, adjusted codes for language (ISO 639-1)
`v0.1.2` : Key <ScaleLabels> to modify scale of the cell's names
`v0.1`   : Initial version