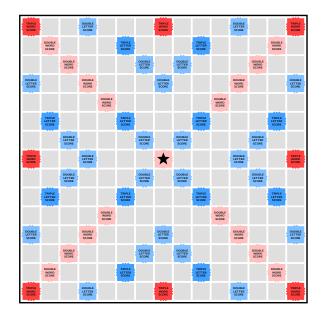
Scrabble [en]

A board of Scrabble, with words or not.

ScrabbleTM, from HasbroTM and MattelTM. Version 0.1.9 - 17/07/2025

Cédric Pierquet
c pierquet - at - outlook . fr
https://github.com/cpierquet/latex-packages/tree/main/scrabble
https://forge.apps.education.fr/pierquetcedric/packages-latex

- ▶ Some commands to display a Scrabble board, with or without words.
- ➤ English, French, German or Spanish version for points and labels.
- $\blacktriangleright \ \ \, \mathrm{Ideas} \ from \ \mathtt{https://tex.stackexchange.com/questions/194780/tikz-drawing-a-rectangle-with-spikes-on-borders} \\$





Thanks to Denis Bitouzé, Patrick Bideault, quark67, Patrick Jenty and jmbeckers for help and ideas!

MEX

pdflATEX

LuaLATEX

TikZ

T_EXLive

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 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 MTEX

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 ScrabbleTM board:

- independent;
- in an *environment* with words.

%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).

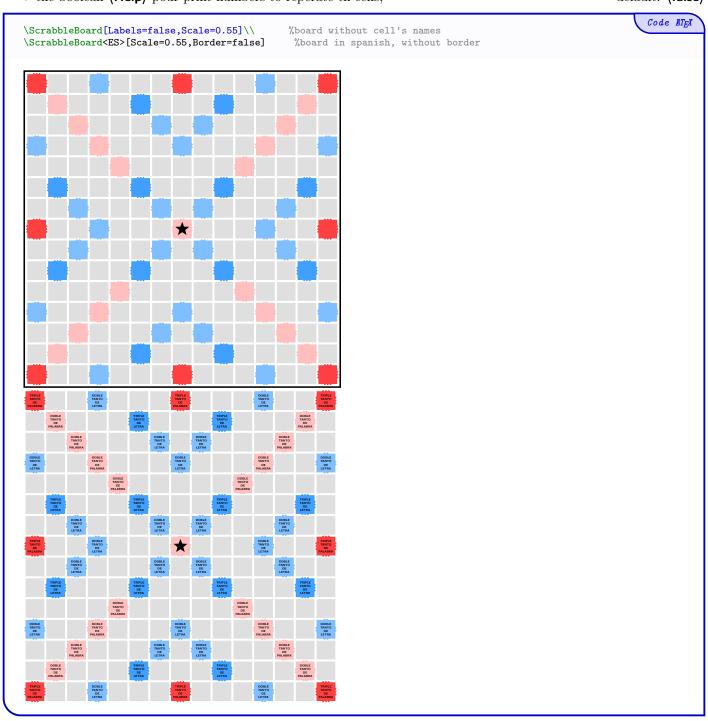
2 Commands, keys and options

2.1 The board, standalone

The first argument, *optional*, between $\langle ... \rangle$ is the $\langle langage \rangle$ of the display, form the list: $\langle EN \rangle$ (english, default), $\langle FR \rangle$ (french), $\langle DE \rangle$ (german) et $\langle ES \rangle$ (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**)



2.2 The board with words

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

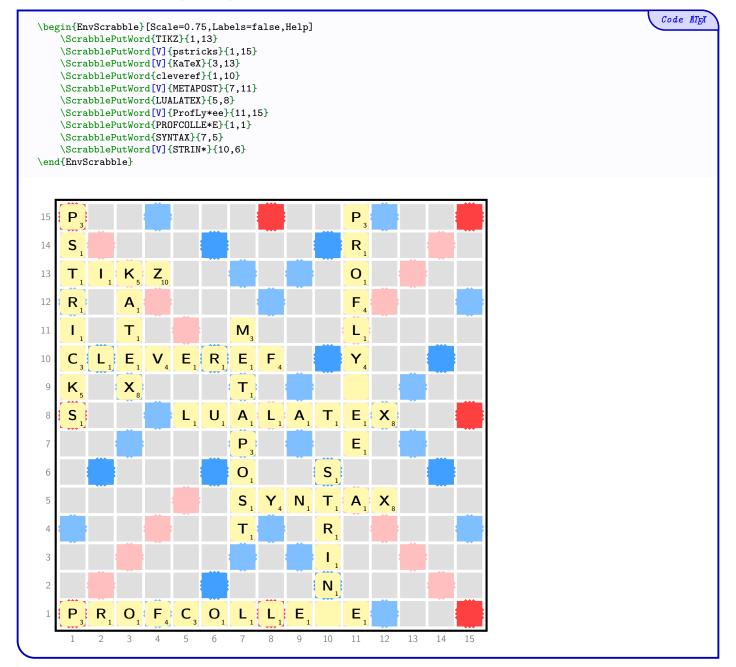
For the *environment*, the options are the same as for the independent command!

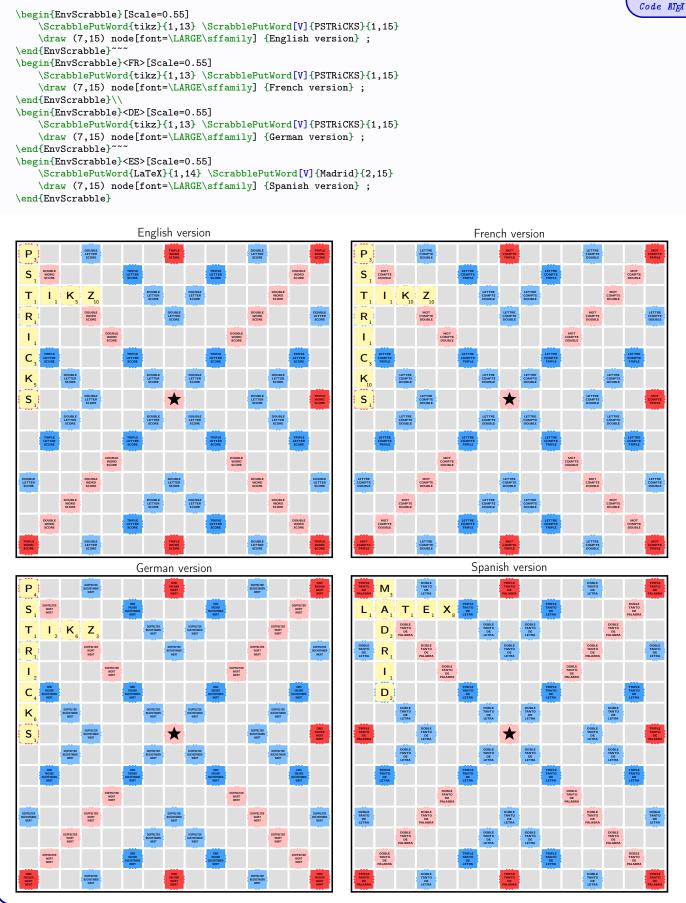
For putting word on the board:

- the first argument, optional, between [...] is the orientation of the word, $\langle H \rangle$ (by default) or $\langle V \rangle$;
- \bullet the second argument, *mandatory*, between $\{\ldots\}$, is the word, with uppercase or lowercase letters;
- 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 *.





2.3 Inline word

The idea is to propose a command to insert a word in *online* mode, with automatic adjustment of size and position.

%command to put inline word
\ScrabbleWord[keys] {word}

The first argument, *optional*, between [...] allows you to configure the **(keys)**:

• (Colback) for the color of the pieces default: (yellow!40)

• (Font) for the font; default: (\bfseries\sffamily)

• (Colfonte) for the color of the characters; default: (black)

• (Lang) to choose the language (for the number of points); default: (EN)

• (Offset) to specify horizontal spacing between pieces; default: (0.1pt)

• (Scale) to specify a base scale for texts; default: (0.6)

• (Shuffle) (boolean) to mix letters; default: (false)

• (Score) which is a boolean to display the score of each piece. default: (true)

Note 1: the code is responsible for positioning the pieces for *satisfactory* alignment and scaling based on the active font.

Note 2: the blank (or wildcard) is obtained by the character *.

Online Scrabble word test positioning \ScrabbleWord{TE*ST} to see!

Online Scrabble word test positioning T.E. S.T. to see!

 ${\tt \{\hsupe\sffamily\ Test\ positioning\ \scrabble\word\cite{Colback=teal!5,Colfonte=orange}\cite{Colback=teal!5,Colfonte$

Code ATEX

Test positioning P, Y, T, H, A, G, R, E, to see!

\scalebox{3}[3]{Positioning \ScrabbleWord[Lang=DE,Font=\ttfamily,Scale=0.75,Shuffle]{PYTHAG*RE} to see!}

Code MTEX

Positioning A, G, Y, P, R, E, T, H, to see!

{\LARGE Test positioning \ScrabbleWord[Score=false,Offset=1pt,Colback=orange!50]{PSTRICKS} to see!}

Code MTEX

Test positioning PSTRICKS to see!

2.4 Special letters

It is possible to use special characters, for the languages <DE> and <ES>, but for compatibility reasons, special characters are *coded* by numbers:

- 0 code the letter \ddot{O} with 8 points;
- 1 code the letter | Ä | with 6 points;
- 4 code the letter $|\ddot{U}|$ with 6 points;
- 6 code the *letter* CH with 5 points;
- 7 code the letter $\left[\tilde{N}\right]$ with 8 points;
- 8 code the *letter* RR with 8 points;
- 9 code the *letter* LL with 8 points.

```
{\Huge \ScrabbleWord[Lang=DE,Font=\ttfamily,Scale=0.75]{104AAA}}
{\Huge \ScrabbleWord[Lang=ES,Font=\sffamily,Scale=0.75]{R070S0689}}

\[ \begin{align*} \beg
```

2.5 Colors

The colors used can be redefined using the aliases given below.

```
\colorlet{triplewordscore}{red!75}
\colorlet{doublewordscore}{red!25}
\colorlet{tripleletterscore}{blue!50!cyan!75}
\colorlet{doubleletterscore}{blue!50!cyan!50}
\colorlet{scrabblebgtile}{yellow!40}
\colorlet{scrabblebloard}{gray!25}
```

History

v0.1.9: Bugfix (forgotten 'cells') + colors

v0.1.8: Bugfix

v0.1.7: Key [Shuffle] for inline words

v0.1.6: Bugfix with joker; enhancements for $<\!\mathsf{DE}\!\!>$ board

v0.1.5: Special letters for <DE> and <ES> v0.1.4: Command to insert *inline* words

v0.1.3: Words in uppercase or lowercase, adjusted codes for language (ISO 639-1)

v0.1.2: Key < Scale Labels > to modify scale of the cell's names

v0.1: Initial version