Scrabble [en]

A board of Scrabble, with words or not.

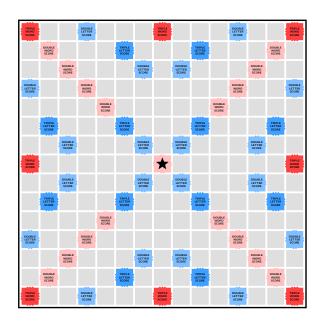
ScrabbleTM, from HasbroTM and MattelTM. Version 0.1.8 - 05/05/2025

Cédric Pierquet

c pierquet - at - outlook . fr

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 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 <...> 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 $\langle keys \rangle$:

• (Scale) for the display (the initial unit is 1 cm);

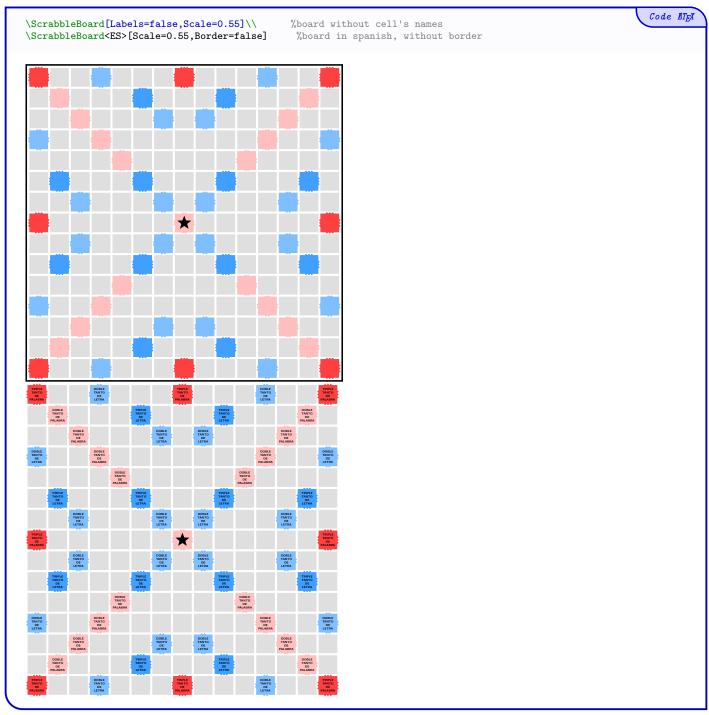
• **(ScaleLabels)** for the cell's names; défaut: **(1)**

default: $\langle 1 \rangle$

• 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.

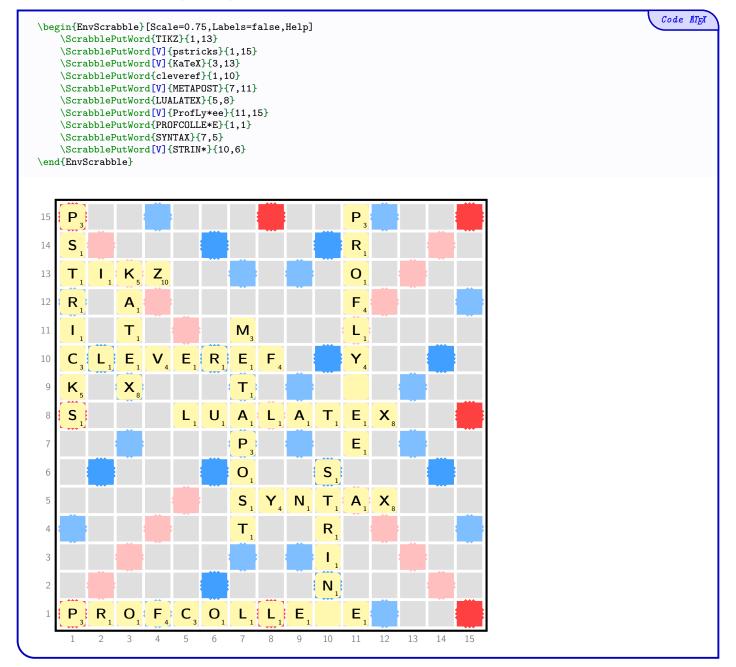
For the *environment*, the options are the same as for the independent command!

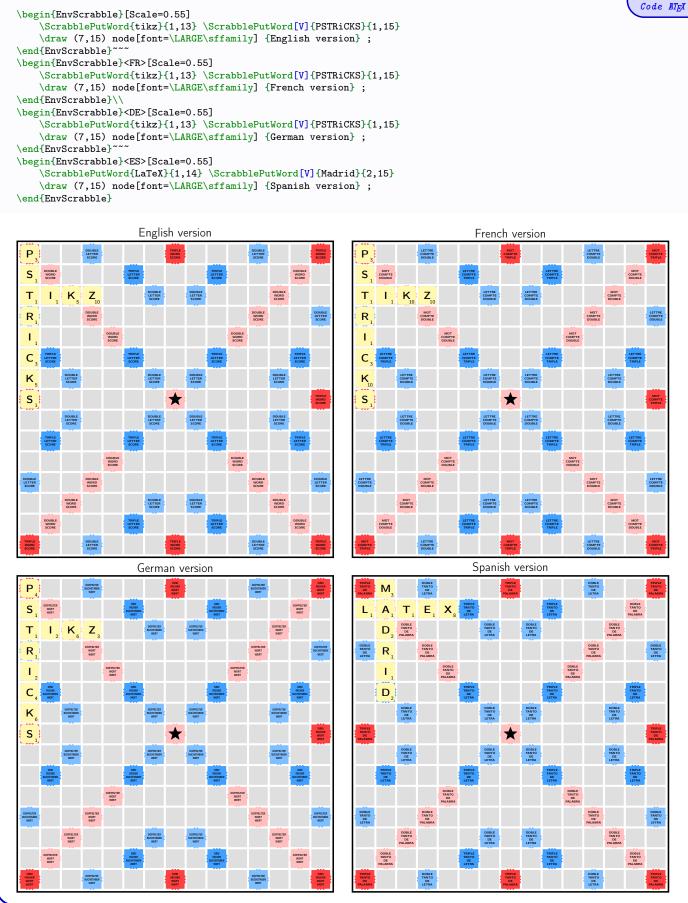
For putting word on the board:

- 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)

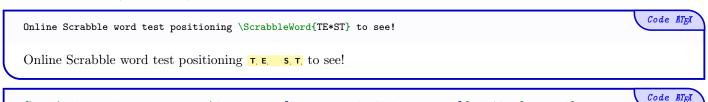
• (Scale) to specify a base scale for texts; default: (0.6)

• (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 *.



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

{\Huge\sffamily Test positioning \ScrabbleWord[Colback=teal!5,Colfonte=orange]{PYTHAG*RE} to see!}

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

Code MTEX

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

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

Code MTEX

Test positioning PSTRICKS to see!

[Scrabble] - 6 -

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 $|\ddot{\mathbf{U}}|$ with 6 points;
- 6 code the *letter* CH with 5 points;
- 7 code the letter \tilde{N} with 8 points;
- 8 code the *letter* RR with 8 points;
- 9 code the *letter* LL with 8 points.

History

- v0.1.8: Bugfix
- v0.1.7: Key [Shuffle] for inline words
- v0.1.6: Bugfix with joker; enhancements for $\langle DE \rangle$ board
- v0.1.5: Special letters for $\langle DE \rangle$ and $\langle ES \rangle$ 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 <ScaleLabels> to modify scale of the cell's names
- v0.1: Initial version