

My Personal Journey into
Creating Word Search Puzzles

in Cyrillic and Arabic using Multilingual Supports within L^AT_EX

TUG Online Conference 2021 • Jennifer Claudio, Santa Clara, California

N	D	N	I	N	D	I	A	T	O
T	A	O	O	N	N	H	T	R	T
E	R	T	G	N	A	T	G	I	L
C	M	R	E	O	L	I	Y	V	A
O	S	E	I	J	E	O	N	A	O
R	T	D	D	A	R	Y	A	N	L
K	A	A	N	P	I	K	M	D	A
P	D	M	A	A	O	O	R	R	P
E	T	E	S	N	T	T	E	U	M
I	R	E	L	A	N	D	G	M	C

How many location names can you find?

Why Word Search Puzzles?



PERSONAL FUN



EDUCATIONAL TOOL

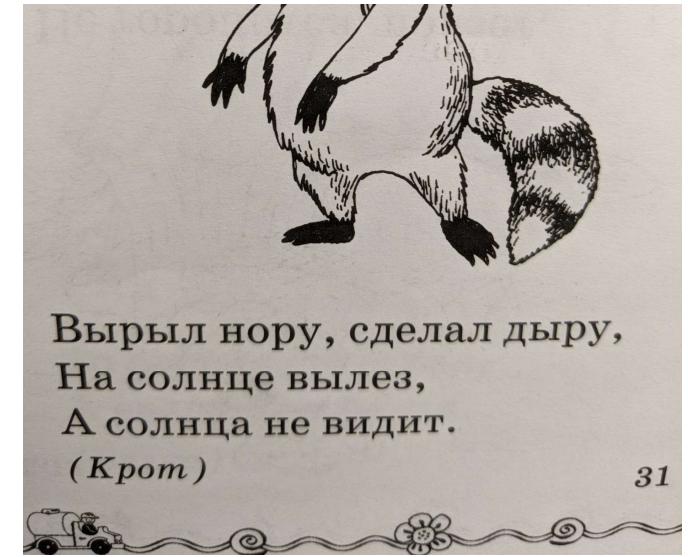
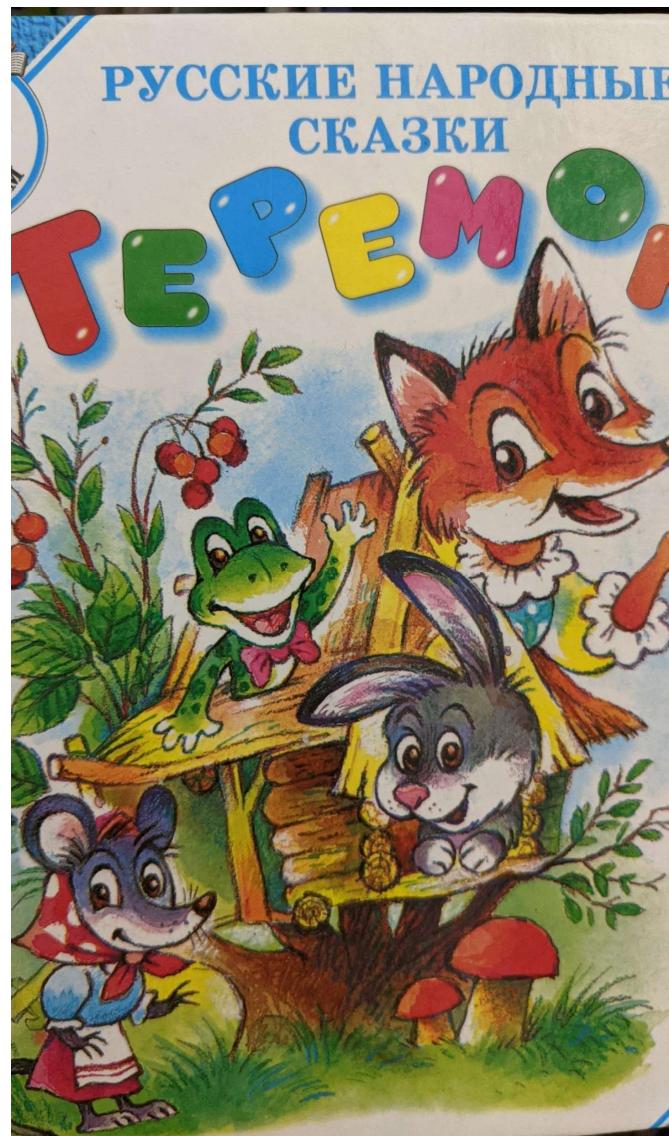


THEMATIC TOPICS

My Background



SOCIETY
FOR SCIENCE
& THE PUBLIC



31

الْوَدَدِيَّةِ

في أحد الأيام قرر الخليفة أن يزور بيت صديقه أبي سالم، وعندما وصل الخليفة إلى البيت، لقيه الطفل سالم المعروف بذكائه وفطنته. توجه الخليفة إليه وسأله:
أيهما أجمل، بيت الخليفة أم بيت والدك؟
بيت أبي أجمل الآن، لأنك موجود فيه، أجاب سالم.
عجب الخليفة من سرعة خاطر الطفل ومن حسن جوابه فسألته ثانية:
انظر إلى هذا السوار الذي على يدي، هل رأيت أحجاً منه؟

أو أفقاً :

عن الكلمات

Word Search Game: Search for the words given in the box below, horizontally or vertically; two are done for you as examples:

الله	أحد	أب	يقرأ	إثنان	أم	أسد	فأر	كيف
one	one	father	reading	two	mother	lion	deer	how
الله	أحد	أب	يقرأ	إثنان	أم	أسد	فأر	كيف
الله	أحد	أب	يقرأ	إثنان	أم	أسد	فأر	كيف

أ	ب	ت	ث	ل	ض	س	ظ	ظ
ل	ط	ت	ش	ج	ق	و	ع	ي
ل	م	ض	ث	و	خ	غ	ذ	ن
ه	أ	ح	د	ج	ل	ح	ف	أ
ي	ز	ك	ص	و	م	ذ	ق	ن
أ	ق	س	ث	ش	أ	أ	ك	ك
ف	ي	ح	ش	ض	س	م	خ	ر
غ	خ	و	ب	ص	س	ي	ق	أ
ك	ي	ف	ت	م	ش	ن	ر	أ

Saturday, Sep 19 • 17:06

Would you know how to make a word search puzzle in tex ? As in, do you have a method where you could input words of your choice, and then make it assign positions to letters, then fill with random letters?

Helen Claudio



Hmm. Never done that.

Pop Claudio



Let me research when I get back.

<https://thewordsearch.com> ::

Word Search Puzzles

Thousands of word search puzzles and games to play online or print out, covering fun and educational topics. You can even create your very own ...

[Printable Word Searches](#) · [Word Search Maker](#) · [Algebra Word Search](#) · [General Word Search](#)

<https://api.razasoft.com> ::

Word Search API

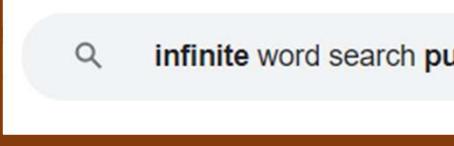
Enjoy Word Search puzzles and games with our API.

[Search](#)

<https://word-search.puzzles.com> ::

Word Search Puzzles

If you like this Word Search Puzzles app, try our Fill-In Crosswords app: Google Play



<https://puzzlemaker.discoveryeducation.com> › word-sea... ::

Create Your Own Word Search Puzzle | Discovery Education

Puzzlemaker is a puzzle generation tool for teachers, students and parents. Create customized word search, criss-cross, math puzzles, and more-using ...

Sort: Best match ▾

6,327 repository results

[louisun/iSearch](#)
有道词典 命令行查询 柯林斯词典 单词管理 本地保存
`dictionary` `word` `youdao`
★ 203 Python MIT license Updated on Mar 13

[lighthouse-labs/pair-programming-word-search](#)

[php](#) [wordpress](#) [search-engine](#) [algolia](#)
★ 355 JavaScript Updated on May 9, 2019

[abdularis/Word-Search-Game](#)
Simple Word Search puzzle game for android
★ 68 Java GPL-3.0 license Updated on Nov 8, 2020

[bunkat/wordfind](#)
A small javascript library for generating and solving word find (also known as word search) puzzles.
★ 145 JavaScript MIT license Updated on Jan 17

Words: [abelian semigroup commutator quotient product]

Grid size: 10

Directions: ← →
↖ ↑ ↗
↙ ↓ ↘

[Try again] [Print]

T	O	Q	S	R	L	N	D	E	C
L	S	U	B	V	W	E	R	P	T
G	Y	O	O	L	O	E	U	O	D
N	N	T	A	A	Y	R	E	T	H
I	S	I	T	E	L	O	T	T	Y
R	S	E	M	I	G	R	O	U	P
T	T	N	A	B	E	L	I	A	N
W	N	T	P	R	O	D	U	C	T
C	O	M	M	U	T	A	T	O	R
E	E	N	S	E	M	L	E	D	E

(You can click on a letter to change it)

LaTeX:

LaTeX:

```
\documentclass{standalone}

\usepackage[thinlines]{easytable}

\begin{document}

\begin{TAB}(e,15pt,15pt){|c|c|c|c|c|c|c|c|c|}{|c|c|c|c|c|c|c|c|c|}

T & O & Q & S & R & L & N & D & E & C \\
L & S & U & B & V & W & E & R & P & T \\
G & Y & O & O & L & O & E & U & O & D \\
N & N & T & A & A & Y & R & E & T & H \\
I & S & I & T & E & L & O & T & T & Y \\
R & S & E & M & I & G & R & O & U & P \\
T & T & N & A & B & E & L & I & A & N \\
W & N & T & P & R & O & D & U & C & T \\
C & O & M & M & U & T & A & T & O & R \\
E & E & N & S & E & M & L & E & D & E \\

\end{TAB}

\end{document}
```



Source Rich Text

1 \documentclass{standalone}
2
3 \usepackage[thinline]{easytable}
4
5 \begin{document}
6
7 \begin{TAB}(e,15pt,15pt){|c|c|c|c|c|c|c|c|c|c}{|c|c|c|c|c|c|c|c|c|c}
8 S & T & R & A & W & B & E & R & R & Y \\
9 O & R & P & A & D & T & A & Y & T & I \\
10 O & R & N & U & M & U & C & B & C & E \\
11 M & O & O & N & E & R & H & R & E & S \\
12 D & E & N & H & O & N & E & Y & O & E \\
13 O & T & C & H & I & C & K & E & N & R \\
14 G & D & O & S & H & E & E & P & A & U \\
15 I & D & R & H & E & A & R & T & I & Y \\
16 T & D & C & O & W & H & T & G & N & S \\
17 L & B & U & T & T & E & R & F & L & Y \\
18 \end{TAB}
19
20 \end{document}

Recompile

S	T	R	A	W	B	E	R	R	Y
O	R	P	A	D	T	A	Y	T	I
O	R	N	U	M	U	C	B	C	E
M	O	O	N	E	R	H	R	E	S
D	E	N	H	O	N	E	Y	O	E
O	T	C	H	I	C	K	E	N	R
G	D	O	S	H	E	E	P	A	U
I	D	R	H	E	A	R	T	I	Y
T	D	C	O	W	H	T	G	N	S
L	B	U	T	T	E	R	F	L	Y

Words: tomato cucumber onion cabbage mushroom pumpkin broccoli lentil radish zucchini carrot

Grid size:



Directions: ← →



Try again Print

F	Z	E	I	N	C	E	C	M	A
T	U	A	O	P	A	O	C	U	P
H	C	B	L	U	B	N	U	S	D
C	C	R	E	M	R	I	C	U	C

F	Z	E	I	N	C	E	C	M	A
T	U	A	O	P	A	O	C	U	P
H	C	B	L	U	B	N	U	S	D
S	C	R	E	M	B	I	C	H	C
R	H	O	N	P	A	O	U	R	A
A	I	C	T	K	G	N	M	O	R
D	N	C	I	I	E	R	B	O	R
I	I	O	L	N	L	E	E	M	O
S	E	L	T	T	A	U	R	B	T
H	R	I	T	O	M	A	T	O	E

LaTeX:

```
\documentclass{standalone}

\usepackage[thinlines]{easytable}

\begin{document}

\begin{TAB}(e,15pt,15pt){|c|c|c|c|c|c|c|c|c|c|}{|c|c|c|c|c|c|c|c|c|c|}

F & Z & E & I & N & C & E & C & M & A \\
T & U & A & O & P & A & O & C & U & P \\
H & C & B & L & U & B & N & U & S & D \\
S & C & R & E & M & B & I & C & H & C \\
R & H & O & N & P & A & O & U & R & A \\
A & I & C & T & K & G & N & M & O & R \\
D & N & C & I & I & E & R & B & O & R \\
I & I & O & L & N & L & E & E & M & O \\
S & E & L & T & T & A & U & R & B & T \\
H & R & I & T & O & M & A & T & O & E \\

\end{TAB}

\end{document}
```

Words:

помидор огурец лук капуста капуста тыква брокколи чечевица редиска кабачок м

W	N	A	I	E	O	C	M	F	B
A	G	K	N	A	G	E	O	P	R
T	H	A	K	T	U	C	R	O	O
Y	R	P	A	N	R	E	K	M	K
K	E	U	B	L	E	V	O	I	K
V	D	S	A	U	Z	I	V	D	O
A	I	T	Ч	K	A	Ц	K	O	L
S	C	A	O	R	H	A	A	R	I
T	K	T	K	A	P	У	S	T	A
A	A	S	P	A	R	Ж	A	K	O

Ј	Е	Т	К	А	П	У	С	Т	А
Л	Е	М	Л	О	Г	У	Р	Е	Ц
Ч	У	В	С	П	А	Р	Ж	А	Г
Е	Е	К	К	А	Б	А	Ч	О	К
Ч	Л	Р	К	А	П	У	С	Т	А
Е	О	Г	П	О	М	И	Д	О	Р
В	Е	М	О	Р	К	О	В	К	А
И	Р	Т	Ы	К	В	А	Н	А	У
Ц	Б	Р	О	К	К	О	Л	И	Н
А	Н	Р	Е	Д	И	С	К	А	І

О	Е	Ч	Е	Ч	Е	В	И	Ц	А
К	Е	Л	У	К	С	М	С	І	К
А	С	Р	Р	Е	Д	И	С	К	А
П	Ш	А	С	П	А	Р	Ж	А	П
У	К	А	Б	А	Ч	О	К	Л	У
С	Т	П	О	М	И	Д	О	Р	С
Т	М	О	Р	К	О	В	К	А	Т
А	І	Л	О	Г	У	Р	Е	Ц	А
Т	Ы	К	В	А	С	Р	Д	Н	Д
І	Б	Р	О	К	К	О	Л	И	Н

Source Rich Text

Recompile 58 ↕

T	T	T	H				Y	
T	N	H	T				H	
	C	F	I				H	
T		N	L				P	
	S		R				A	
B	Y						I	
	E	R		R	R		D	
	A	H					T	
	B	A	M	N	D	I	E	J
							T	S

```
1 \documentclass{standalone}
2
3 \usepackage[thinlines]{easytable}
4 \usepackage{amsmath,amssymb}
5
6
7 \begin{document}
8
9 \begin{TAB}(e,15pt,15pt){|c|c|c|c|c|c|c|c|c|c|}{|c|c|c|c|c|c|c|c|c|c|} \\
10 T & T & T & H &   &   &   & Y &   \\
11 T & N & H & T &   &   &   & H &   \\
12 П & С & F & I &   &   &   & H &   \\
13 T &   & N & L &   &   &   & P &   \\
14 C & S & E & R & Ч & В & Ц & А & Н & Ц \\
15 O & B & Y & Л & К & Й & Е & И & И & A \\
16 Б & О & Е & Р & А & Й & Р & Р & К & D \\
17 A & B & A & Н & Л & У & Н & А & А & Т \\
18 K & Ц & В & А & М & Н & Д & И & Е & J \\
19 A & A & K & О & Р & О & В & А & Т & S \\
20 \end{TAB}
21
22 \end{document}
```

What's missing?

- Added `\usepackage[russian]{babel}` to the preamble
- Received warning message for font encoding!
- Added in `\usepackage[utf8]{inputenc}` and that seemed to make it happy

What about font options?

```
/usr/local/texlive/2020/texmf-dist/fonts/opentype/adobe/sophia/softhairline/softhairline-italic.otf
/usr/local/texlive/2020/texmf-dist/fonts/opentype/adobe/sophia/softhairline/softhairline-thinitalic.otf
/usr/local/texlive/2020/texmf-dist/fonts/opentype/adobe/sophia/softhairline/softhairline-thin.otf
/usr/local/texlive/2020/texmf-dist/fonts/opentype/adobe/sophia/softhairline/softhairline-regular.otf
/usr/local/texlive/2020/texmf-dist/fonts/opentype/adobe/sophia/softhairline/softhairline-mediumitalic.otf
/usr/local/texlive/2020/texmf-dist/fonts/opentype/adobe/sophia/softhairline/softhairline-medium.otf
/usr/local/texlive/2020/texmf-dist/fonts/opentype/adobe/sophia/softhairline/softhairline-bolditalic.otf
/usr/local/texlive/2020/texmf-dist/fonts/opentype/adobe/sophia/softhairline/softhairline-bold.otf
/usr/local/texlive/2020/texmf-dist/fonts/truetype/bh/gofonts/GoSmallcaps-Italic.ttf
/usr/local/texlive/2020/texmf-dist/fonts/truetype/bh/gofonts/Go-Regular.ttf
/usr/local/texlive/2020/texmf-dist/fonts/truetype/bh/gofonts/GoMono-Regular.ttf
/usr/local/texlive/2020/texmf-dist/fonts/truetype/bh/gofonts/GoMono-Bold-Italic.ttf
/usr/local/texlive/2020/texmf-dist/fonts/truetype/bh/gofonts/Go-Bold-Italic.ttf
/usr/local/texlive/2020/texmf-dist/fonts/truetype/bh/gofonts/Go-Bold.ttf
/usr/local/texlive/2020/texmf-dist/fonts/truetype/bh/gofonts/Go-Medium-Italic.ttf
/usr/local/texlive/2020/texmf-dist/fonts/truetype/bh/gofonts/GoSmallcaps.ttf
/usr/local/texlive/2020/texmf-dist/fonts/truetype/bh/gofonts/GoMono-Regular-Italic.ttf
/usr/local/texlive/2020/texmf-dist/fonts/truetype/production/spectral/Spectral-ExtraLight.ttf
/usr/local/texlive/2020/texmf-dist/fonts/truetype/production/spectral/Spectral-ExtraBold.ttf
/usr/local/texlive/2020/texmf-dist/fonts/truetype/production/spectral/Spectral-BoldItalic.ttf
/usr/local/texlive/2020/texmf-dist/fonts/truetype/production/spectral/Spectral-MediumItalic.ttf
/usr/local/texlive/2020/texmf-dist/fonts/truetype/production/spectral/Spectral-Medium.ttf
/usr/local/texlive/2020/texmf-dist/fonts/truetype/production/spectral/Spectral-Regular.ttf
/usr/local/texlive/2020/texmf-dist/fonts/truetype/production/spectral/Spectral-ExtraLightItalic.ttf
/usr/local/texlive/2020/texmf-dist/fonts/truetype/production/spectral/Spectral-ExtraBoldItalic.ttf
/usr/local/texlive/2020/texmf-dist/fonts/truetype/production/spectral/Spectral-SemiBold.ttf
/usr/local/texlive/2020/texmf-dist/fonts/truetype/production/spectral/Spectral-LightItalic.ttf
/usr/local/texlive/2020/texmf-dist/fonts/truetype/google/noto/NotoSerif-Medium.ttf
/usr/local/texlive/2020/texmf-dist/fonts/truetype/google/noto/NotoSans-CondensedItalic.ttf
/usr/local/texlive/2020/texmf-dist/fonts/truetype/google/noto/NotoSans-ExtraCondensedSemiBold.ttf
/usr/local/texlive/2020/texmf-dist/fonts/truetype/google/noto/NotoSans-SemiCondensedBold.ttf
/usr/local/texlive/2020/texmf-dist/fonts/truetype/google/noto/NotoSansMono-Regular.ttf
/usr/local/texlive/2020/texmf-dist/fonts/truetype/google/noto/NotoSans-ExtraCondensedLight.ttf
/usr/local/texlive/2020/texmf-dist/fonts/truetype/google/noto/NotoSans-SemiCondensedLight.ttf
/usr/local/texlive/2020/texmf-dist/fonts/truetype/google/noto/NotoSans-MediumItalic.ttf
/usr/local/texlive/2020/texmf-dist/fonts/truetype/google/noto/NotoSansMono-SemiCondensedMedium.ttf
/usr/local/texlive/2020/texmf-dist/fonts/truetype/google/noto/NotoSans-CondensedLight.ttf
/usr/local/texlive/2020/texmf-dist/fonts/truetype/google/noto/NotoSans-Black.ttf
/usr/local/texlive/2020/texmf-dist/fonts/truetype/google/noto/NotoSans-Bold.ttf
/usr/local/texlive/2020/texmf-dist/fonts/truetype/google/noto/NotoSans-ExtraCondensedThinItalic.ttf
/usr/local/texlive/2020/texmf-dist/fonts/opentype/ibm/plex/IBMPlexMono-TextItalic.otf
/usr/local/texlive/2020/texmf-dist/fonts/opentype/ibm/plex/IBMPlexMono_Thin.otf
/usr/local/texlive/2020/texmf-dist/fonts/opentype/public/ebgaramond/EBGaramond-SemiBold.otf
/usr/local/texlive/2020/texmf-dist/fonts/opentype/public/libertinus/LibertinusSans-Regular.otf
/usr/local/texlive/2020/texmf-dist/fonts/opentype/public/libertinus/LibertinusSans-Italic.otf
/usr/local/texlive/2020/texmf-dist/fonts/opentype/public/libertinus/LibertinusSerifDisplay-Regular.otf
/usr/local/texlive/2020/texmf-dist/fonts/opentype/public/libertinus/LibertinusSans-Bold.otf
/usr/local/texlive/2020/texmf-dist/fonts/opentype/public/libertinus/LibertinusSerif-Semibold.otf
/usr/local/texlive/2020/texmf-dist/fonts/opentype/nowacki/kurier/Kurier-Medium-Regular.otf
/usr/local/texlive/2020/texmf-dist/fonts/opentype/nowacki/kurier/KurierCond-Regular.otf
/usr/local/texlive/2020/texmf-dist/fonts/opentype/nowacki/kurier/KurierLight-Regular.otf
/usr/local/texlive/2020/texmf-dist/fonts/opentype/nowacki/kurier/Kurier-Regular.otf
/usr/local/texlive/2020/texmf-dist/fonts/opentype/nowacki/kurier/KurierCondLight-Regular.otf
/usr/local/texlive/2020/texmf-dist/fonts/opentype/ibm/plex/IBMPlexSerif-BoldItalic.otf
/usr/local/texlive/2020/texmf-dist/fonts/opentype/ibm/plex/IBMPlexSans-Medium.otf
/usr/local/texlive/2020/texmf-dist/fonts/opentype/ibm/plex/IBMPlexSans-SemiBoldItalic.otf
/usr/local/texlive/2020/texmf-dist/fonts/opentype/ibm/plex/IBMPlexMono-MediumItalic.otf
/usr/local/texlive/2020/texmf-dist/fonts/opentype/ibm/plex/IBMPlexMono-Bold.otf
```

Compile Error. Sorry, your LaTeX code couldn't compile for some reason. Please check the errors below for details, or view the raw log.

```

Fatal    /usr/local/texlive/2020/texmf-dist/tex/latex/fontspec/fontspec.sty, line 45
Package fontspec Error: The fontspec package requires either XeTeX or
(fontspec)      LuaTeX.
(fontspec)
(fontspec)      You must change your typesetting engine to,
(fontspec)          e.g., "xelatex" or "lualatex" instead of
(fontspec)          "latex" or "pdflatex".
(fontspec)

Type <return> to continue.
...
I.45 \msg_fatal:nn {fontspec} {cannot-use-pdftex}

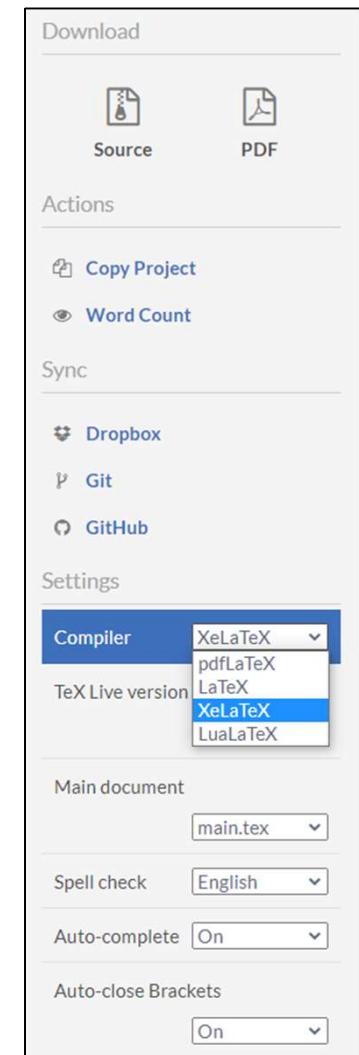
/usr/local/texlive/2020/texmf-dist/tex/latex/fontspec/fontspec.sty, line 45
Emergency stop.
<read *>

I.45 \msg_fatal:nn {fontspec} {cannot-use-pdftex}

*** (cannot \read from terminal in nonstop modes)

==> Fatal error /usr/local/texlive/2020/texmf-dist/tex/latex/fontspec/fontspec.sty occurred, no output PDF file produced!

```



Т	Т	Т	Н	Б	М	С	Ү	К	К
Т	Н	Н	Т	А	Е	Е	Н	Л	У
П	С	Ф	І	Б	Д	Р	Н	У	Р
Т	Ч	Н	Л	О	О	Д	Р	Б	И
С	С	Е	Р	Ч	В	Ц	А	Н	Ц
О	В	Ү	Л	К	Ү	Е	І	И	А
Б	О	Е	Р	А	Й	Р	Р	К	Д
А	В	А	Н	Л	Ү	Н	А	А	Т
К	Ц	В	А	М	Н	Д	І	Е	Ј
А	А	К	О	Р	О	В	А	Т	С

- Arabic is written right-to-left
- Letter forms can change based on position in word

ب + ا = بَا

م + ا = مَا

- Diacritic voweling

كَ

كَا (ا + كَ)

```
\usepackage{arabtex}
\usepackage[utf8]{inputenc}
\usepackage[LFE,LAE]{fontenc}
\usepackage[arabic]{babel}
```

Initial Products!

S	P	T	H	D	D	O	G	C	S
Y	N	T	O	د	ق	A	N	F	A
L	E	E	T	م	ج	P	C	G	خ
H	A	R	R	ر	ا	N	L	C	ر
ف	L	E	W	R	ج	Y	R	O	و
ر	T	T	A	L	ا	R	R	U	ف
ا	I	H	E	C	ق	ع	S	L	ر
ش	O	F	n	ح	ل	ة	E	R	ل
ة	E	b	ر	ق	ب	ة	ك	ل	ب
ا	l	f	ا	ر	ف	ل	و	ة	R

ض	ص	م	س	ب	ب	ص	م	ر	ض
ى	ن	ة	ص	ق	د	ا	ي	ن	ا
ش	ز	ز	ة	م	ج	ص	ر	ن	خ
س	ا	ض	ض	ر	ا	ي	ش	ر	د
ف	ش	ز	ط	ض	ج	ي	ض	ص	و
ر	ة	ا	ض	ض	و	ا	ض	ض	و
ا	س	ز	ر	ق	ع	س	ل	ض	ي
ش	ص	س	ن	ح	ل	ة	ز	ض	ش
ة	ز	ب	ق	ر	ة	ب	ك	ل	ب
ا	ل	ف	ر	ا	و	ل	ة	ض	و

Filler-letters were automatic and **required manual change**...
Hard to do when some letters **overlapped with the Latin alphabet!**

I would like to know how to or if you could change the language (preferably for output in LaTeX) to accommodate non Latin alphabets, particularly the filler letters that get generated.

That's very easy to do! I've added an "alphabet" field at the top, to change the characters used to fill in the rest of the grid. For the Latin alphabet they're weighted by their relative occurrence in English, but if you change it then it just makes each character equally likely.

Alphabet:

Words:

Grid size:

↖ ↑ ↗

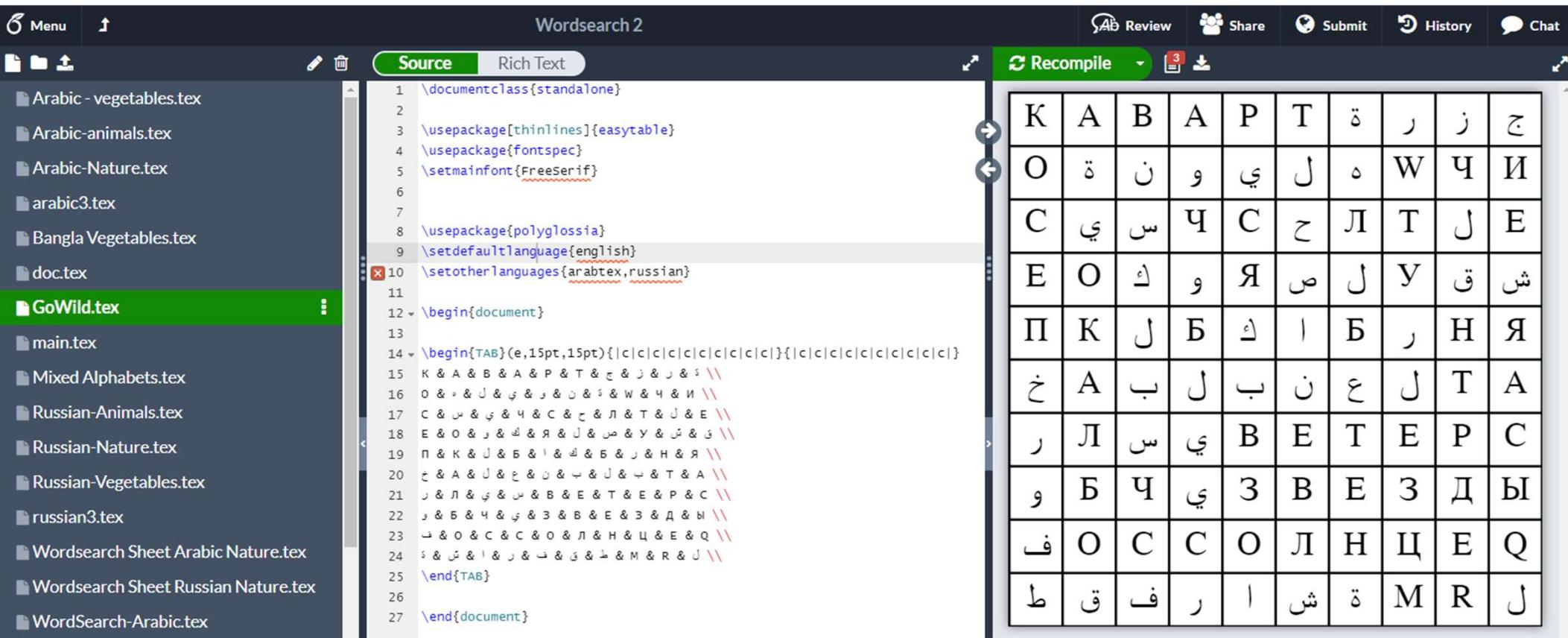
Directions: ← →

↙ ↓ ↘

К	А	В	А	Р	Т	ة	ر	ز	ج
О	ة	ن	و	ي	ل	ه	W	Ч	И
С	ي	س	Ч	С	ح	Л	ت	ل	ء
Е	О	ك	و	ي	أ	ص	ع	ق	ش
П	К	ل	ب	ك	ا	ب	ر	ن	ي
خ	أ	ب	ل	ب	ن	ع	ل	ت	أ
ر	ل	س	ي	س	В	Е	ت	إ	ر
و	ب	Ч	ي	З	В	Е	ز	د	ي
ف	О	С	С	О	ل	Н	Ц	ئ	ق
ط	ق	ف	ر	ف	ش	ة	M	R	ل

ع	ء	ك	د	ج	أ	ن	م
م	ا	س	ر	ض	ث	ا	ش
م	و			ا	م	د	
ف	ل	م	ر	ه	أ		
و	ي		ل	ج	ج		
س	ا	ل	ئ	م	ف	ك	
ا	د	ف	د	د	د		
ي	ض	و	ف	د	ئ	س	
ؤ	س	و	ا	ا	ج	ع	ئ
ئ	ا	ص	س	ي	د	خ	أ

ق	د	د	أ	م	ئ	م	أ	د	ق
س	و	ف	ج	أ	ض	ب	د	ف	و
س	ا	ن	ك	أ	س	ر	ص	د	ك
د	ه	د	ج	أ	د	ئ	و	ه	د
س	ا	س	ك	ي	أ	د	ج	م	ف
س	ك	و	ك	أ	ء	أ	د	ج	ج
د	ع	د	م	ئ	ج	ض	ء	م	ف
ج	س	ت	م	أ	أ	خ	ت	س	ج
أ	و	أ	و	ئ	د	ؤ	ي	ؤ	و
ئ	ف	ن	ؤ	ء	س	ئ	ت	ر	ه



Wanted to make an actual sheet, not just standalone images!

Природа

В	Е	Т	Е	Р	П	Г	Р	Л	Е
А	С	Р	Е	К	А	Е	О	Ш	Ы
М	Д	Е	Р	Е	В	О	С	Р	Ш
О	С	М	Ы	О	Р	П	Г	О	А
Б	С	Л	Б	Т	С	Н	Ы	Р	К
Л	Л	Е	У	О	Р	Д	А	Б	Н
А	Н	Д	Л	Н	З	А	С	Ш	Ы
К	В	Н	Л	Е	А	Н	В	М	Р
О	Ц	Т	В	Л	Ы	А	Ф	А	Н
Е	К	З	Ф	Д	М	Л	И	Б	Т

ветер луна река
гора небо солнце
дерево облако трава
звезды песок трава

Овощи

И	П	О	М	И	Д	О	Р	П	О
Р	Е	Д	И	С	И	Ч	Ы	О	Ь
Г	Л	Л	Ш	Г	О	Е	Б	М	К
Л	У	К	С	В	Г	Ч	Р	О	А
Г	К	А	Т	С	У	Е	О	Р	Б
Р	И	П	Ы	П	Р	В	К	К	А
И	О	У	К	А	Е	И	К	О	Ч
Б	Н	С	В	Р	Ц	Ц	О	В	О
О	П	Т	А	Ж	В	А	Л	Ь	К
Г	П	А	Ы	А	Ы	Ь	И	Н	П

брокколи лук редис
гриб морковь спаржа
кабачок огурец тыква
капуста помидор чечевица

Животные

Р	Б	К	Р	Е	В	Е	Т	К	А
Т	Е	Л	К	О	Р	О	В	А	Ы
В	Л	Л	О	Ш	А	Д	Ь	Р	А
Б	К	В	А	Б	О	Ч	К	А	Г
М	А	К	А	Г	Л	И	С	А	А
Б	Р	К	С	А	Б	Ш	Ц	Г	А
Л	Т	В	Л	Ф	П	В	Р	Г	Ы
У	Е	Е	Д	С	О	Б	А	К	А
Л	Ч	Л	К	В	Л	Ш	М	Д	Л
П	К	О	Ш	К	А	А	С	Д	Ь

бабочка креветка овца
белка лев пчела
корова лиса собака
кошка лошадь утка

Note: Some of these images have errors in the actual word search, such as word choices, typos, etc because these were early attempts

الحيوانات



النحل
أسد
بطة
بقرة

حصان
خروف
روبيان
سنجب

فرشة
قط
كلب
نحلة

خضروات



بروكلي
بصلة
جزرة
خيار

طماطم
عدس
فطر
قرع

كرنب
كوسة
يقطين

طبيعة



الشمس
القمر
النجوم
جبل

خشب
رمل
ربيع
سماء

غيم
نجيل
نجيل
نهر

Note: Some of these images have errors in the actual word search, such as word choices, typos, etc because these were early attempts

Confession!

I used Adobe InDesign to lay out the sheets...

Luckily, this community is great for learners!

- Sue & Cheryl's workshops
- Learn^{LA}T_EX.org website
- Overleaf help pages
- Community posts

```
17 %Title -----  
18 \begin{center}\Huge طبيعة\end{ce  
19 %begin{center}\fontsize{144px}\  
center}  
20 \vspace{2cm}  
21
```

```
42 %Word List -----
43 \vspace{1cm}
44
45 \Large
46 \hline
47 \begin{tabular}{ m{3.3cm} m{3.3cm} m{3.3cm} }
48
49 \\ النجوم & القمر & الشمس
50 \\ رمل & خشب & جبل
51 \\ غيم & سماء & ريح
52 \\ نهر & نجيل & مطر
53
54 \end{tabular}
55 \hline
56
57 \end{document}
```

طبيعة

ن	ص	ش	ش	ث	ب	غ	ر	ؤ	ت
ح	ض	ا	ل	ق	م	ر	ة	م	ؤ
ر	ي	ح	ن	ر	ف	ة	ز	ل	
س	م	ا	ء	س	ئ	ع	ن	ج	
ز	ا	ل	ش	م	س	ش	ص	ه	ب
ح	ي	خ	ش	ب	ط	خ	م	ر	ل
ق	ض	ب	ى	م	ب	ر	ت	ق	ن
ئ	ء	غ	ؤ	غ	ي	م	ر	ة	ج
ي	ة	و	ي	خ	ة	ئ	ا	ي	
ؤ	ا	ل	ن	ج	و	م	ث	ر	ل

النجوم	القمر	الشمس
رمل	خشب	جبل
غيم	سماء	ريح
نهر	نجيل	مطر

ПРИРОДА

В	Е	Т	Е	Р	П	Г	Р	Л	Е
А	С	Р	Е	К	А	Е	О	Ш	Ы
М	Д	Е	Р	Е	В	О	С	Р	Ш
О	С	М	Ы	О	Р	П	Г	О	А
Б	С	Л	Б	Т	С	Н	Ы	Р	К
Л	Л	Е	У	О	Р	Д	А	Б	Н
А	Н	Д	Л	Н	З	А	С	Ш	Ы
К	В	Н	Л	Е	А	Н	В	М	Р
О	Ц	Т	В	Л	Ы	А	Ф	А	Н
Е	К	З	Ф	Д	М	Л	И	Б	Т

ветер	гора	дерево
дождь	звезды	луна
небо	облако	песок
река	солнце	трава

Acknowledgments

R	E	R	N	V	R	Y	A	A	D	A	H	A	S	I
O	C	C	O	E	M	E	O	G	E	R	D	N	L	T
N	A	C	S	Y	T	E	E	E	E	E	M	A	A	
E	N	V	T	T	O	N	H	P	I	V	N	H	W	G
D	B	H	C	S	M	E	E	N	A	T	N	G	S	N
R	T	E	R	M	H	R	R	G	R	B	I	I	O	L
O	H	E	E	A	E	A	O	E	T	M	S	N	N	N
H	H	T	T	N	I	E	Q	U	U	R	I	U	-	T
A	A	H	S	C	H	R	I	S	T	I	A	N	P	O
E	G	A	B	L	B	M	O	H	A	M	E	D	E	R
P	E	M	O	A	N	A	R	T	L	H	S	H	R	C
I	C	C	R	U	S	E	O	O	C	L	A	T	F	C
U	L	G	I	D	M	E	H	R	E	Z	E	I	E	P
A	E	D	S	I	O	M	O	N	H	Y	O	S	C	B
U	H	I	T	O	H	O	H	H	H	G	A	S	T	O

T	A	E	R	V	I	A	H	C	C	Y	I	T	J	R
A	B	N	G	D	S	R	A	N	S	I	S	R	H	D
D	D	P	T	E	T	T	S	L	T	D	A	N	E	I
R	U	L	R	C	R	T	E	E	N	T	M	A	T	A
I	L	H	F	E	D	I	T	T	F	O	I	A	E	B
D	B	Y	T	I	B	O	A	A	R	N	Y	A	O	Z
T	A	C	U	K	W	O	I	O	F	S	A	M	R	H
S	Q	W	B	S	I	A	L	I	O	T	T	Y	A	Y
B	I	D	H	A	U	L	E	N	P	M	E	I	C	T
A	I	A	E	N	A	F	V	H	E	T	H	N	H	N
H	D	N	A	I	M	A	T	R	O	O	K	N	E	I
D	L	A	O	T	D	T	L	D	O	I	I	E	L	K
L	S	B	A	A	I	I	O	A	I	R	Y	H	E	E
C	B	G	I	C	C	E	E	R	M	E	U	H	D	R
S	B	O	M	E	W	L	R	U	D	Y	A	K	H	C

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Thank You!

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شُكْرًا!

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