

lyrics2pw

[Memorable Secure Password Generator]

lyrics2pw is an approach to generating memorable yet secure passwords using the information that Americans are least likely to forget - the lyrics to songs which are "stuck in their heads".

By generating acronyms from the words of song lyrics, dictionary-word-based password-cracking schemes are easily defeated. Other brute-force schemes can be expected to require large amounts of resources to successfully crack **lyrics2pw**-based passwords.

Even if a password-cracking scheme could understand the **lyrics2pw** method and could further predict which lyrics a given password utilizes, added complexity can still help to defeat these schemes while satisfying a variety of complexity policies.

lyrics2pw creates secure passwords that are so memorable, users can literally sing them out.

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Tutorial #1: How To Use The lyrics2pw Method

Step 1: Identify a song whose lyrics will be used to generate a password.

Step 2: Produce a selection of lyrics that will be used to generate a password. The password will be an acronym of each of the words of the text.

Step 3: Specify complexity rules. Possible rules include but are not limited to: which words to capitalize, where to add numbers, and how to add unrelated salt characters.

Step 4: Generate a password that you won't forget. You may need to sing the password out when recalling it later. Once you learn how to memorize a lyrics2pw-based password, you will no longer need this program.

Select Tutorial:

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- ☐ 3. Complexity Rules: Capitalization
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- ☐ 6. View lyrics with AZLyrics
- ☐ 7. Watch on YouTube
- ☐ 8. Download .mp3 with Google
- ☒ (Use Text-To-Speech)

[Read Text-To-Speech Now!](#)

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Tutorial #2: lyrics2pw Benefits

Some benefits of lyrics2pw include:

Method concept is simple yet powerful - just a few rules create many passwords that are secure and easy to remember while also satisfying a variety of complexity policies.

Well-designed GUI fits into a footprint of less than 900x700 pixels and resizes intelligently.

lyrics2pw program can be used to download backup copies of songs the user already owns.

Unique packaging system provides for an interesting user installation experience.

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Step 1 (optional): Enter a song title and / or artist for various searches:

Kylie Minogue - Can't Get You Out Of My Head

[View lyrics with AZLyrics](#)[Watch on YouTube](#)[Download .mp3 with Google](#)

Step 2: Type out or paste lyrics (or other multi-line text) here:

**I just can't get you out of my head
Boy your loving is all I think about
I just can't get you out of my head
Boy it's more than I dare to think about**

Step 3: Specify complexity:

☐ Do not use capitalization

☒ Capitalize first word per line

☐ Capitalize all words per line

☐ Do not use numbers

☒ Use line numbers

☐ Use word numbers

☒ Insert leading zeros

☐ Do not add salt

☒ Add salt after lines

☐ Add salt after words

Salt character(s):

,

Result: Your lyrics2pw-based password is generated here:

Ijcgzoomh01,Byliaita02,Ijcgzoomh03,Bimtidtta04,

lyrics2pw Required Dependencies:

1. **manifest-lyrics2pw-embryo.py** (this file exists in current directory)
2. **python3**
3. **Qt5 and PyQt5**
4. **g++** (available in system path)
5. **Python Win32 Extensions** (optional - provides Text-To-Speech support)

lyrics2pw Manifestation (Installation) Instructions:

Please see the `readme-lyrics2pw.txt` file for details.

Acknowledgments:

The following resources were indispensable in creating this program:

“Automate the Boring Stuff with Python” by Al Sweigart
<https://automatetheboringstuff.com/>

“Google hack to instantly search for files”
<http://www.techrepublic.com/blog/it-news-digest/google-hack-to-instantly-search-for-files/>

“Why can't I use “Speech.SpVoice” instead of “SAPI.SpVoice” with python and win32com?”
<http://stackoverflow.com/questions/35222346/why-cant-i-use-speech-spvoice-instead-of-sapi-spvoice-with-python-and-win32>