

# Password Maker Overview

Password Maker is software that creates complex passwords from easy to remember.

As the basic method,

- Two keywords

- One keyword and one file

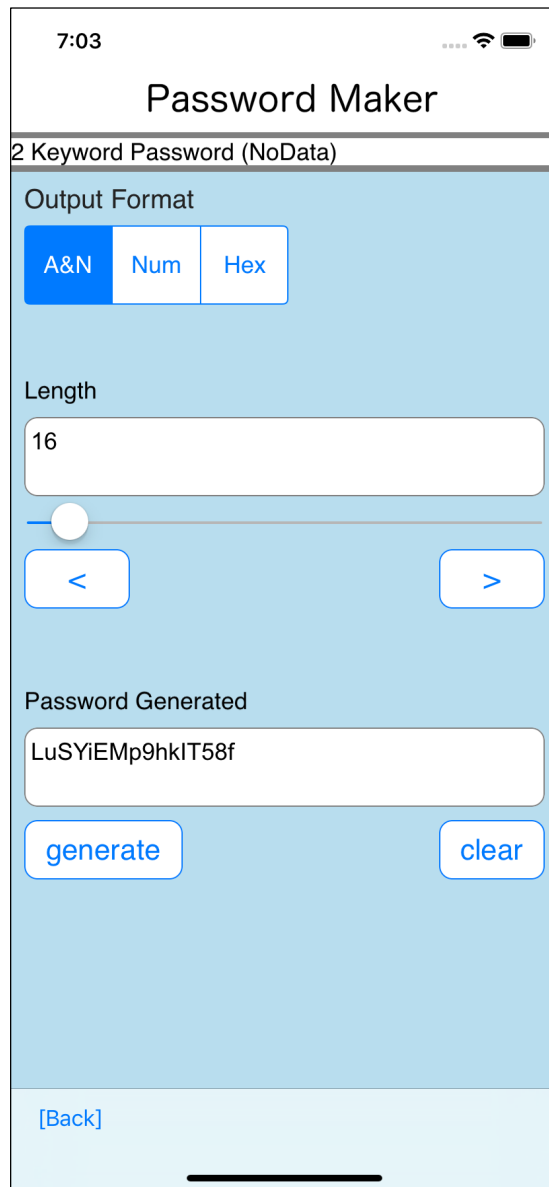
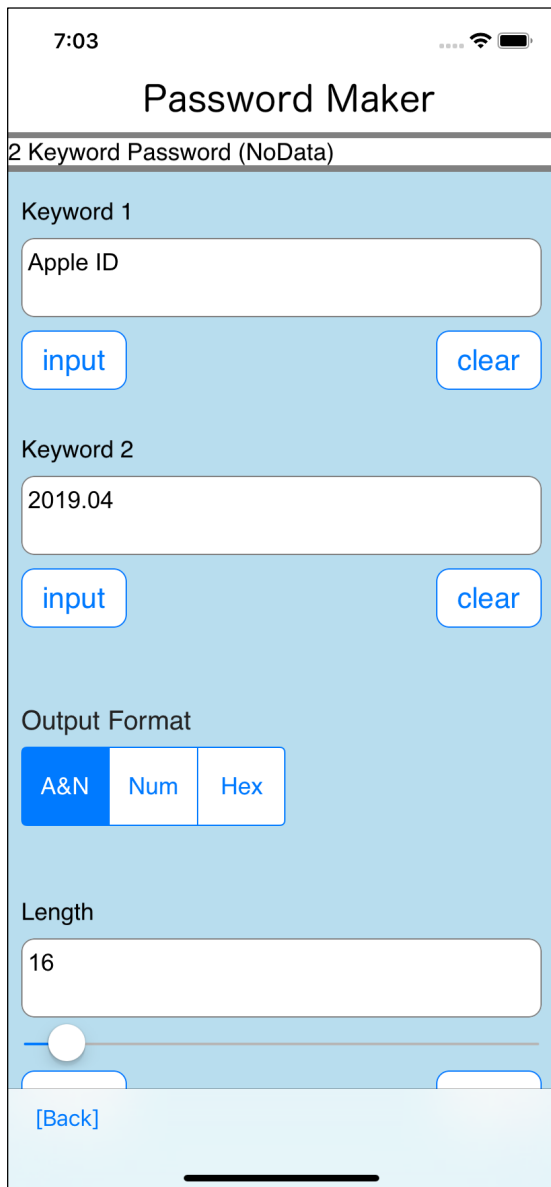
- Two files

it generates a complex password from them.

In addition, it supports the method of using "key file" together with these.

Keywords and files are, in a sense, something that is easy to guess.

The generation method using the "key file" together is to shake off the analogy.



In this way,

Keyword 1    Apple ID

Keyword 2    2019.04

Length        16

from these, the password

LuSYiEMp9hkIT58f

is generated.

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# Password Maker

## 2 Keyword Password (with Keyfile)

Keyfile Filename

Keyfile.bin

select

clear

Password (for decrypting Keyfile)

Aaaa

input

clear

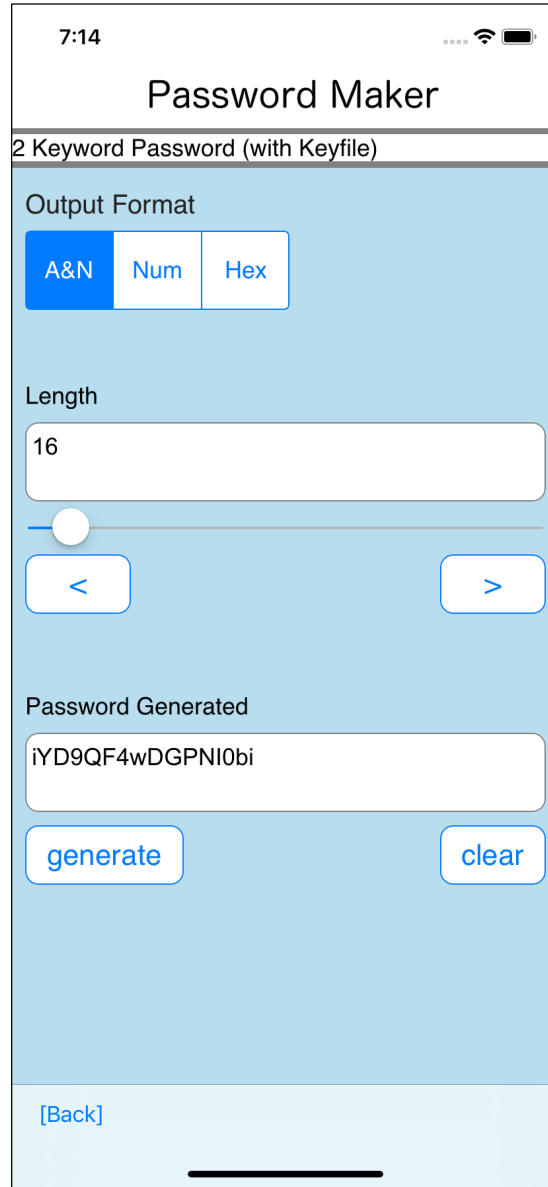
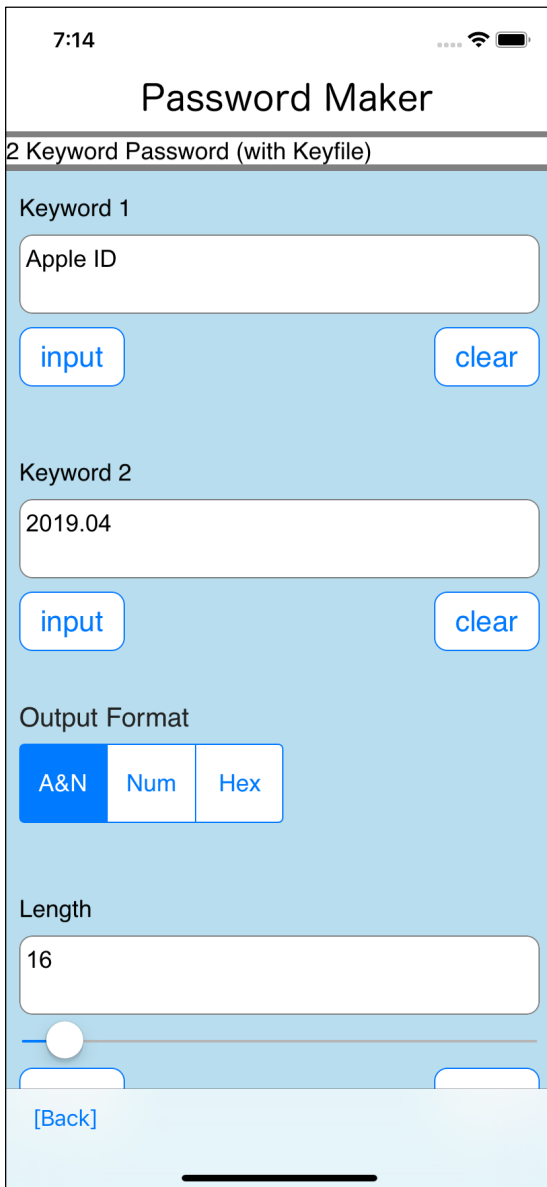
Keyword 1

input

clear

Keyword 2

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Also, in this way, when using a "key file",

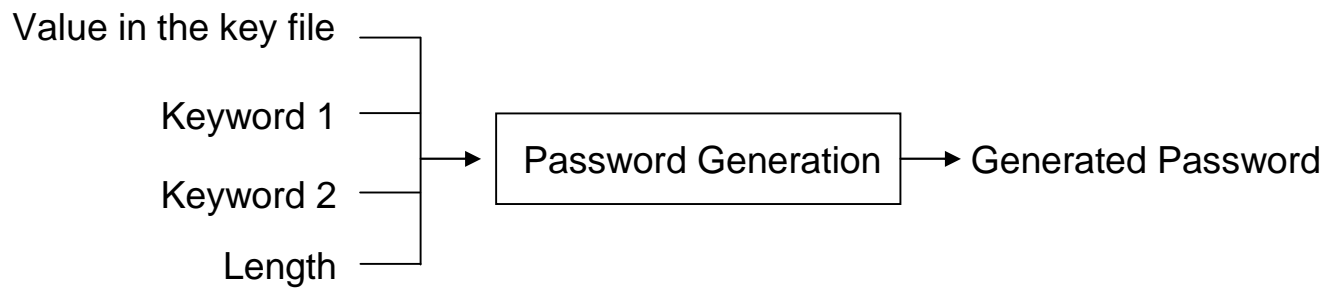
Keyfile	Keyfile.bin
Keyword 1	Apple ID
Keyword 2	2019.04
Length	16

from these, the password

iYD9QF4wDGPNI0bi

is generated.

In password generation with “Key file”,



like this,

value in the key file

also participates in password generation.

As a result,

It is the person who have the key file can generate the password.

it will be like this.

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## Password Maker

Creating Keyfile

Keyfile Filename (saving filename)

Password (for encrypting)

Random Number Generate

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## Password Maker

Confirming Keyfile

Keyfile Filename

Password (for decryption)

Content

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The value in the key file Keyfile.bin used in this example is

```
E8E9B2B76002E4DBC019D84969671EC9  
7D89FF5BE537EA068EDB16BCC28142C9
```

this 32-byte value.

This 32-byte value also participates in the generation of the password iYD9QF4wDGPNI0bi.

The password iYD9QF4wDGPNI0bi can only be generated by people who have this 32-byte value.

The key file Keyfile.bin is created in such ways:

32-byte value

E8E9B2B76002E4DBC019D84969671EC9  
7D89FF5BE537EA068EDB16BCC28142C9

AES-256-Keywap is applied with this value and the wrapped value is encrypted with AES-256-GCM.

Cipher text created using AES-256-GCM can detect such things:

The decryption key is wrong.

Cipher text has been tampered with.

If this is detected, password generation using a key file does not generate a password.