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## **Homoglyph Attack Generator**

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This app is meant to make it easier to generate homographs based on Homoglyphs than having to search for look-a-like character in Unicode, then coping and pasting. Please use only for legitimate pen-test purposes and user awareness training. I also recommend webapp developers use it to test out possible user impersonation attacks in their code. This is still a work in progress, so please send me suggestions (especially for new Homoglyphs to add). While this tool was designed with making IDNA/Punycode names for putting into DNS to display foreign characters in a browsers URL bar, it can be used for other things. Try ignoring the IDNA/Punycode stuff and just making look alike user names for systems that accept Unicode. I made this tool to easily generate homographs based on homoglyphs in Unicode and to test out how different apps display them. It seems like a lot of modern browsers have gotten better at warning the users of attack, but I'd love to hear experiences about other apps that accept Unicode/Punycode/Internationalized Domain Names, especially webapps.

For more information see my <u>Paper Proposal for "Out of Character: Use of Punycode and Homoglyph Attacks to Obfuscate URLs for Phishing"</u>.

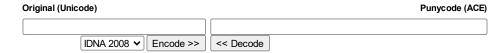
<b>1st</b> , type in a name to look like:	
<b>2nd</b> , choose homoglyphs to use:	
<b>3rd</b> , Output will be something like this:	Output appears here.
4th submit so PHP can generate the IDNA/Punycode:	Submit

Unicode URL to give out:

Homoglyph Attack Generator and Punycode Converter - 31/10/2024 16:27 http://www.irongeek.com/homoglyph-attack-generator.php

## Encoded label to set up in DNS:

Below is phlyLabs original converter if you want to try taking the Homograph back and forth:



PHP code based on examples and libraries from phlyLabs Berlin; part of  $\underline{phlyMail}$  Also thanks to  $\underline{http://homoglyphs.net}$  for helping me find more glyphs.

Char	Homoglyphs
!	!!!
	n ,, n = 1
\$	\$ \$
%	% %
&	& &
<u>'</u>	1 1
(	( ( (
)	))))
*	* * *
+	+ +
,	,,,
-	M □ □
. ]	
/	11///       / /
0	0 O o O o O o O S
1	1   1
2	2 2
3	3 3
4	4 4
5	5 5
6	6 6
7	7 S幕 7
8	8 8 8
9	9 9

Char	Homoglyphs
:	11;+++1
;	;;;
<	< < <
=	= 1 □
>	>>>
?	??
@	@ @
[	] ]
\	\ \
]	] ]
^	^ ^
<u> </u>	, ,
а	AaÀÁÂÃÄÅàáâãäåαAαaA A a
b	Вьвввввв в р
С	CccCccCcSDC c
d	DdĎďĐđddDdDd
е	<u>EeÈÉÊËéêëĒēĔĕĖėĘĚĕEEeEE e</u>
f	FfF F f
g	GggcGlGG g
h	HhHHHHH h
i	liltllililis写I i
ز	JjjJjJ J
k	KKKKKKK K

Char	Homoglyphs
=	
<u> </u>	LILITELI L 1
m	M m M M M M M M m M m
n	Nn n N N n
0	0 O o O o O o O S
р	РрРрРРРР
q	Qq Q Q q
r	RrrhRRR r
s	SsSsSSS s
t	TtTTTT t
u	<b>υ</b> սμυ <b>Ա</b> ՍՍ <b>Ս</b> ս
v	VvvV v V V v V v
w	WwwWWw
х	XxXxXxX x
У	ҮуүҮүуҮ У
z	ZzZZ Z z
{	{ {
	[11]
}	} }
~	~~ ~
ß	ßö
ä	ÄÄ
ö	ÖÖ

## Changes:

11/28/2017: Added d as sugested by rockethamster. 3/11/2012: Added option to use 'Right-To-Left Override' (U+202E) so you can do some stupied EXE tricks, and added a linkless output so you can copy & paste your homography without formatting. 3/11/2012: Added / for /. 4/3/2012: I found a list of IDN blacklisted characters on Mozilla's site and added them. I also added a table of the homoglyphs I'm using.

3/6/2012: • was also suggested by @Voulnet.

3/5/2012: @Voulnet suggested I add Arabic letter I. I put it in for I, i, | and 1.

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