



24 teams this year!

4:

5:

As of Noon

Team

hammer brothers

MONKEYTACOS!!

Three Blind Mice

Hamberder Helpers

Team FDG

Team LMB

OSU Cyber

Stage Prizes:

1: Hammer Brothers
2: Three Blind Mice
3: Hammer Brothers

Actively played

Thanks for registering!

stegon00bz In it to lose it!!! **Team Oyster** upurdevnull tc4jaesks Bradford Law Nerfherders Team USMA f0k0l0 FTOS Team M Team PLDC Team Herp-a-derp Evan Williams Team TastyKakes washington **Pretty Floral Bonnet**

Stage 1: AUG0720170401 Movie posters with "weird barcodes?"

- 4 movie-themed posters, each with different overt datestamp
- Barcode-like bars on left and right hold a hidden datestamp
 - Created with VisualSteganography Python script
- Take a picture, overlap, and "Great Scott!"

OATECODE: NUS CI ZI II CUCI I

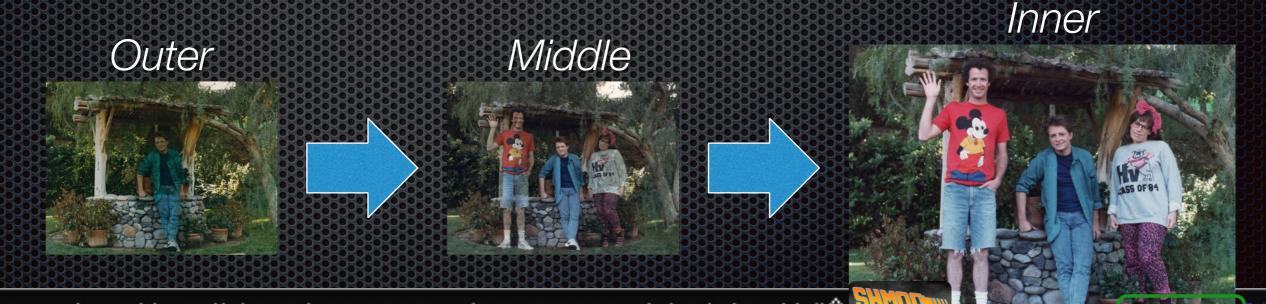
Stage 2: FEB0320130204 Ajax-powered website resizing/re-rendering

- Visit any page of contest website
- Resize browser window to past 3500 pixels wide, and new graphic appears containing the datestamp



Stage 3: APR0220110700 Embedded PNG with mysterious payload

- Using photos from the movie, start with mostly faded version
- Inner JPEG contained within Middle PNG
- Outer PNG contained Middle PNG XOR'd with 0xFF



@6Traversing the /timeplane reveals an assembled truthÿ0

Stage 4: OCT0720140105 Travel through time with GitHub

-	t #45: L	С.	
_	t #64: a puntu cor		
-	t #37: N ountu cor		
	t #103: ountu cor		
-	t #110: puntu cor		
	t #105: puntu cor		
	t #114: Suntu cel	_	

Retraced all 343 commits from Cédric Bonhomme's *Stegano* Python GitHub project as source, checked into misterfusion's repo

Ticket numbers with numeral ASCII to hold the clue; space/tab-encoded ASCII at end of *all* Python files for datestamp, just grab one

clue="Shifts.-*.in`-_time* /,bring%@-_+accuracy.*~to.-!(the}%.final@*`;*message:.^_-"

Stage 5 FQDN in:

codeword="1412643900" #"0CT0720140105"

20 00

00

SECRETS

🖹 delorean

Create delorean

0 = space 1 = tab

-			-0-2-	2020		$\phi \rightarrow \phi$	jo lo lo	<u> </u>
9	20	20	20	09	1	•	••	
2	.00	00	20	20	Junonono			

Stage 5: JAN0820120700 Special NTP service exfil'ing secrets

- AWS-hosted Python NTP server at delorean.us.to
- Acts like a normal NTPD dishing overt time updates
- Attempt to DoS it, and it responds with a Kiss of Death response with datestamp & fragment of clue

Hit 7 times total to get full clue

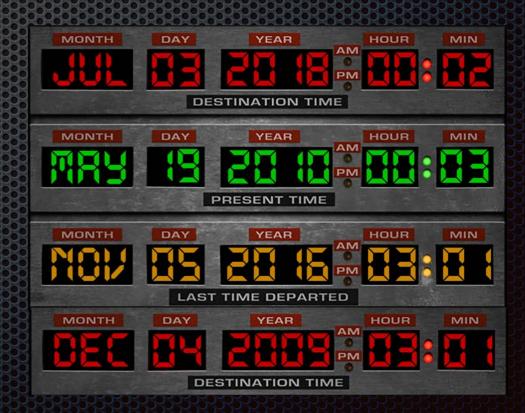
20	KOKOKO	COXOXC	DXOXO		XOXO	XOXO				XOXO	XOXO	<0×0×		0.00	OXOX	DXOXOX	0.0.0.0.0.0.0.0	XOXOXO
	Refe	erer	nce	Tir	nest	tamp): J	Jan	1,	197	70 (00:0	00:0	00.0	000	00000	00 UTC	
	Orig	jin	Tin	nest	tamp	o: 3	Jan	8,	20:	12 (07:0	00:0	00.0	000	0000	000 L	JTC	
	Rece	eive	e Ti	imes	star	np:	Jar	1 20	, 20	019	15	:59	40.	595	5112	2800	UTC	
	Trar	sm	it 1	Time	esta	amp	Ja	an 2	0, 3	2019	9 15	5:59	9:40	.60	0604	4769	UTC	
-																		_
0	7e	50	49	19	c0	a4	7e	50	49	91	a8	64	08	00	45	00	~PI~P	I
0	00	4c	ec	55	00	00	28	11	b9	de	12	dd	23	79	ac	14	.L.U(.	
0	0a	03	00	7b	d3	5c	00	38	b7	38	1c	00	0a	00	00	00	{.\.8	.8.
0	00	00	00	00	00	00	4d	4f	4e	54	00	00	00	00	00	00	MO	NT.
0	00	00	d2	b3	bd	70	00	00	00	00	df	ef	19	6c	98	59	p	
0	50	00	df	ef	19	6c	9b	25	c0	00							Pl.%	

"MONT", "HS B", "RING", "ORD", "ER, ", "INDE", "XED ", "BY S", "LIDE", "S, L", "INES", ", AN", "D WOR", "DS--"

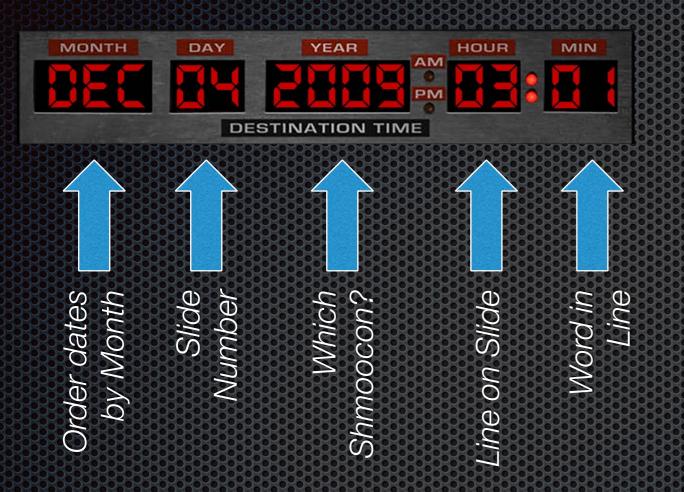
Code words are all cleverly selected datestamps

AUG0720170401 FEB0320130204 APR0220110700 OCT0720140105 JAN0820120700

Plus the overt ones on the posters...



Datestamps -> Slide Pointers "Months bring order..."



WORD	Mon (Index)	Day (Slide #) 00-28	Year (Con Year)	Hour (Line #) 00-23	Min (Word #) 00-59
procrastinating	JAN	08	2012	07	00
l33t	FEB	03	2013	02	04
shmoo	APR	02	2011	07	00
hackers	MAY	19	2010	00	03
exploit	JUL	03	2018	00	02
time	AUG	07	2017	04	01
travel	ост	07	2014	01	05
with	NOV	05	2016	03	01
alcohol	DEC	04	2009	03	01

"procrastinating I33t shmoo hackers exploit time travel with <u>alcohol</u>"

Very Special Thanks

X PRAAXIS ENGINEERING

for their continued sponsorship, covering our expenses, materials, shirts, and prize!

Special Thanks

- Steven Speilburg & Universal, for not suing us (yet)
- No Starch Press, for coordinating gift certificates
- Not Just Signs, for super last-minute sign-printing
- FOSS Projects, like VisualSteganography, Stegano, LimiFly NtpServer & Brian de Heus' PNG technique
- Our Wives & Bosses, for permitting our annual hiatus
- Bruce & Heidi, for tolerating our endless shenanigans



The struggle is real **#hotelfail**

shmooganography@gmail.com

Presentation will be available on the contest website soon.

You gotta spread positivity around the con'...

Adam Reinhard

Let's keep being awesome to each other.

Two Shmoo HAMs