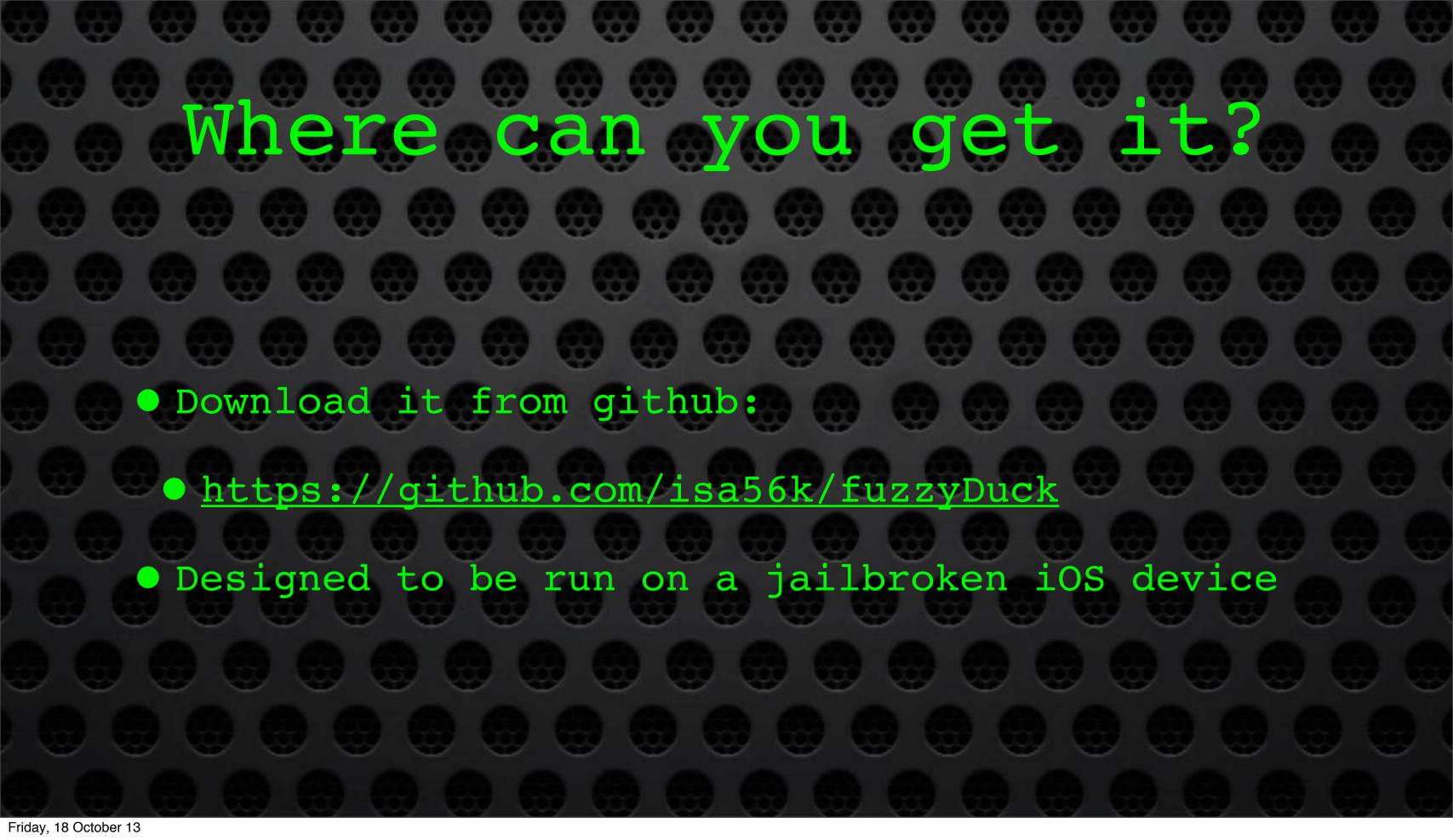


### Who am i? • isa56k 000000000 • Hobbiest hacker, bit more than a skiddie but long way from 133t... (Workin on it)! • Do a little bit of Obj C development and have been doing MDM stuff for a few years. • t:@isa56k ~ e:me@isa56k.com ~ w:www.isa56k.com

## What is fuzzyDuck?

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- fuzzyDuck.sh is a bash script wrapper for zzuf
  - Based on the examples in the iOS Hackers
    Handbook & stuff I learnt in #OpenJailbreak IRC
  - Designed to automate the fuzzing process and help find crashes and save for later inspection



#### How do you use it?

- Jailbreak Device, install OpenSSH, APT 0.7 Strict from cydia.
- Download // Copy to device // run

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- ./fuzzyDuck.sh <filename> <url> <port> <sleep>
- ./fuzzyDuck.sh fuzzThis.mov <a href="http://localhost">http://localhost</a> 3000 15
- Use screen to keep terminal session going. Can reconnect if ssh connection drops.

## What is it doing? (1/2)

 Checks for required software, downloads and installs (apt-get, wget, sbopenurl, lighttpd, zzuf)

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- Creates a test cases directory and a crashes directory
  - Starts a small http server to serve up test case

#### What is it doing? (2/2)

• Loops creating new test cases with zzuff:

- zzuf -s \$seed -r 0.0001:0.001 < \$testfile > \$testcasedir/\$testcase
- Then tests using sbopenurl to open testcase.
- If it finds crash copies test case and crash dump to crashes directory for later inspection.
- Keeps going till it falls over (kernel panic) or is killed off (ctrl+c).

## Issues • At the moment doesn't capture kernel panics all crashes. Only looks for crash in: /private/var/mobile/Library/Logs/CrashReporter/LatestCrash.plist Should also capture kernel panics from: /private/var/mobile/Library/Logs/CrashReporter/Panics

## What next?

- Fix the issues!
- Automate recovery from a kernel panic / reboot so that allows testing to continue uninteruppted
- Copy crash dumps to a central server that can then be reviewed with "crash wrangler" or similar?

# Suggestions / Quetions? • HELP! Always room for improvement! Happy to incorporate others ideas. how it works Friday, 18 October 13