

# CAPTURE THE FLAG

LAB

MISCHA MEIER

STEPHAN PLÖGER

USABLE SECURITY AND PRIVACY

25 SEP 2018



A Capture the Flag event is a information security competition.

- 6 to 48 hours
- International
- Usually on weekends

# CATEGORIES

- Cryptography
- Binary exploitation
- Reverse engineering
- Web security
- Computer forensic
- Something else?

## Challenges

### Exploitation

Tumblr 250	chips 300	Tonx 400	disrupt 400	it 450	fixe 450
---------------	--------------	-------------	----------------	-----------	-------------

### Forensics

deanse 400	chips 450
---------------	--------------

### Networking

messenger 100	XOXO 400
------------------	-------------

### Reversing

pour-over 200	squid 200	lo-6 200	messenger 250	High 300	chillwave 350
------------------	--------------	-------------	------------------	-------------	------------------

Powered by CTFd

Source: <https://blog.ctfd.io/>

# ATTACK & DEFEND



Source: Matthew Straubmuller <https://www.flickr.com/photos/imatty35/>

- Acquire required knowledge
  - ▶ technical
  - ▶ task design
- Create own tasks for CTF
  - ▶ task
  - ▶ writeup
  - ▶ check scripts

# INTERESTED?

- Selection of students based on their exposé
- Contact: [meierm@cs.uni-bonn.de](mailto:meierm@cs.uni-bonn.de) or [ploegers@cs.uni-bonn.de](mailto:ploegers@cs.uni-bonn.de)
- **Deadline for exposé: 2nd October**

# REFERENCES



**CTF TIME.**

***CTF? WTF?***

`https://ctftime.org/ctf-wtf/`



**USENIX.**

***USENIX ASE.***

`https://www.usenix.org/conference/ase18/workshop-program`