

CSE 365 Intro

Fall 2021
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Welcome to CSE 365!

- I hope you find it to be a *fun* class
- You don't need to know anything that wasn't in the official prereqs
 - You'll be able to pick up Python, C, *etc.* as we go
 - Same goes for the Linux command line
- This is an introductory course
- Not really a difficult course...
 - ...but it is a 300-level CSE course, no bite-sized chunks
 - It's like riding a bike, just start pedaling at the beginning and keep pedaling
- If something is not clear...
 - Read the instructions and source code, Google things, man pages
 - Ask a question in Piazza

A little bit about me...

- Research area is Internet freedom, broadly speaking
 - Mostly, right now that means VPN security and education
 - In the past I've done some Internet censorship measurement and tracking, and hope to do more in the future
- Part of the Biodesign Center for Biocomputation, Security, and Society, academic appointment is in SCAI

Syllabus in a nutshell

- Course website and Piazza
- Grade is based on three homework sets
- Use Linux and a repo
- Breakout sessions
- Cheating
- Security token
- Title IX

Why study cybersecurity?

- Obvious answers
 - It's required
 - Jobs
 - National security
- Less obvious answers
 - It's shaping world events
 - You could be part of that

Some thought experiments

- You're a reporter, activist, lawyer, academic, programmer, medical professional, someone who posts on social media, *etc.*
- You...
 - Send a message to a friend
 - Post something in a group chat
 - Cross a border
 - Open an email from your friend

- For each of these four things:
 - What kind of information controls might apply?
 - What does it have to do with things we'll cover this semester?

1. Send a message to a friend (or source, or colleague, or ...)

IOWA REPORTER GOES ON TRIAL IN CASE THAT RAISES PRESS...



Katie Akin

by **NPR News** **Scott Neuman**

3.08.21 1:45pm

An Iowa newspaper reporter arrested as she covered a Black Lives Matter protest last spring goes on trial Monday in a case that has drawn international concern over press freedom.

The *Des Moines Register* reporter, Andrea Sahouri, was arrested on May 31 as protesters clashed with police during a demonstration near a shopping mall in the Iowa capital.



2. Post something in a group chat (or on social media, or ...)



The Huanan Seafood Wholesale Market in Wuhan, Hubei Province. Photographer: Noel Celis/AFP via Getty Images [Source]

Livestreaming Platform YY Begins to Censor Keywords Related to an Unknown SARS-like Virus

A leaked document [revealed](#) that the Wuhan Municipal Health Commission (WMHC) issued a “gag order” on December 30, 2019 that prohibited medical workers from releasing any information regarding the outbreak to the public. On December 31, 2019, the [WMHC released a public notice](#) for the first time addressing recent pneumonia cases but rejected speculation of human-to-human transmission or infection among medical workers. On the same day, [YY began censoring keywords](#) referencing the then-unknown virus that displayed symptoms similar to SARS. These findings suggest that there was official pressure on social media companies to censor COVID-19-related content in late December.

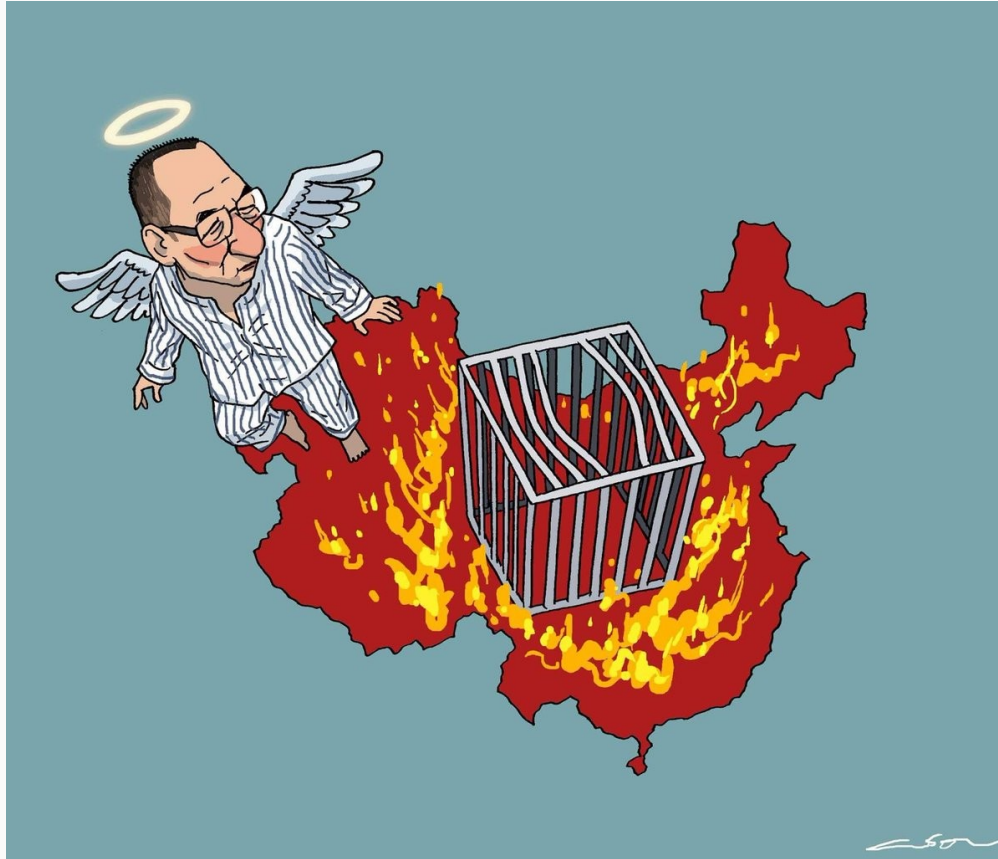
Keyword	Language	Translation	Date Found Censored
武汉不明肺炎	Simplified Chinese	Unknown Wuhan pneumonia	December 31, 2019
爆發sars疫情	Traditional Chinese	SARS outbreak in Wuhan	December 31, 2019
武汉海鲜市场	Simplified Chinese	Wuhan Seafood Market	December 31, 2019
武汉卫生委员会	Simplified Chinese	Wuhan Health Committee	December 31, 2019

Table 1: Sample censored keywords.



Censored image

<https://citizenlab.ca/2020/05/we-chat-they-watch/>



3. Cross a border (or get arrested, or stay in a hotel, or ...)

Maker of Snowden Documentary Sues U.S. Over Airport Detentions

by C. Mitchell Shaw July 15, 2015

Facebook

Twitter

LinkedIn

Email

Print



Award-winning documentary filmmaker Laura Poitras filed a lawsuit Monday against several federal agencies, claiming she was “searched, interrogated and detained more than 50 times at U.S. and foreign airports” by U.S. government agents, according to a report by *The Intercept*. Though she asked repeatedly why she was being being targeted, she was never given a reason. Even her 2013 Freedom of Information Act request has yet to be answered.



**4. Open an email from a friend (or
download an app, or do nothing,
or ...)**

tinyurl.com/8jxzuf7u

From: Rona Wilson <[REDACTED]>
To: va ravaraao <[REDACTED]>
Sent: Monday, 13 June 2016 6:18 PM
Subject: Re: Re: from kobad

this time I could download. But a corrupt file of a statement in the CLC letter head opened. only the letter head is readable. The text is all gibberish.

On 13 June 2016 at 16:13, va ravaraao <[REDACTED]> wrote:

not sure what the issue is... i am not too good with computers!
i remember someone told me about dropbox which works in my phone too

www.dropbox.com/s/87uw538ccja27v4/another%20victory.rar?dl=0

root@sandpond: /home/moderatorbackup

```
(1406841164) - Werewolves not unanimous
(1406841165) - Witch vote
(1406841198) - Witch poisoned group12
(1406841198) - These are group12s last words.
(1406841208) - It is day. Everyone, ['group1', 'group10', 'group11', 'group2',
'group3', 'group4', 'group5', 'group6', 'group7', 'group8', 'group9'], open your
eyes. You will have 30 seconds to discuss who the werewolves are.
(1406841209) - Day-townspeople debate
(1406841215) - group5-2
(1406841217) - group2-stop messing with the logs; chmod 777 /home/moderator/serv
er.py
(1406841217) - group6-2
(1406841219) - group1-yeh 2
(1406841223) - group8-lo! its always twelve
(1406841225) - group4-2
(1406841226) - group2-stop messing with the logs; chmod 777 /home/moderator/serv
er.py
(1406841231) - group4-2
(1406841231) - group9-its 9
(1406841232) - group11-u mean 12?
(1406841235) - group2-iyits not me pls
(1406841236) - group10-kappa
(1406841237) - group1-poor 12
```

:

```
$msg = "hello; chmod 777 log.txt"  
    `echo $msg`  
    echo hello; chmod 777 log.txt
```

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