### Team World Bot

An LHC Production:

Annie Lydens

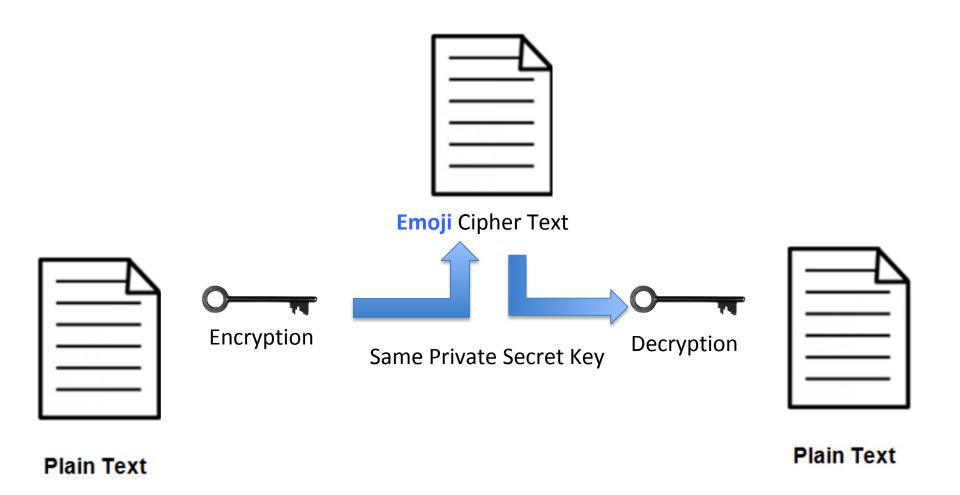
Cody Hegwer

James Covino

August 06, 2018

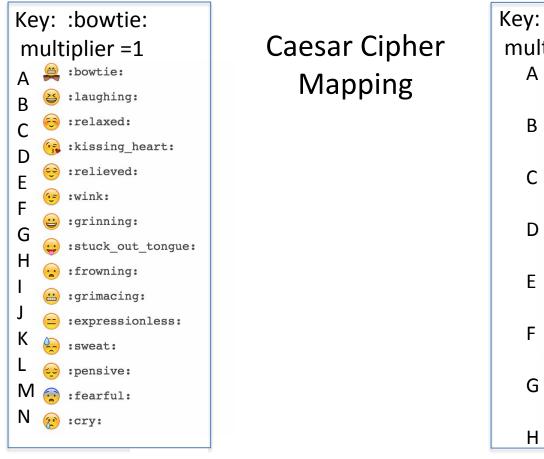


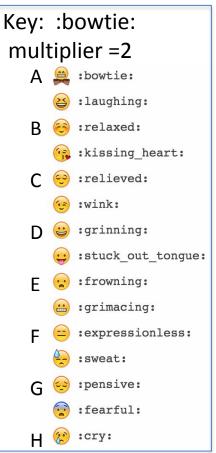
## Proof of Concept (POC)



#### **Encryption:**

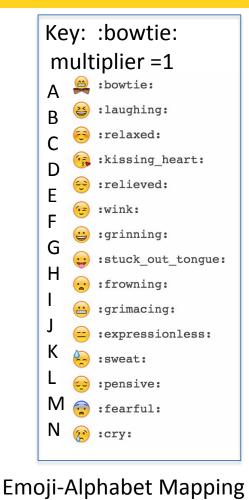
Users provides 'Text' and a key (An emoji and multiplier). Each letter in the alphabet is mapped to an emoji based on the key, and the input text is encrypted with the generated Emoji-Alphabet mapping

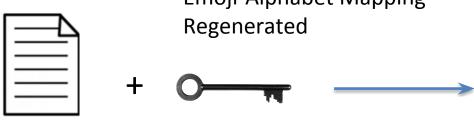






#### **Decryption:**





**Emoji** Cipher Text



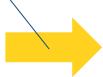
**Plain Text** 

## **Application**

**2.** Unprocessed message is passed to the backend via the form

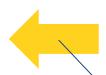
#### Front end:

**1.** User submits form with message to encrypt or decrypt



#### **Backend:**

3. Message is processed (encrypted or decrypted) with options



**4.** Processed message is returned to the front end and displayed to the user

# But does it work?





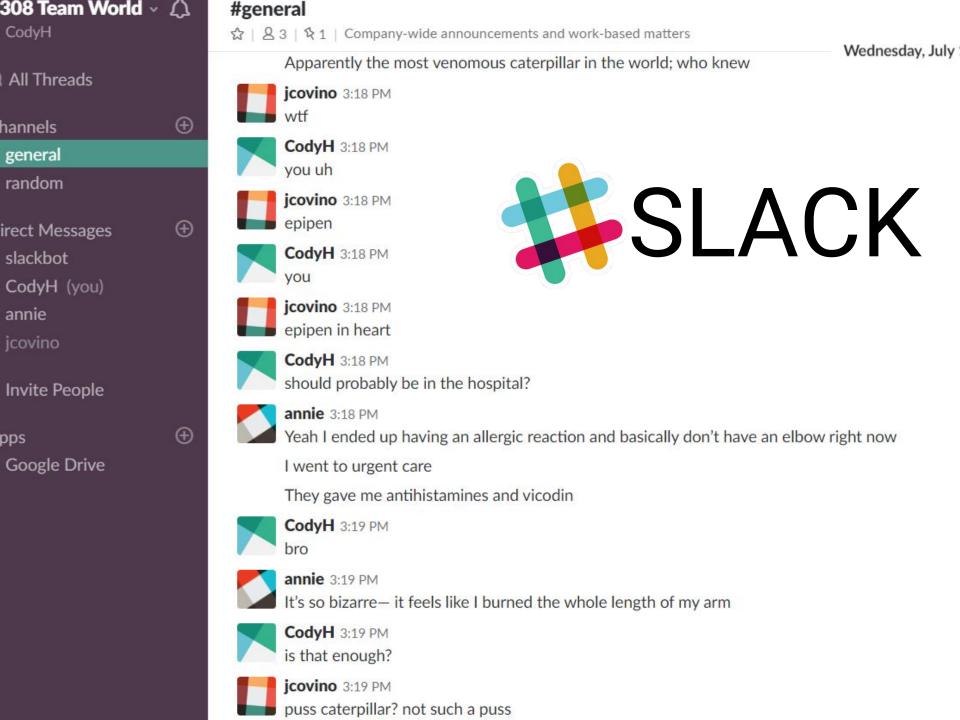
# What tools did you use?





# Communication





Done

Create wireframe of layout, and make it look nice!

Deploy app to Heroku

As a user, I want to decrypt an encrypted message

Add webhook so that pushing to Heroku deploys the application

Get decrypt.html up and running

Develop proof of concept for emoji cipher

Δ1

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СН

JC

As as user, I want to submit a form to the backend with text

AL

Get multiplier / key field in decrypt

+ Add another card

# Languages?

#### Languages

- Python 3
- Javascript
- HTML/CSS

#### **Frameworks**

- Bootstrap
- Flask

# Deployment?

- Git
- Github
- Heroku

# Other tools worth mentioning

- Pytest for testing
- Visual Studio
- Gimp 2 for incredible logo design

# Challenges encountered

- Spacing decrypted words
- Handling duplicate emojis in cipher
- "Double" word emojis
- Adding an emoji puzzle game
- Sqlite3 not supported on Heroku

# Demo time

Encryption

Decryption

Puzzle