# Lecture 4: CrypTool

## COSC362 Data and Network Security

CrypTool website and Youtube channel

### Spring Semester, 2021

# Motivation

▶ CrypTool is an open-source project that focuses on the free e-learning software CrypTool illustrating cryptographic and cryptanalytic concepts.

▶ CrypTool is worldwide the most widespread e-learning software in the field of cryptology.

# Outline

CrypTool project and CryptTool 2 software

# What is CrypTool?

▶ The CrypTool project aims to raise awareness and interest in encryption techniques for everyone.

▶ CrypTool 2 (CT2) is a modern e-learning program for Windows, which visualizes cryptography and cryptanalysis:

  ▶ It includes the encryption and cryptanalysis of ciphers, along with their basics and the whole spectrum of modern cryptography.

▶ We will use CT2 in our Labs 3, 4 and 7.

# Downloading CrypTool

Disclaimer: We will use CT2 so please download that version!

```
https://www.cryptool.org/en/ct2/downloads
```

# Using CrypTool

Disclaimer: This is the video you must watch for Lecture 4!

```
https://www.youtube.com/watch?v=dELT2-Vgsr8
```

# Additional material

▶ **CrypTool portal**: `https://www.cryptool.org/en/`
▶ **Wikipedia**:
  `https://en.wikipedia.org/wiki/CrypTool`
▶ **Youtube channel**: `https://www.youtube.com/`
  `channel/UC8_FqvQWJfZYxcSoEJ5ob-Q`
▶ **CT2 webpage**: `https://www.cryptool.org/en/ct2/`