Audio Forensics & Steganography

**Objective:**

Students will decode secret information hidden in .wav audio files using:

* **Morse code decoding by ear and visual wave analysis**
* **Spectrogram analysis to reveal hidden text or flags**

Challenge 1: Decode Morse Code from Audio

File: <https://mega.nz/file/7F802DDY#fs3o_5fFnGG-NmIbm1XCgbmSLgKsR2OSSAanYAhgupQ>

**Scenario:**  
A radio operator intercepted a suspicious transmission. Your mission is to:

1. Decode the audio.
2. Retrieve the message or flag.

**Solution**: <https://morsecode.world/international/decoder/audio-decoder-adaptive.html>

Challenge 2: Spectrogram Stego Message

File: <https://mega.nz/file/OJNm2JYa#jaMFTsEiKN8uI-Wfx-IHGsahVliGp-C_Rl9R2E1UhOQ>

**Scenario:**  
This audio sounds like white noise or music... but something is odd. You suspect a **visual message** is hidden in the **spectrogram**.

**Solution:** <https://academo.org/demos/spectrum-analyzer/>