# Sentiment Analysis

**Estimated Time:** 30 minutes

**Objective:** Research sentiment analysis.

**Description:** Sentiment analysis is the process of computationally identifying and categorizing opinions, usually expressed in response to textual data, to determine the writer’s attitude toward a particular topic. It has been used when tracking postings threat actors make to determine the behavior and mindset of threat actors and has even been used as a predictive power to alert against future attacks. In this project, you experiment with sentiment analysis to learn of its capabilities.

**Reflection Assignment:** In your own words, analyze and reflect on the questions and write your thoughts. One or two words is not sufficient.

1. Open your web browser and enter the URL  
   <https://www.medallia.com/experience-101/glossary/sentiment>
2. This webpage helps show how sentiment analysis fits into the context of artificial intelligence.
3. Click **Sentiment Analysis** and read through what it is, how it is useful, and it can be performed.
4. <https://text-processing.com/demo/sentiment/>
5. Enter the text **I like sunshine.** and click **Classify Text**. What tag does it provide and what is the confidence level?

Click or tap here to enter text.

1. Enter several random phrases and perform an analysis on each.
2. Insert a screen shot of one of the analysis.

Click or tap here to enter text.

1. Use a search engine to search the Internet for *cybersecurity quotations.* Cut and paste several of these into the text box and analyze them.
2. Insert a screen shot of one of the analysis.

Click or tap here to enter text.

1. Now enter statements from threat actors. Go to Google Images (**https://images.google.com**).
2. Enter the search word **ransomware**.
3. Locate ransomware screens that contain messages from threat actors, and enter these into the Sentiment Analysis text box for analysis.
4. What is the sentiment analysis for these quotations from threat actors?
5. Insert a screen shot of one of the analysis.

Click or tap here to enter text.

1. How could sentiment analysis be useful in identifying a threat actor’s mindset? Do you think it could be used for predicting attacks?

Click or tap here to enter text.

1. Close all windows.

## Assignment Submission

Attach this completed document to the assignment in Blackboard.