

Title: Exploring Password Strength

Description: In this practical, you will experiment with different types of passwords to see what makes them strong or weak.

Purpose: This practical will help you understand how to make a strong password by experimenting with different password combinations. You'll see how changes in your password, like adding symbols or numbers, make it more secure.

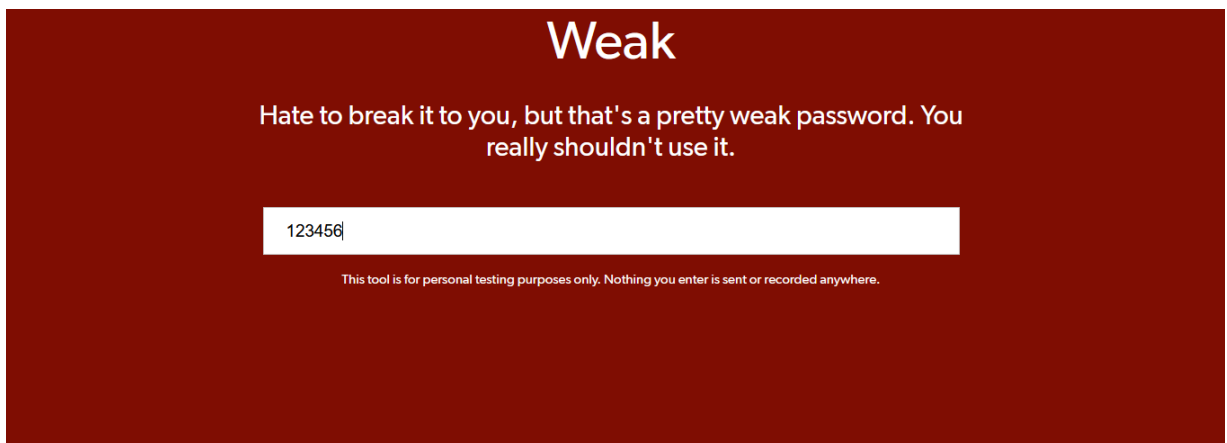
Steps:

1. Go to LastPass Password Strength Tool:

- Turn on your computer, connect to the internet, and open a web browser. Go to <https://lastpass.com/howsecure.php>
- This tool will help you check if a password is weak, moderate, or strong.

2. Enter a Simple Password:

- In the password field, start by typing a very simple password, like “123456” or “password.”
- It should result as “Weak” Password and the background will turn Red
- Also the tips section will suggest how to make this password stronger.



Tips to make it stronger

Length

That's a bit too short for a password. Make it stronger by adding more characters. Try stringing together several words or phrases to create a passphrase.

Add Special Characters

Your password not contains any letter that considered a special character. Make it stronger by adding special characters, too.

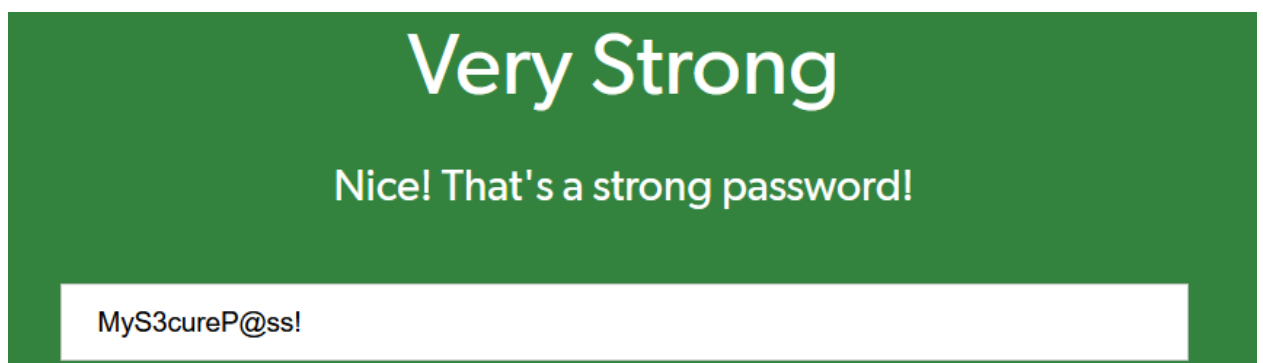
3. Experiment with Different Passwords:

- Next, try entering a new password with a small improvement, like “**Password12345678,**” and observe the rating again. Notice any changes in color and strength.
- If the result is not **Strong** (Green), keep experimenting.
- Note:
 - **Weak** password will be shown in **red**
 - **Moderate** password will be shown in **yellow**
 - **Strong** password will be shown in **green**



4. Continue Testing Until Strong:

- Keep entering different combinations of characters.
- Add uppercase letters, lowercase letters, numbers, and special characters like “@” or “!” like “**Hello@1234**” or “**MyS3cureP@ss!**”
- Keep testing until you reach a **Strong** (Green) rating.



6 – Rule Principle

A simple set of **six rules** for you to set up safe passwords is:

- ✓ To include **numbers, letters** and **symbols** in your password.
- ✓ To use at least one **capital letter**.
- ✓ To make it something you will remember but others won't think of.
- ✓ To make sure it has **eight characters** or more.
- ✓ To never use obvious names or dates like your nick name or birthday.
- ✓ To never write down or share your password. (You can share it with your parents or guardian)