Regex Prompts

* **Email Address Validation**
  + Prompt: Write a regex to validate an email address.
  + Regex: ^\w+([\.-]?\w+)\*@\w+([\.-]?\w+)\*(\.\w{2,3})+$
* **Phone Number Validation (US)**
  + Prompt: Create a regex to validate a US phone number format.
  + Regex: ^\(?([0-9]{3})\)?[-. ]?([0-9]{3})[-. ]?([0-9]{4})$
* **Date Format Validation (YYYY-MM-DD)**
  + Prompt: Write a regex to validate dates in the YYYY-MM-DD format.
  + Regex: ^\d{4}-(0[1-9]|1[0-2])-(0[1-9]|[12][0-9]|3[01])$
* **Password Strength Check**
  + Prompt: Generate a regex to ensure a password meets the following criteria: At least 8 characters, includes uppercase and lowercase letters, has a number, and contains a special character.
  + Regex: ^(?=.\*[a-z])(?=.\*[A-Z])(?=.\*\d)(?=.\*[@$!%\*?&])[A-Za-z\d@$!%\*?&]{8,}$
* **IPv4 Address Validation**
  + Prompt: Create a regex to validate an IPv4 address.
  + Regex: ^((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)$
* **URL Validation**
  + Prompt: Write a regex to validate a URL, including http:// or https://.
  + Regex: ^(http:\/\/www\.|https:\/\/www\.|http:\/\/|https:\/\/)?[a-z0-9]+([\-\.]{1}[a-z0-9]+)\*\.[a-z]{2,5}(:[0-9]{1,5})?(\/.\*)?$
* **Hex Color Code Validation**
  + Prompt: Create a regex to validate a hex color code.
  + Regex: ^#([A-Fa-f0-9]{6}|[A-Fa-f0-9]{3})$
* **Username Validation**
  + Prompt: Generate a regex for validating a username that begins with a letter and can contain letters, numbers, underscores, and dots. The length should be between 3 to 16 characters.
  + Regex: ^[a-zA-Z]\w{2,15}$
* **Credit Card Number Validation**
  + Prompt: Write a regex to validate a credit card number (assuming Visa, MasterCard, American Express).
  + Regex: ^(?:4[0-9]{12}(?:[0-9]{3})?|5[1-5][0-9]{14}|3[47][0-9]{13})$
* **Social Security Number (SSN) Validation**
  + Prompt: Create a regex to validate a US Social Security Number.
  + Regex: ^\d{3}-\d{2}-\d{4}$