**EDITORS**

* **Vi Editor:**

**Description:**

Vi is a text editor that comes pre-installed on most Unix-like operating systems.

It operates in two modes: command mode and insert mode.

**Modes:**

**Command Mode:**

Used for navigating and manipulating text.

**Insert Mode:**

Used for inserting and editing text.

**Commands:**

i: Enter insert mode.

Esc: Return to command mode.

:wq: Save and quit.

:q!: Quit without saving changes.

* **Vim Editor:**

**Difference from Vi:**

Vim (Vi Improved) is an enhanced version of Vi.

Includes additional features and improvements.

Supports syntax highlighting, plugins, and more.

**Commands:**

Similar to Vi but with added functionalities.

e.g. :syntax on for syntax highlighting.

* **Nano:**

**Description:**

Nano is a simple and user-friendly text editor.

It is often the default editor in some Linux distributions.

**Features:**

Easy-to-use interface.

Common keyboard shortcuts displayed at the bottom.

Doesn't have the modes found in Vi.

**Commands:**

Ctrl + O: Write changes.

Ctrl + X: Exit.

* **Pico:**

**Description:**

Pico is a simple and lightweight text editor.

Commonly used in some Unix systems.

**Features:**

Similar to Nano.

Limited features compared to Vi or Vim.

**Commands:**

Simple commands similar to Nano.

* **Sed Command:**

**Description:**

Sed (Stream Editor) is a powerful text stream editor.

Used for text transformations on an input stream.

**Usage:**

sed 's/old/new/g' filename: Replace all occurrences of 'old' with 'new' in a file.

Supports regular expressions for versatile text manipulation.

**Example:**

sed 's/apples/oranges/g' fruits.txt

Replaces all occurrences of 'apples' with 'oranges' in the file 'fruits.txt'.

These tools serve various purposes in Linux, from text editing with Vi and its derivatives to simpler alternatives like Nano and Pico, and text manipulation with Sed. The choice of tool depends on user preference and the specific requirements of the task at hand.

References:

<https://www.geeksforgeeks.org/sed-command-in-linux-unix-with-examples/>

<https://www.geeksforgeeks.org/nano-vs-vim-editor-whats-the-difference-between-nano-and-vim-editors/>