Introduction to Emacs

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Text Editors

- Use a text editor when we write a program in any language.
- This video shows how to use "Emacs", which is one of the text editors.

Start Emacs

- Running Emacs on the terminal:

  ```
  $ emacs & ⏎
  ```

- Running Emacs by specifying a file name:

  ```
  $ emacs sample.txt & ⏎
  ```

  If the specified file does not exit, it is newly created.

Key operations in Emacs

- Every operation (read/write a file, copy & paste, and searching etc.) in Emacs is done on the keyboard.

Notations for key operations

Notation	Key operation
C-x	Type $\boxed{X}$ key **with** $\boxed{Ctrl}$ key[1].
M-x	Type $\boxed{X}$ key **after typing** $\boxed{Esc}$ key[2]. or Type $\boxed{X}$ key **with** $\boxed{Alt}$ key[3]

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[1] Hold down the Control key while typing the X key.
[2] Press the Escape key (once) and then type the X key.
[3] Hold down the Alternate key while typing the X key.

Key operations in Emacs

- Example: Save a file.

  `C-x C-s` : Type $\boxed{X}$ with $\boxed{\text{Ctrl}}$ key, then type $\boxed{S}$ with $\boxed{\text{Ctrl}}$ key.

- Example: Error recovery.

  `C-g` : Type $\boxed{G}$ with $\boxed{\text{Ctrl}}$ key.

Key operations in Emacs

Operation	Key operations	
	Procedure 1	**Procedure 2**
Go forward one character.	`C-f`	☐
Go backwards one character.	`C-b`	☐
Go down one line.	`C-n`	☐
Go up one line.	`C-p`	☐
Go to the beginning of the line.	`C-a`	
Go to the end of the line.	`C-e`	
Scroll to next screen.	`C-v`	Page Down
Scroll to previous screen.	`M-v`	Page Up
Go to the beginning of the file.	`M-<`	
Go to the end of the file.	`M->`	
Delete the next character.	`C-d`	Delete
Delete the previous character.	BS	
Kill the line to the end.	`C-k`	

Save & Exit

- Save your work without exiting:

  ```
  C-x C-s  : save the file.
  ```

- Save a file with a new name:

  ```
  C-x C-w : save with a new name.
  ```

- Exit Emacs:

  ```
  C-x C-c  : exit.
  ```

Another text editors

XEmacs

XEmacs is a customizable open source text editor and is related to Emacs. Its emphasis is on modern graphical user interface.

Start XEmacs: `$ xemacs &` ⏎

gedit

gedit is the GNOME text editor.

Start gedit: `$ gedit &` ⏎

or another text editors are available. You can choose your better one.