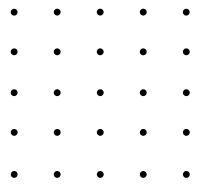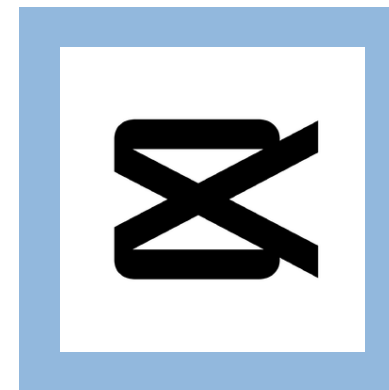# Implement Digital Video Techniques ENT5001

LO1 : Determine the optimal video format, software , and hardware options to produce a video .

Vision and Mission

Paid

CapCut is an all-in-one video editor and video maker application with everything you need to create stunning, high-quality videos and if you want more tools you have to subscribe .

Free

VN is an easy-to-use and free video editing app with no watermark. The intuitive interface makes video editing simple, with no prior knowledge needed.

Major Features of editing software

01

Cutting and trimming clips

- Timeline Editing: Drag-and-drop interface to rearrange clips.
- Razor Tool / Blade Tool: Allows precise cuts at any frame.
- Ripple Edit: Automatically closes gaps after cuts

02
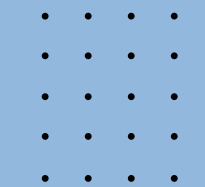
Adding transitions and effect

- Transition Library: Pre-built transitions (e.g., crossfade, wipe, dissolve).
- Drag-and-Drop Effects: Easy application of visual effects to clips.
- Keyframing: Animate transitions/effects over time.

03

Adjusting Audio

- Audio Mixer Panel: Control volume levels, panning, and track balance.
- Keyframe Volume Control: Fade in/out or adjust volume over time.
- Noise Reduction Tools: Clean up background noise and hum.
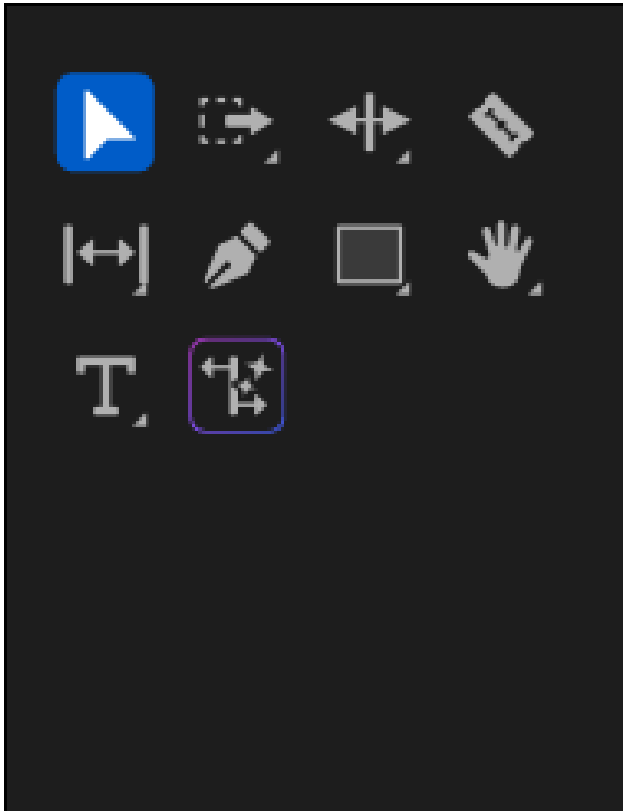
04

Exporting the final product

- Export Presets: Quick settings for YouTube, Vimeo, 4K, etc.
- Custom Format Options: Choose resolution, codec, bitrate, and frame rate.
- Batch Exporting: Render multiple sequences or versions at once.

Adobe Premiere Tools

Selection Tool (V) – Standard arrow used to select clips, transitions, and other objects in the timeline.

Track Select Forward Tool (A) – Selects all clips on a track from a given point forward.

Ripple Edit Tool (B) – Adjusts an edit point and moves other clips in the timeline to compensate.
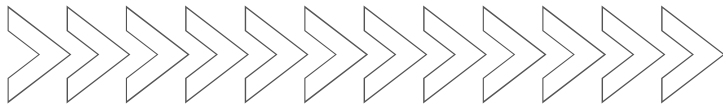
Razor Tool (C) – Cuts clips at the point where you click.

Slip Tool (Y) – Moves a clip's in and out points without changing its duration or position in the timeline.

Pen Tool (P) – Used to create control (anchor) points for keyframes, such as audio levels or effects.
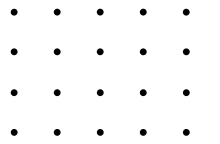
Rectangle Tool (No default key) – Used to create rectangular graphics shapes (mainly for titles or masks).

Hand Tool (H) – Moves the viewing area of the timeline or program monitor without affecting the content.

Type Tool (T) – Allows you to type text directly onto the program monitor or graphics layer.

Horizontal/Vertical Text Tool or Graphics Selection Tool (Shift+T) – This one is context-sensitive and could switch between vertical type, text box selection, or other graphic-related tools.
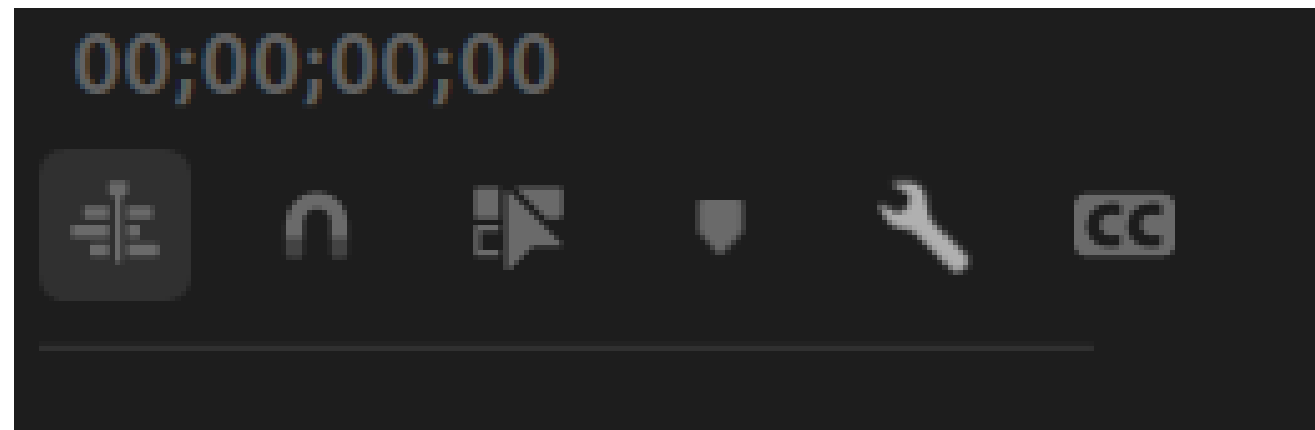
Adobe Premiere Tools

Linked Selection (Toggle)
- Toggles whether audio and video clips that were imported together stay linked when selecting or editing.

Snap (S) When enabled, clips will "snap" to the playhead or to other clips when moved—makes precise editing easier.

- Insert and Overwrite Sequences as Nests or Individual Clips: Controls whether adding a sequence to the timeline nests it as a single clip or breaks it into individual elements.

Toggle Trim Type (Ripple or Rolling)
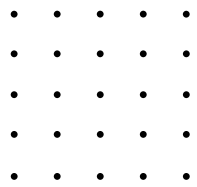- Lets you switch trimming behavior during edits.

Wrench (Timeline Display Settings)
- Opens a menu of timeline settings like waveform visibility, audio keyframes, and more.

Closed Captions Display
  - Toggles the visibility of closed captions in the Program Monitor.
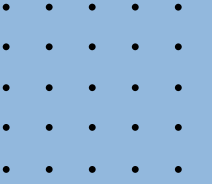
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Software Requirements

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Important Terms

Data Input (footage) :
Supported File Types (Video Codecs & Containers)
Most editing software accepts a wide range of video formats.
Example:
MP4 - H.264, H.265
MOV - ProRes, H.264

Processing (Editing) :
Drag-and-Drop Interface: Arrange video, audio, and image assets.
Tracks: Layer multiple video and audio clips (V1, V2, A1, A2, etc.).
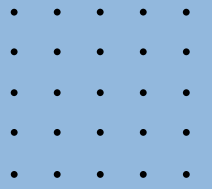
Output (Export) :
Export Settings / Presets
- Platform-Specific Presets:
  - YouTube, Vimeo, TikTok, Facebook, Instagram, etc.
  - Automatically adjusts resolution, bitrate, and codec.

Video Formats

MP4

Best for : Web, mobile, YouTube, general use

Widely supported, good compression, high quality. Uses H.264 or H.265.

AVI

Best for : Windows applications, older editing software

Uncompressed or lightly compressed, large file size, less efficient.

MKV

Best for : High-quality video storage, Blu-ray rips

Supports multiple audio/subtitle tracks, open-source, flexible container.

WMV

Best for :Windows-based playback, email

Compressed format, small size, lower quality.