



Video Recording

Video Editing and its Impact

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What is editing

- •Editing is the process of selecting, arranging, and connecting shots into a meaningful overall flow.
- •Editing transforms the recorded material into a narrative or informative structure.
- •Editing is a combination of technical process and dramaturgical decision-making.
- •Editing organizes space and time in accordance with the intention of the author.
- •Editing directs the viewer's attention and builds the rhythm of perception.
- •Editing is the crucial stage in which a film or show takes its final shape.









Editing is called 'The Language of Cinema' "

- •Editing combines frames just as sentences combine words in a language.
- •The order of the frames generates a meaning that is not present in the individual frames.
- •The montage uses visual and auditory "grammatical" cues as transitions and rhythm.
- •Editing shapes the subjective experience of space and time of the viewer.
- •Editing allows for ellipses, information condensation, and associative thinking.
- •Editing affects emotions just as strongly as the content of the frame.







A brief evolution: from tape to digital

- Early authors physically cut and glued film tape in editing tables.
- The Soviet school developed montage theories as a means of generating an idea.
- Classical Hollywood standardized continuity and imperceptible cuts.
- Linear video editing introduced tape and device control in television.
- Digital non-linear editing has yielded unlimited versions and rapid experimentation.
- Today's systems bring together cloud collaboration, proxy work, and remote teams







Technical and artistic aspects of editing

- •Technical aspects include format, codecs, synchronization, and media organization.
- •Artistic aspects include rhythm, transitions, continuity, and dramaturgical logic.
- •The editor must understand the narrative arc and the psychology of the viewer.
- •The editor works with the director, cinematographer and sound designer.
- •The quality of image viewing and sound monitoring influence editing decisions.
- •The relationship between technical quality and dramaturgy is crucial for a professional result.







Basic concepts and workflow

- •Frame is the basic unit of recorded material.
- •A scene is a whole plot in a unique time and space.
- •A sequence is a series of scenes that belong to the same narrative objective.
- •Offline editing is used for creative decisions with raw/raw files.
- •The online finisher solves color correction, sound and delivery of the master.
- •Archiving and versioning are mandatory steps of a professional workflow.







Linear Editing

- •Editing in which the frames are connected consistently, without the possibility of subsequently changing the previous steps.
- •Typical for analog video systems (U-Matic, Betacam, VHS) the editor has to go in order from start to finish.
- •Suitable for fast-paced TV news, chronicles and simple reports.
- •Disadvantage: each change requires a rewrite of the sequence.







NLE - Non-Linear Editing

- Digital editing that allows free access to any frame at any time.
- •It allows for infinite versioning, undo/redo functions, and parallel operation.
- •It works in software such as: Adobe Premiere Pro, DaVinci Resolve, Avid, Final Cut Pro.
- •standard in modern television and film production.
- •Allows integration of image, sound, effects, subtitles and color correction.



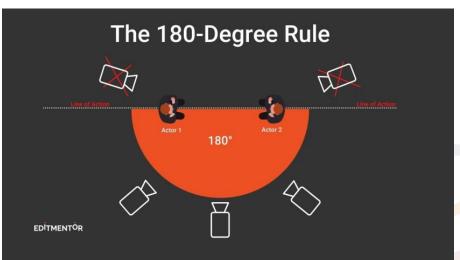






Continuous (imperceptible) editing

- •The goal of continuous editing is to preserve the spatial and temporal logic of the scene.
- •Editing transitions are imperceptible viewers do not think about cutting.
- •The 180° rule, eyeline match and match on action are respected.
- •The classic Hollywood school has developed the principles of continuity for "invisible editing".
- •It is most commonly used in films, TV shows and TV shows.
- •Creates a sense of natural flow and realism.







Discontinuous (expressive) editing

- •Deliberately violates the rules of continuity in order to evoke emotion, shock, or symbolism.
- •It uses jump cut, flash cut, contrasting transitions, and unexpected joints.
- •The goal is to draw the viewer's attention to the idea, not the narrative.
- •Typical of the Soviet assembly school (Eisenstein, Vertov) and the French New Wave.
- •In modern media, it is used for trailers, videos and social networks.
- •Discontinuity becomes part of the style and rhythm.







Rhythmic and metric editing

- •Rhythmic editing is based on movement and music, while metric montage follows exact time intervals.
- •The length of the frame is determined by the pace of the scene, not the length of the dialogue.
- •It is used in music videos, action movies and commercials.
- •By changing the rhythm of editing, the emotional tone also changes fast cuts = tension.
- •In music editing, cuts follow a rhythmic and metric editing beat, beat, or melodic accent.
- •A modern example: "Baby Driver", where every scene breathes to the rhythm of the music.







Associative and tonal editing

- Associative editing brings together images that together create a new meaning.
- Eisenstein's principle: "1 + 1 = 3" the combination of two frames creates a third meaning in the viewer's consciousness.
- Kuleshov's experiment: the same facial expressions, different shots → different emotions.
- Tonal editing connects frames according to color, light, sound, or rhythm of tone.
- It is used in art films, documentaries and poetic sequences.
- It combines emotion, association and visual harmony

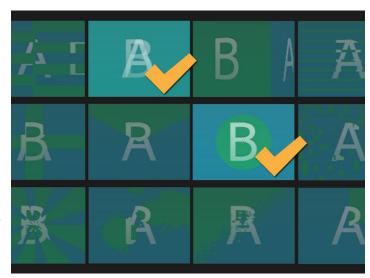






Introduction to Editing Transitions

- •A montage transition is a way of merging two frames into a whole.
- •The transition affects the rhythm, meaning, and emotion of the scene.
- •Basic division:
- Cut abrupt transition without visual effect
- Dissolve gradual transition from one frame to another
- Aperture (fade in/out) the frame disappears or appears from black
- Wipe the frame "deletes" the previous one in a certain direction
- Match cut / J-cut / L-cut transitions connected by content or audio
- •The choice of transition depends on the genre, rhythm, emotion and editing style.









Cut - Basic Transition

- •The most common and important type of mounting crossing. Often on TV news.
- •It is created by instantly changing one frame to another without any visual effect.
- •It maintains the continuity and natural rhythm of the scene.
- •The editor decides when the cut happens timing is key.
- •Types of cuts:
 - •Straight cut A standard transition between two frames.
 - •Invisible cut masked by movement, imperceptible to the viewer.
 - •Smash cut Sudden contrast (e.g., noise → silence).
 - •Jump cut skip in time or on the move; It's creating a discontinuity.





Invisible Cut

- •It is used to maintain continuity without visible interruption.
- •The cut is hidden by means of camera movement, darkness or the passage of an object in front of the lens.
- •To the viewer, it looks as if the scene was filmed in one take.
- •It is used in films with long shots (e.g. "Birdman", "1917").
- •It provides fluidity, but requires precise preparation and matching of shots.









Smash cut and Jump cut

- •Smash cut: A cut between two drastically different situations (e.g. noise → silence).
- The effect of shock, contrast or comic surprise.
- •Jump cut: A jump within the same action, "a seek in time" ".
 - •It breaks the continuity, but increases the rhythm and dynamics.
- •Both techniques emphasize rhythmic and emotional dissonance.











Dissolve

- •The gradual disappearance of one frame while the other appears.
- •It symbolizes the passage of time, a change of place or state of consciousness.
- •It can have a narrative or emotional function (e.g., memory, dream).
- •In modern editing, it is used sparingly formerly the standard in classic film.
- •Digital version: "Cross dissolve" in software.



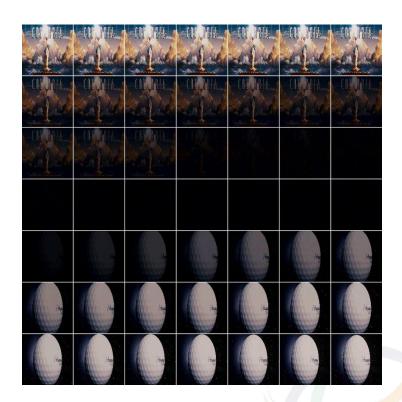






Fade in / Fade out

- •Fade in: the image slowly appears from black (start).
- •Fade out: the image slowly disappears into black (end).
- •It marks the beginning or end of a sequence, chapter, or story.
- •Psychological effect: calming, completion, contemplation.
- •Sometimes used in transitions between day and night.



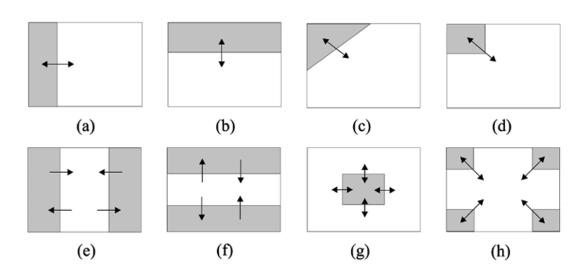




<u>Wipe</u>

- •The new frame "erases" the previous one horizontally, vertically or diagonally.
- •It was popular in old movies and TV series (e.g. Star Wars).
- •Today, it is used more in stylized videos and announcements.
- •It can symbolize a change of time, place, or theme.
- •Digital versions are available in most software as "transition effects"".









Match cut and Graphic match

- •Match cut: A combination of two frames that are visually or conceptually identical.
 - •Example: shot of the sun → shot of the bulb.
- •Graphic match: It uses similar shapes, colors, or movements to connect scenes..
 - •A visual metaphor that enhances the meaning.
- •A famous example: "2001: A Space Odyssey" a bone → a spaceship.
- •It connects the past and the future, reality and the idea.





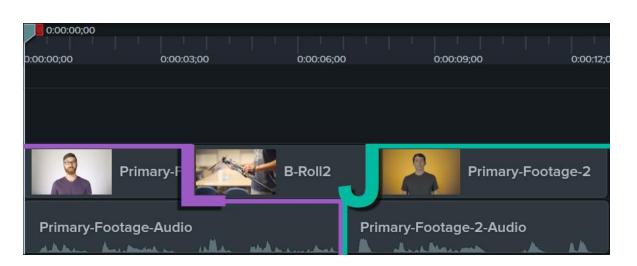


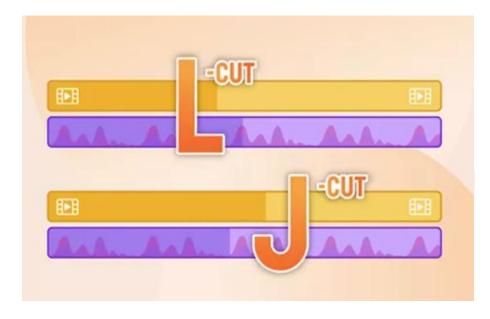




J-cut and L-cut

- •J-cut: The sound of the next scene begins before the image appears..
 - •Allows for a "softer" transition and anticipation of events.
- •L-cut: The sound of the previous scene lasts while the new picture has already begun.
 - Creates continuity and coherence of scenes through tone.
- They are used in dialogues, documentaries, and rhythmic transitions.
- •A key tool for emotionally connecting scenes.









Rhythm and tempo of editing

- •The rhythm and tempo determine the emotional tone and perception of the story.
- •Rhythm refers to the dynamics of changing frames, while tempo describes the overall flow of a scene.
- •The editor uses the length and arrangement of shots to control the viewer's attention.
- •A good rhythm makes a film "alive" a bad rhythm seems monotonous or chaotic.
- •Rhythm is shaped through movement, music, cut, sound, and duration.







The connection between rhythm and emotion

- •Quick cuts cause tension, excitement, action.
- •Slow cuts create peace, introspection, emotional depth.
- •By changing the rhythm, the editor "breathes" along with the emotion of the scene.
- •Rhythm can accompany or counter music and acting.
- •In emotional scenes longer shots; in dynamic shorter
- •A change in rhythm affects the meaning of the:
 - Acceleration, rising tension
 - •Slowing down, creates a feeling of seriousness or sadness
 - •Abrupt cut, surprise, comedy, shock.







Length of the frame in practice

•The average duration of the frame depends on the genre and format:

Action movie: 1-2 seconds

•Drama/dialogue: 4–6 seconds

•TV news: 3-5 seconds

Social media: 0.5–2 seconds

•Each one has to last exactly as long as it conveys the information.

•Rule: "Cut as late as possible, but not too late". It should happen exactly when the viewer's mind moves from one motive to another.







Rhythmic and metric editing

- •Rhythmic editing: cuts follow the movement and energy of the image or music.
- •Metric editing: cuts occur at a specific time interval.
- •Rhythm editing is used in music videos, fight scenes, and trailers.
- •By changing the rhythm of the scene, it becomes more dramatic or calm.







Rhythm and music

- •Editing can be synchronized with the rhythm of the music ("cut to the beat").
- •A change of pace creates contrast and enhances the experience.
- •In music videos, the tempo of the music dictates the tempo of the cuts.
- •The combination of fast editing and slow melodies creates an ironic effect.







Rhythm control by editing

- •The editor uses rhythm as a tool to guide attention.
- •Too fast rhythm tires the viewer; It's too slow to sleep.
- •Ideally: alternating between fast and slow sequences.
- •In the news: rhythm holds attention; In the drama: Rhythm builds tension.







Dynamic editing in the digital age

- •The modern viewer has a shorter attention span the rhythm accelerates.
- •On social networks, the average duration of the frame < 2 seconds.
- •Al tools analyze the emotion of a scene and automatically adjust the rhythm.
- •Dynamic editing combines classic storytelling and automated effects.







Order as a source of meaning

- •Editing not only brings the shots together, but creates a new meaning in their order.
- •By changing the order of the frames, the same scene can have a completely different meaning.
- •The dramaturgy of editing is based on the psychology of perception: the brain connects images into a whole.
- •Each frame is a sentence, and the order of the frames is the grammar of visual language.
- •The viewer does not see the shot in isolation, but in the context of what precedes and follows.







The Kulešov Effect

- •Lev Kuleshov proved that meaning depends on order and context.
- •Experiment: the same shot of the actor's face shown with different images –
- soup hunger
- Suitcase sadness
- child tenderness
- •Conclusion: Viewers project an emotion based on neighboring frames.
- •This is the basis of the psychological perception of montage.







How the order changes the meaning

- •Example 1: face, explosion, emotion = fear.
- •Example 2: explosion, cheek, emotion = shock, confusion.
- •In both cases, the same shots, but a different experience.
- •The order defines how viewers interpret cause and effect.
- •In the movie "Psycho" (Hitchcock) rhythm and order create tension before anything happens.

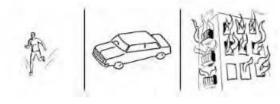
Auto – čovek – zgrada u plamenu;
 Čovek se dovozi autom i trči ka zgradi u plamenu.



Zgrada u plamenu– čovek – auto;
 Bežeći od vatre, čovek trči prema autu da se spase.



3. Čovek – auto – zgrada u plamenu; Čovek koji je izazvao požar, beži autom od zgrade.







Ejzenštajnov principle "1 + 1 = 3"

- •Sergei Ejzenštajn laid the foundation for modern assembly theory.
- •The combination of the two frames does not create a sum, but a new third meaning.
- •For example: frame of man + frame of child, meaning "fatherhood".
- •Editing is a tool for emotional and ideological construction.
- •On its own, none of the frames expresses complete emotion.
- •But by combining the four, the viewer constructs an emotional arc: tension, fear, relief, love.
- •Thus, editing does not only depict events, but creates a psychological experience.

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Rules for switching between plans

- •The installation according to the plans must be logical and visually natural.
- •Avoid sudden jumps between two very similar planes (e.g. large large).
- •It is recommended to go by the difference in size:
- •Total medium plan close-up (gradual approximation).
- Large medium total (gradual distance).
- •And they are used only as a means of expression.
- •Rule: the difference in the size of the plans should be at least 30% for the cut to be imperceptible.
- •The cut must change the camera angle by at least 30° compared to the previous frame.
- Minor changes cause a visual jolt ("flicker cut").
- •This rule ensures the fluidity of the transition and the continuity of movement.
- •In multi-camera systems (e.g. TV studios), this rule applies between cameras A, B and C.







Rules for switching between plans

•Transitions between plans should be motivated by movement, emotion, or change of information — not random.

Rule 1 – Logical sequence:

Far → General → Medium → American → Medium → Large → Very large → Detail

- We take the viewer from orientation in space to emotional focus.

•Rule 2 – Resizing the plan:

- Each new plan must differ by at least 30% in frame size for the cut to be justified.

•Rule 3 - Avoid "jumping"":

Do not switch from Medium directly to Medium Large without a visual reason – it looks like a technical error.

•Rule 4 – Dynamic transition:

- The movement of the camera (pan, tilt, zoom) or the movement of the subject can "merge" the two planes naturally.

•Rule 5 – Emotional progression:

- Distant and general plans create context and distance.
- Medium and American plans introduce dialogue and action.
- Close-ups and very close-ups convey emotion and psychological tension.
- Detail gives symbolism, meaning, focus.

•Rule 6 – Return to the Bigger Plan:

- After multiple close-ups, insert a total or semi-total to restore the viewer's spatial orientation.

•Rule 7 – Combination of plans:

- For the dynamics of the scene, he uses changes of planes in the rhythm: total - medium - large - detail - back to total.



Questions

During the assembly process, it is necessary to answer the following questions:

- 1. Which of those available to you do you want to use?
- 2. What is the order of personnel?
- 3. How long does the frame last and what impact does it have on the audience?
- 4. At what point should I move from one frame to another?
- 5. In what way will the staff continue to the next one (transition, cut)?
- 6. If it is a transition, how fast will it take place?
- 7. Is there a good continuity in the image and sound that supports continuity in the action (action)?
- 8. Are special effects needed in the editing?
- 9. Will you use color correction?





Conclusion

- •Modern audiences have a shorter attention span editing is speeding up and simplified.
- Vertical video (9:16) calls for centralized composition and more close-ups.
- •In news broadcasts, cutaway is used to maintain rhythm and visual dynamics.
- •On social media, the montage has to "grab attention" in the first 3 seconds.
- •Al tools automatically analyze emotional moments and adjust the length of the frame.
- •A modern editor is an artist and a technician at the same time.
- •Technology (AI, NLE, neural analysis) expands possibilities, but the basic principles remain the same.
- •Every montage is an interpretation of reality, not just its depiction.
- •The future: automated editing AI, but with a human sense of rhythm and meaning.





Questions & Answers

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