Video Editing

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Technologie pro web a multimedia

1. The goals of video editor
2. Typical working environment
3. The creation process
4. Editing techniques
5. Examples from industry
6. Video editing tools
The Goal of Video Editing

What the editor’s job is?

1. with a plan (screenplay), multimedia materials (video sequences on the input,
2. using set of graphical techniques and tools,
3. to change properties of environment on selected sequences,
4. to remove undesired objects,
5. to add new objects,
6. to add titles,
7. and to produce (usually one) final sequence
Basic Terms

Linear video editing
Basic Terms

Non-linear video editing
Next Basic Terms

- **alpha channel** - the separate color channel specifying areas and degree of transparency

- **clip** - a set of images defining a movie

- **track** - a slot which can contain one or more clips

- **sequence** - a set of tracks which make together a desired program

- **project** - a set of sequences

- **trimming** - alignment of start and end of a clip to a specified marks in a track

- **keying** - specifying transparent areas by a color

- **masking** - specifying transparent areas by an image-mask
The Typical Workflow

How to Create a Video Movie

- video and materials acquisition
  - slow camcoder motion
  - long clips
  - rather more materials then necessary
- capturing storing and preprocessing
- project composition
- editing
- export
- distribution
Basic Editing Techniques

- 3-point and 4-point editing
- keying
- masking
- transformations
- transparency effects
- titles
Basic Editing Techniques

3-point and 4-point editing

OVERLAY

INSERT

1

2

3
Basic Editing Techniques

3-point and 4-point editing

OVERLAY

INSERT
Basic Editing Techniques

Transparency Effects

IN

OUT

PROJECTION
Basic Editing Techniques

Transformations

IN

scale & move

PROJECTION

OUT
Keying
Basic Editing Techniques

Masking

PROJECTION

IN

OUT
Basic Editing Techniques

Titles

- **Director Peter Jackson**
- **Director Peter Jackson**
- **Director Peter**

**Static**

**Rolling**

**Crawling**

**Transformed**
Basic Editing Techniques

Titles

Director Peter Jackson

Director Peter Jackson

Director Peter J

STATIC

ROLLING

CRAWLING

TRANSFORMED
Basic Editing Techniques

Audio editing

- 3 types of clip (mono, stereo, 5.1)
- 3 types of track (regular audio, Master, Submix)
- typical effects (volume, pan, fade, filters)
Examples from the Industry

Crowd copy, green screen
Examples from the Industry

Crowd copy, green screen
Examples from the Industry

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Crowd copy, green screen
Examples from the Industry

Crowd copy, green screen
Examples from the Industry

Objects removal and addition
Examples from the Industry

Objects removal and addition
The Often Used Tools

Commercial Products

- Adobe Premiere (www.adobe.com)
- Adobe After Effects (www.adobe.com)
- Pinacle Studio (www.pinnaclesys.com)
- Avid Xpress (www.avid.com)
The Often Used Tools

LINUX World

- Cinelerra (http://heroinewarrior.com/cinelerra.php3)
- MainActor (http://www.mainconcept.com)
- LiVES (http://www.xs4all.nl/~salsaman/lives/index.html)
- AND-SOME-NEXT (www.google.com)