Introduction to Computer Animation

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Lecture 3

Planning an Animation

- □ Put your ideas onto paper first
 - Write down what you intend/want to do
- □ Rough Storyboard
 - Drawings (normally done by hand) of key points in the film
 - Textual descriptions of action in a scene
- □ Three types of storyboard...

Storyboards

- Drawings of key scenes used to guide the animators/sell the project!
- Conceptual
 - Basic visual ideas
 - Camera positions
 - Abbreviated notes
- Production
- Presentation
 - Highly detailed
 - Show key scenes/action
 - More descriptive notes not too technical

Production Storyboard

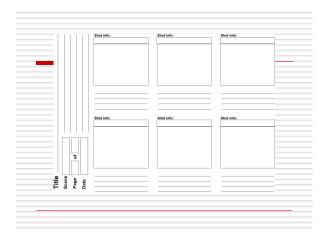
- ☐ Guides production of the animation
- Very detailed
 - Precise information on camera angles, character placement, lighting etc...
- Written information
 - Information on movement within the scene, cameras, characters
 - Important points for rendering
 - Timing and transition information

Production Storyboard (2)

- □ Timing
 - Scene-and-shot numbers
 - Elapsed time
- □ Sound track information
- □ Dialog (Character/voiceover)

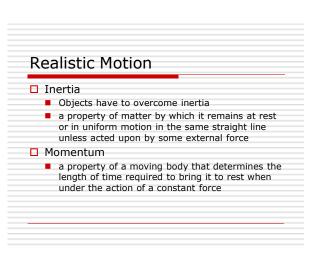
Storyboard example

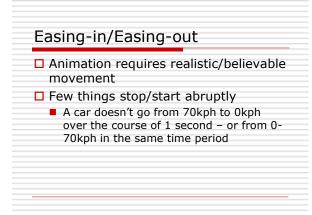


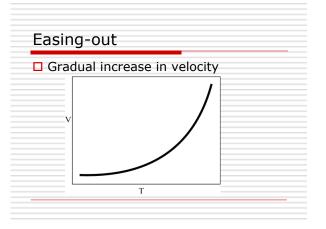


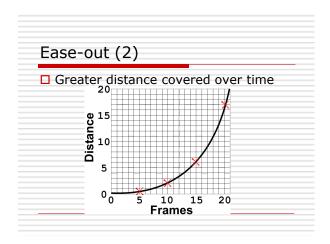
Animation Timing

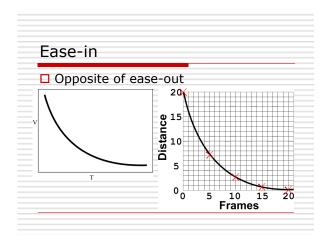
Timing is... □ The accurate portrayal of movement, giving an illusion of life □ Developed through study of movement □ An absolute requirement for good animation □ Obvious when it goes wrong □ Not noticed when it goes right

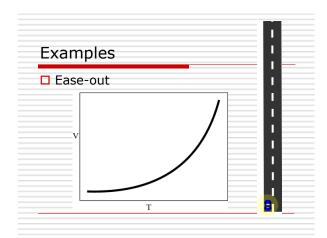


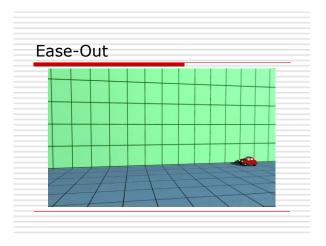


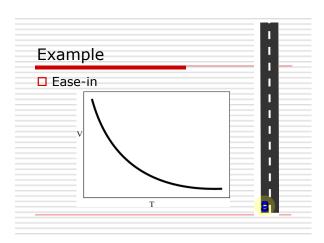


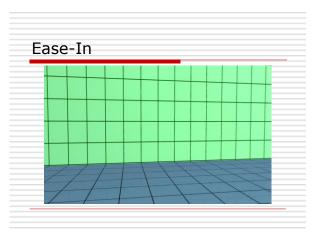










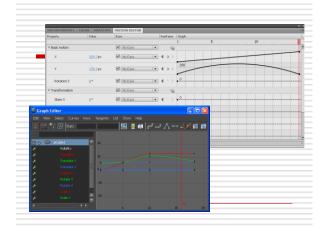


Easing - How do we do it?

- □ Traditional animation
 - Add more frames for the same amount of action
 - □ Works with some things like cars slowing down
 - Not so good for character animation where gestures may change as characters change speed and different parts of a character slow down at different

Easing on the computer

- □ Computer animation
 - More powerful software comes with tools for ease-in and ease-out at the start and end of animated sequences
 - ☐ Flash options with tweening and curve editing
 - □ 3D Applications uses a graph editor with more sophisticated options (more about this in a later



Today's Lab

□ Easing