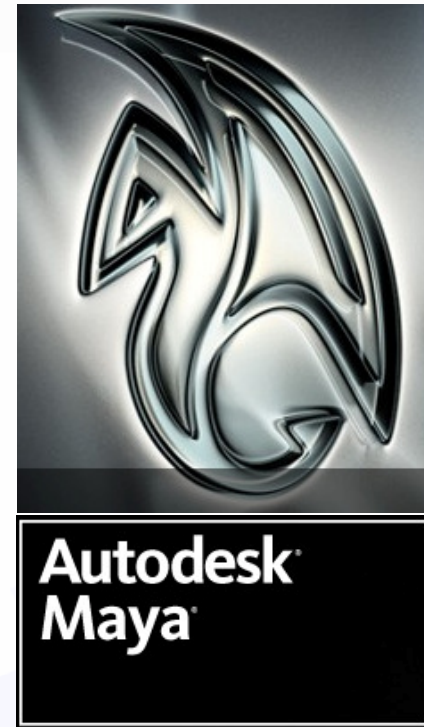


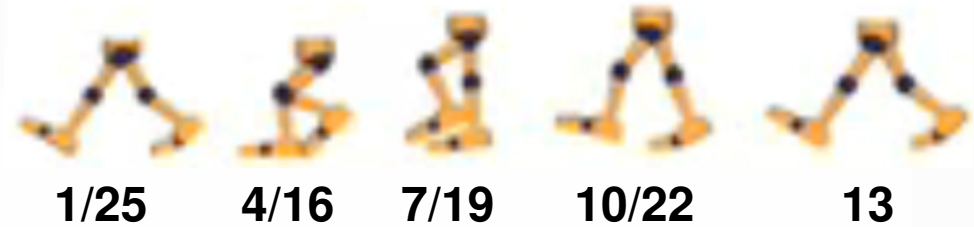
# **Gestaltungspraktikum 3D Modellierung und Animation mit Maya**



## **Animation-HowTo: Keyframes for Walk Cycle**



# Walk Cycle I: Preparation



- Animation Preferences:  
set Playback start/end etc. to "-11" and "25"
- Preparation:  
Frame# -11: Edit→Quick selec. set→Control Icons: Key all  
Frame# -11: LtLeg AND RtLeg: Key All
- We will split the walk cycle into 2 segments:
  - Start Walking (Frame# -11 to 0)
  - Walking (Frame# 1 to 24)
- In the following: use only "Key Selected" for Keying

## Walk Cycle II: Keyframes



- Basics (TranslateZ):  
Frame# 1, 25 LtLeg: TranslateZ: 6  
Frame# 1, 25 RtLeg: TranslateZ: 0  
Frame# 13: LtLeg: TranslateZ: 0 AND RtLeg: TranslateZ: 6
- Keep the feet on the floor (TranslateY):  
Frame# 1, 13, 25: LtLeg and RtLeg: TranslateY "0"
- Get feet up (TranslateY):  
Frame# 4: RtLeg: TranslateY 0.8  
Frame# 7: RtLeg: TranslateY 1.3  
  
Frame# 16: LtLeg: TranslateY 0.8  
Frame# 19: LtLeg: TranslateY 1.3

## Walk Cycle III: Keyframes



- Roll the feet (Roll channel)  
Frame# 1, 25 LtLeg: Roll: -2  
Frame# 7: LtLeg: Roll: 0  
Frame# 13: LtLeg: Roll: 2  
  
Frame# 1, 25: RtLeg: Roll 2  
Frame# 13: RtLeg: Roll: -2  
Frame# 19: RtLeg: Roll: 0
- Finish the “Start walking” sequence  
Frame# -6: LtLeg: TranslateY: 1.3  
Frame# -6: LtLeg: Roll: 2
- Do fine tuning with “Toe Rotation” etc.

# Walk Cycle IV: Keyframes



- Adjust Tangents
  - Open Window → Animation → Graph Editor
  - Start and End Tangents must be the same!
- Create two Clips (Animate → Create Clip → Option Box)
  - Name: StartWalking
  - Leave Keys in Timeline: ON
  - Put Clip in Visor only
  - Start / End: -11 / 0
  - Name: Walking
  - Leave Keys in Timeline: OFF
  - Put Clip in Visor only
  - Start / End: 1 / 24

# Walk Cycle V: Trax Editor



- Trax Editor
  - Window -> Animation Editors -> Trax Editor
  - List: Auto Load Selected Characters: ON
  - Insert Clips:  
select NO control icon and use: right Mouse Button  
in Trax Editor: Library -> Insert Clip OR use Visor