Actors and Interaction



"Stories are about the most fascinating thing in the universe: people." – Chris Crawford

Vogler's Narrative Archetypes

- Hero
- Herald
- Mentor
- Threshold Guardian
- Shadow
- Trickster
- Shapeshifter

Lead Roles in Games















Speaking of Enemies...







Lesser Actors





But Not Just Games

















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Making Them Act



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Visible Action

- The chosen action of an actor manifests itself typically as visible behavior at some point.
- The behavior will be performed by an articulated body, typically human-like in appearance.
- The movements communicate the inner world of the actor.
- Any movement or lack of movement that is not consistent with that inner world, destroys the credability of that actor.





















Body (physics)

- Goal Intant Behavior Motion Body
- Knows its location and configuration
- Knows its limits
- Knows if it's touching something
- Knows what's perceiveable
- Can balance itself



• Example: I bumped into another person!

Motion (Dynamics)

- Knows what joints are needed
- Knows how joints can move
- Can maintain itself
- Can blend with other motions
- Can synchronize with environment



• Example: Eyes track an object

Behavior (Performance)



- Knows what motions are needed
- Knows which motions are most important
- Knows if the behavior succeeded
- Can change if needed

• Example: Point at instruments • Example: Nod the head



Intent (Cognition Level1)

Goal
Intent
Behavior
Motion
Body

- Knows what behaviors help intent
- Knows what behaviors are permissible
- Knows the social context
- Can try something different if behavior fails

• Example: Start conversation • Example: Reach the tower



Goal (Cognition Level 2)



- Knows intent of others
- Knows needs, desires, emotions, personality...
- Can evaluate progress towards goals



- Example: Tell john about the lottery!
- Example: Defeat the enemy





Summary of layered approach

- Intelligence is spread across layers, with higher concentration at the top and lower concentration in the graphics hardware at the bottom.
- Interfaces between layers: As well as being the glue holding a character together, they provide
 – scripting opportunities
 - sharing of standard components (e.g. "engines")
 - different levels of control (e.g. Player vs. NPC)