Scribe Authoring Tool Ben Medler



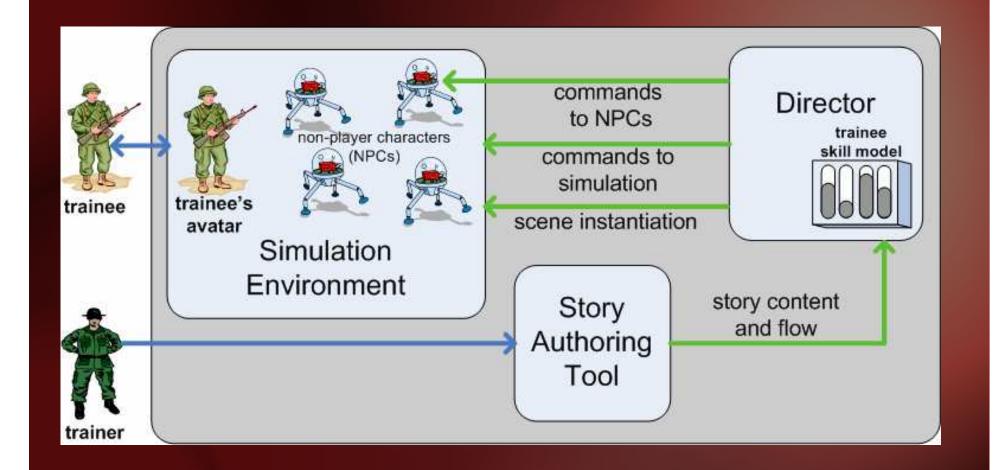
Overview

- Presenters
- ISAT
- Scribe Design
- Scribe Authoring Modes
- Golden Nuggets and Coal
- Questions

Interactive Storytelling Architecture for Training

- Director-based story management
 - Interactive Drama Architecture (IDA)
 - Intelligent Tutoring
- Directs environment and NPCs based on:
 - Story content
 - Player action
 - Hypothesis of player skills
- Selects and instantiates abstract content for dramatic and pedagogical reasons

High-Level ISAT Architecture



Scribe

How do we put authoring content in the hands of non-programmer authors and content experts?

The Scribe Authoring Tool

- Built for authoring interactive narratives
- Provides visual connection to underlying story logic
- Designed for subject matter experts
 (SMEs) to produce story / scenario content

Design Guidelines

1. Generality

- Standardize means of representing multiple environments
- Linking with multiple architectures

2. Usability

Error checking, efficiency, and is easy to use for non-programmers

Design Guidelines

3. Pacing and Timing

 Timing of events that can be controlled by the author

4. Enables Debugging

 Debugging content inside of the production tool

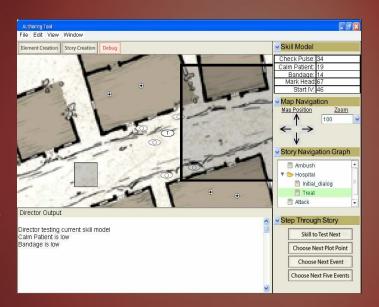
Overview of Scribe

Element Placement

Interaction with the game environment

Story Creation

Creation of story events that occur as the player is inside the game environment

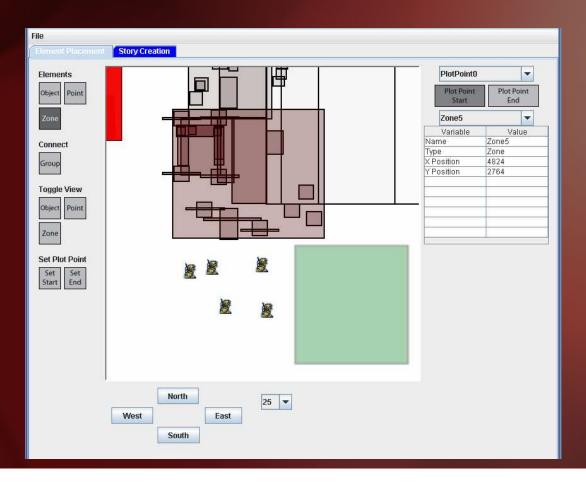


Debugging

Allows the author to review story content inside of Scribe

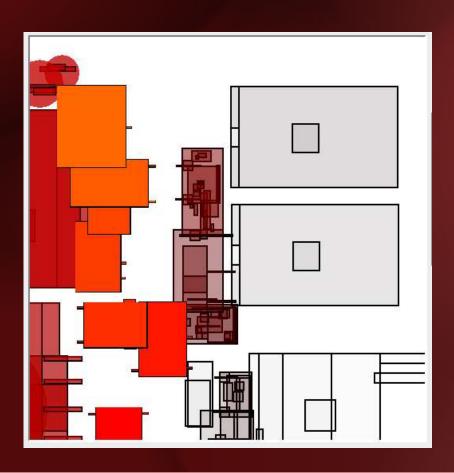
Element Placement

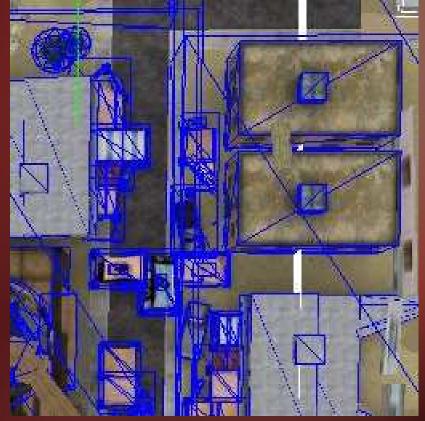
 Author works with game representation creating elements that are used in story



Map Representation

- Map
 - 2D representation inside of Scribe

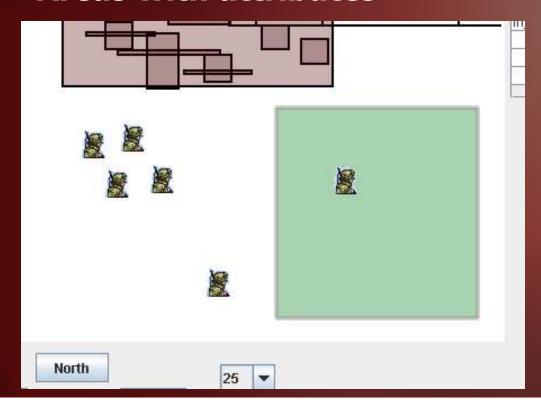




Elements

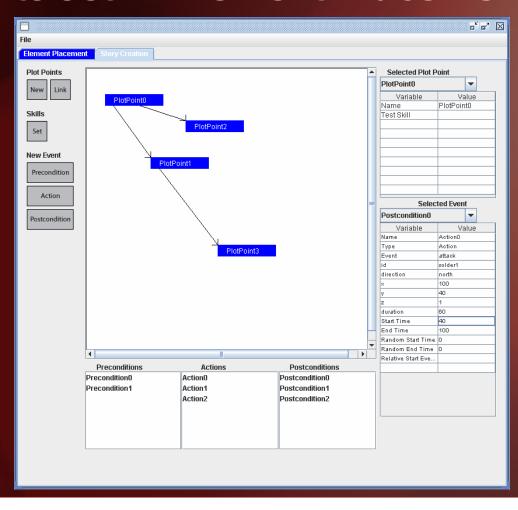
• Elements:

- Objects Items that are represented visually
- Points 3D points
- Zones Areas with attributes



Story Creation

 Author creates story events that utilize elements set in Element Placement Mode



Story items

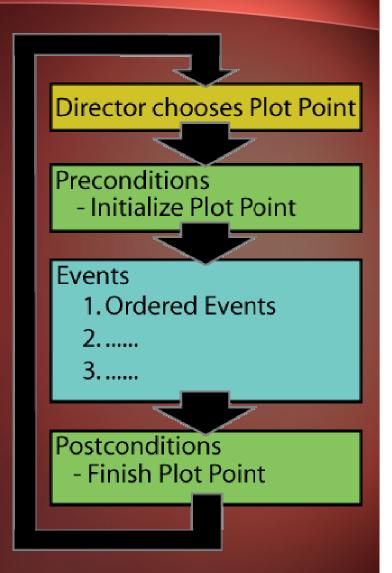
- Story Creation items:
 - Plot Points Main story points (i.e. scenes)
 - Actions Make up plot points, hold actions for a plot point to perform
 - Skills Variables representing trainable skills of the player

Story Representation

Plot Point

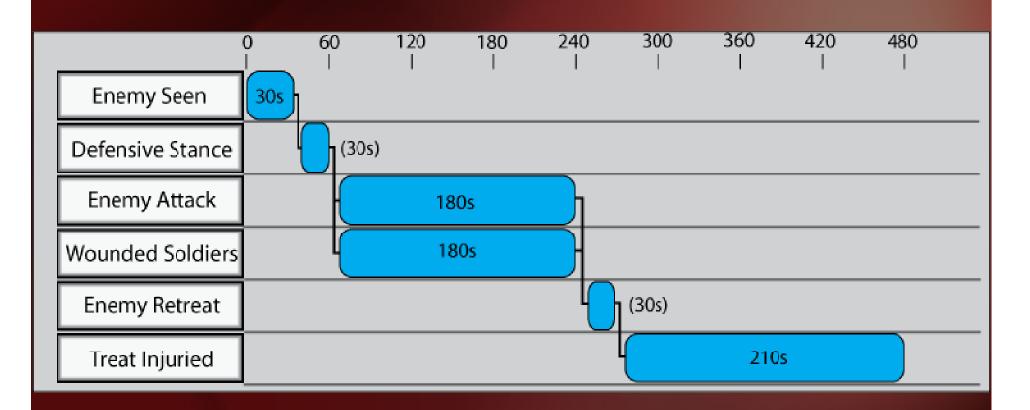
- Initialization
 - Logical sentences
 - Planning preconds or director actions
 - E.g. Location() vs. Spawn()
- Events
 - Actions during the plot point
 - The main story actions that the player experiences
- Finalization
 - Logical sentences
 - Planning postconds or director actions

Partial ordering links



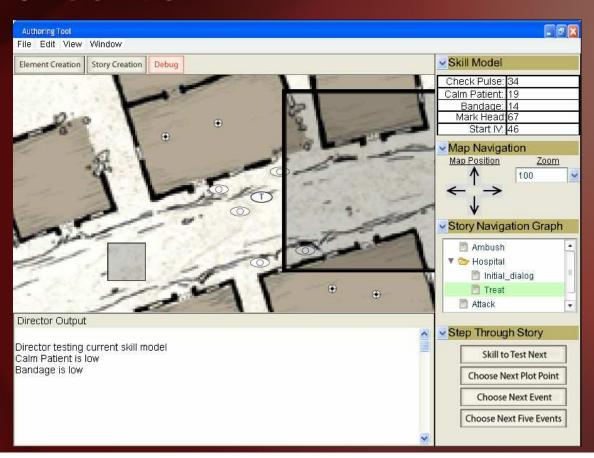
Event Timing

- Plot Point Timing
 - Events given temporal attributes



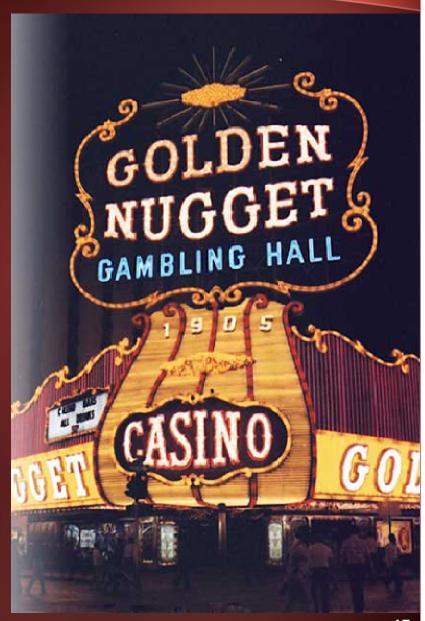
Debugging

 Author communicates with Director Agent while stepping through created story content inside of Scribe



Golden Nuggets

- Major functionality is done
- Started to use Scribe
- XML standards for communication
- We are on schedule



Coal

- Connecting other environments and architectures to Scribe
- Needs usability testing
- Test cases and prototype of debugging ability



Questions?

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