

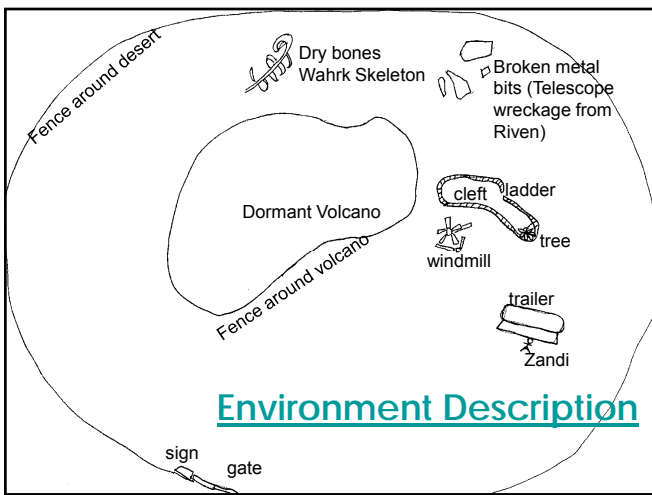


This is an attempt to understand how designers draw a player through an environment, using the computer game URU, Ages Beyond Myst. Clive Fencott's use of perceptual opportunities has been explored. This attempt has considered the player at different positions throughout the Virtual Environment and at these positions, the player is exposed to different competing attractors.

This example however, is actually backward engineering. Instead of designing a virtual environment using perceptual opportunities and then creating it, this example takes an existing interactive game and images what the designer was designing for. A lot can be learnt this way, but much more when people try and document using powerpoint mock-ups as they design, such as what we expect in the Honours Course:

*For 10,000 years, the D'ni™ people thrived underground, building a civilization that, on first examination, appeared almost perfect. Thirty-four kings ruled over the empire, moving it forward, shaping it, and honing it to understand and master the wonderful art of writing Linking Books to unlimited Ages. Then it died. Now, over 250 years later, it's been rediscovered, this time by explorers from the surface who are uncovering its mysteries and hearing its stories. Many feel called to restore D'ni, to find all it has to offer. But the rebuilding and restoration may not be as straightforward as they first seemed, for D'ni may not be as dead as it was thought. Secrets of the past must be uncovered. Secrets of the present must be understood. Secrets of the future must be revealed. The D'ni Restoration Council (DRC), a present-day group of archaeologists, engineers, and other scientists, was formed and funded for the sole purpose of restoring the physical world of D'ni. The DRC's cautious methods are meticulous; some say to an unnecessary extreme.*

*Yeesh, the eccentric daughter of Atrus and Catherine, was born nearly 200 years ago. She has left recorded messages that have something to say about the restoration. She believes that her purpose is to shape the restoration, yet her vision of the goal is quite different than that of the DRC. Yeesh's understanding of D'ni history and mastery of D'ni skills have given her a sense of rescue that is far beyond the surface-only focus demonstrated by the DRC. In fact, her commitment to true restoration is what motivates her to test the resolve of each visitor.*



Here is a map with annotations of the different places in the game.

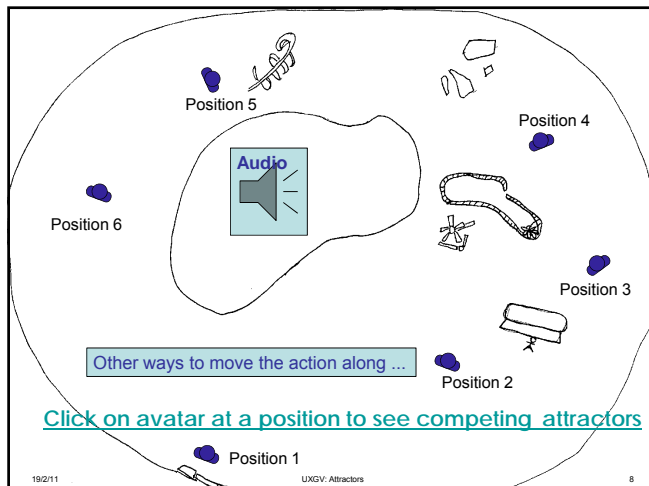
Not drawn to scale obviously! The different objects or areas of interactions are labeled and the boundaries for the environment are set (fence around desert and fence around volcano).

But this map is not the whole story: how do you get a person to move?

### Initial Concept Painting



Josh Staub's (art director for URU) "2D Conceptual Matte painting of the cleft desert area" (Photoshop)



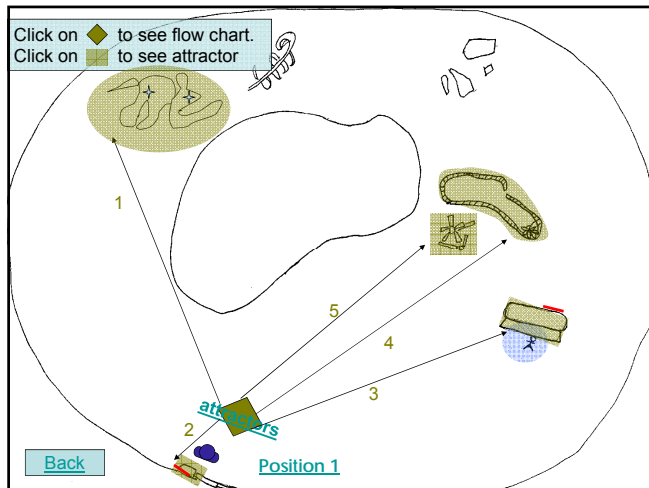
This is the attractor map showing the player at certain possible and likely positions the player might go. Clicking on the blue avatar icon shows the attractors for that particular position. Showing how the attractors change between positions is tricky. I just did an alternate slide for each of them but you then cant really compare positions.



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Here is the player at the starting position.

In all those 5 directions, there are various attractors that would draw the player to the appropriate retainer. The designer weights the attractors with the intention of drawing the user to that one first. Here the user sees the windmill and cleft tree in the distance and then the trailer. Behind the player, there is a cloth on the sign, the player could be attracted by the sign and find the cloth. There is also the animation of the vultures in the distance but the player would have to be very observant to notice those. The player might than follow a particular attractor and move position. Moving position changes attractor weights and descriptions. It is most likely that the player will move in the direction of the 5,4 and 3 attractors. There are many of them pulling him toward that part of the environment. As he gets closer, the player would have to choose which of the 3 he is first going to explore.



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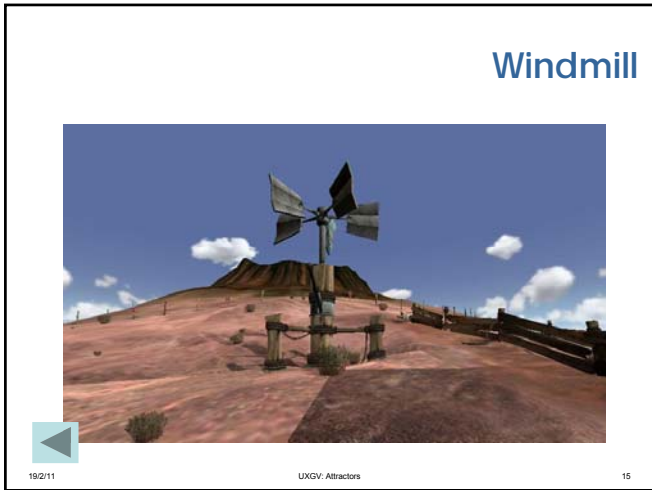
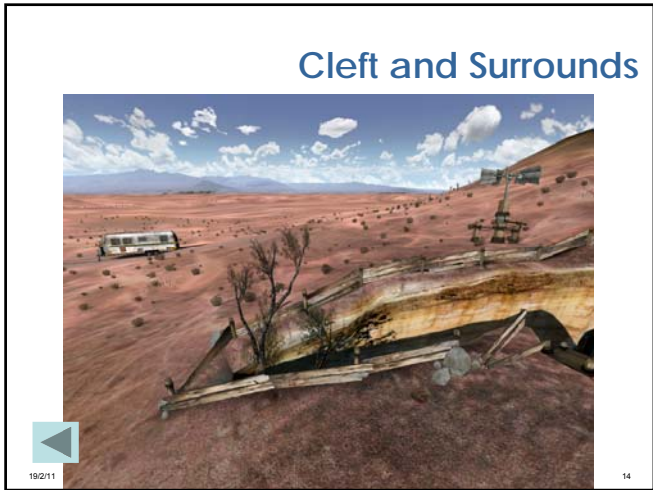
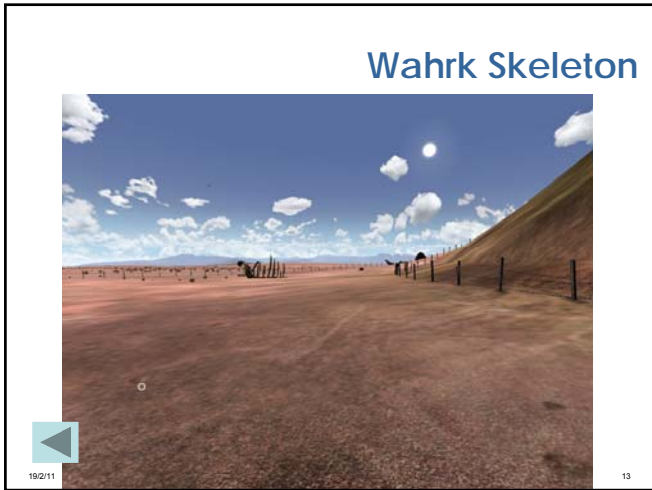
### Gate



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### Zandi — Interactions

To Trigger Dude (Zandi) to talk → walk into his area 🗨️

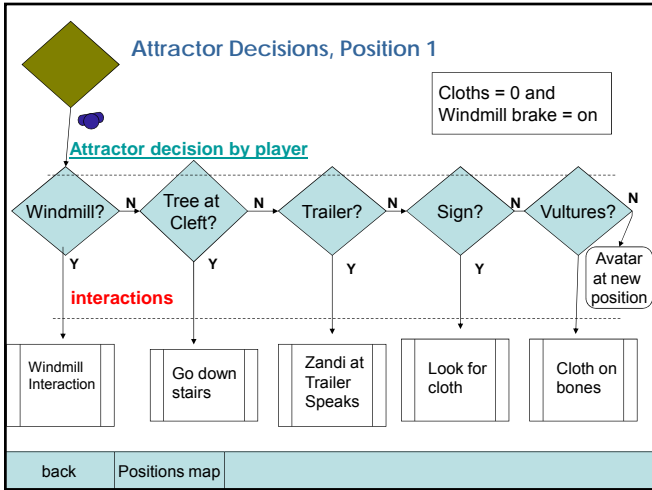
Click is used to interact with objects.

Can click on:

- 👉 Clothes
- 👉 windmill brake
- 👉 windmill lever
- 👉 water bucket lever
- 👉 to pick up letter

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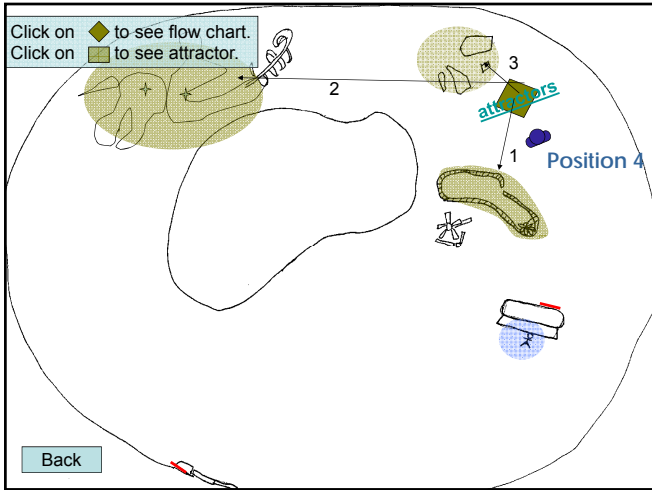
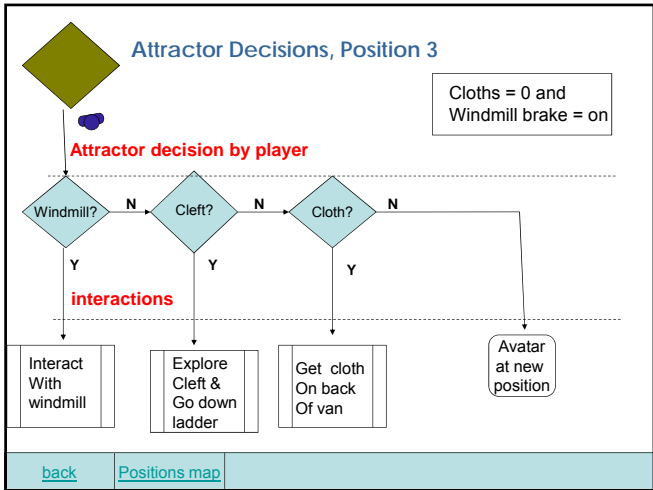
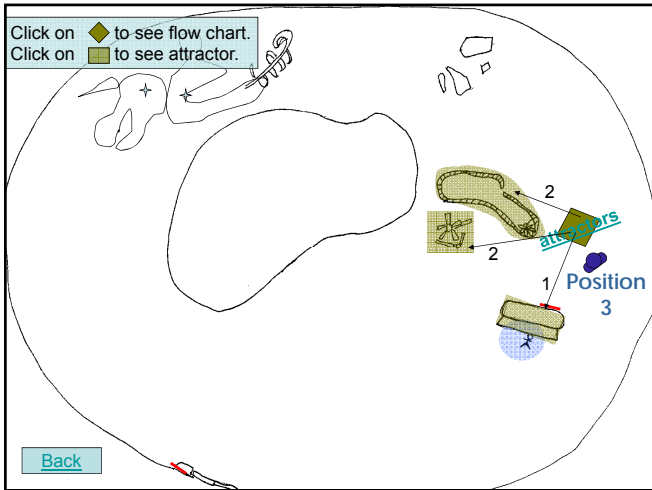
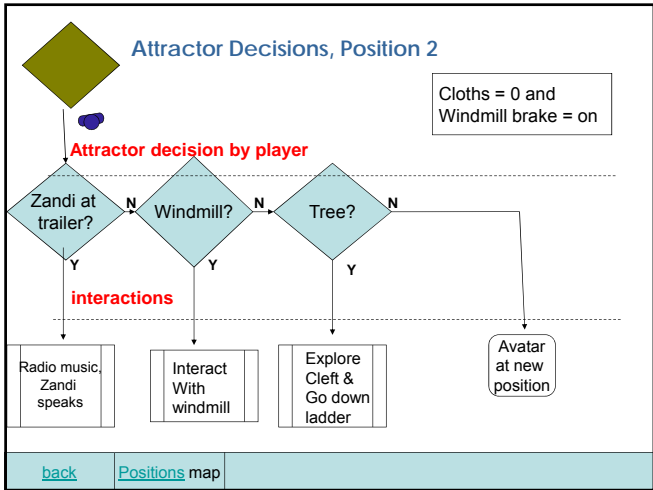
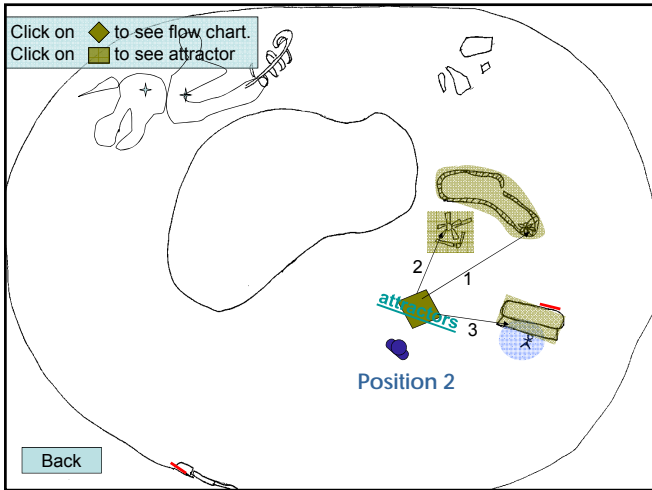


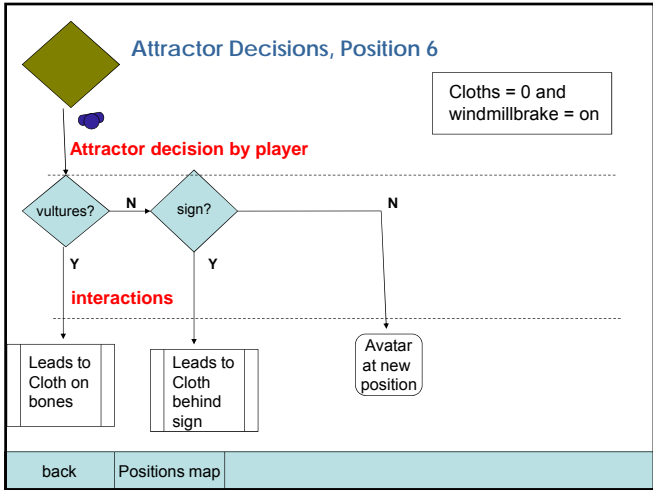
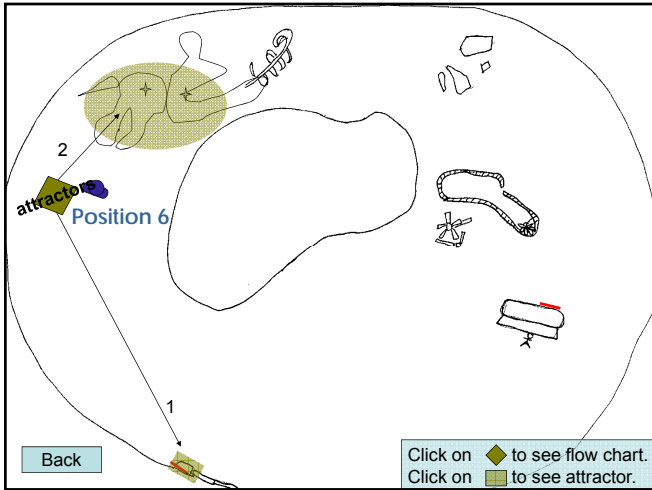
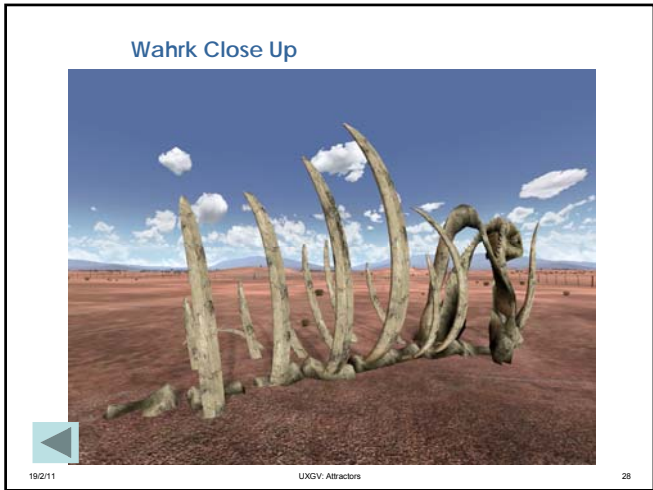
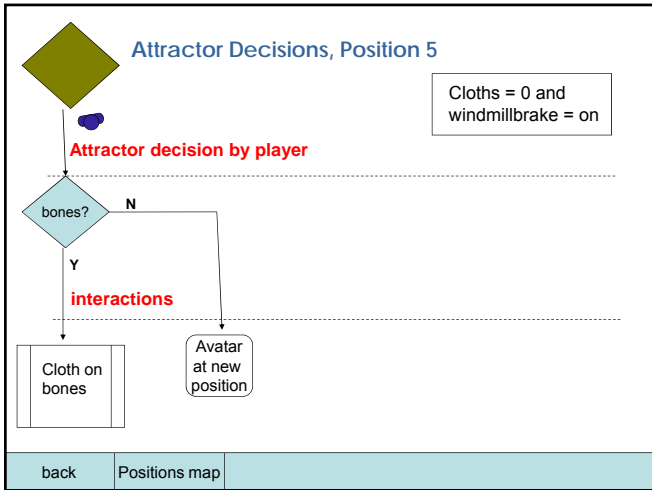
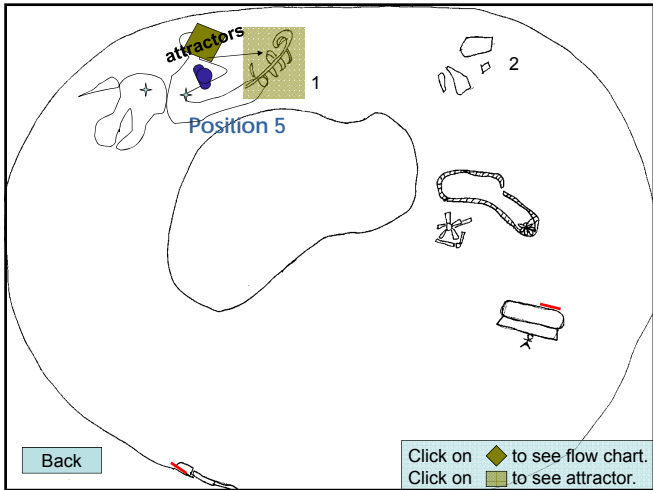
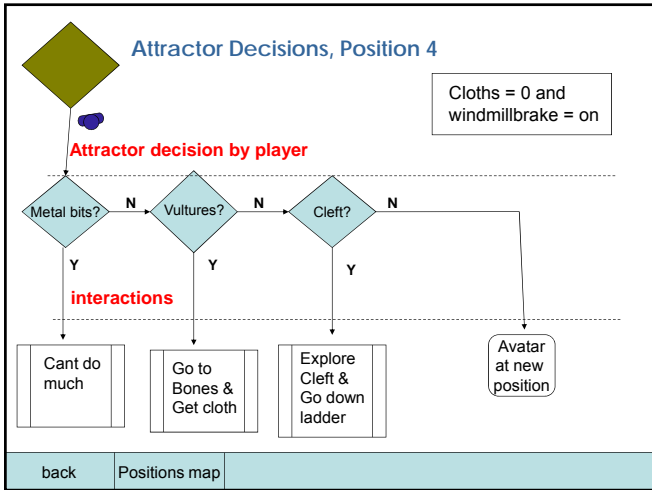
Decision by player at start time.

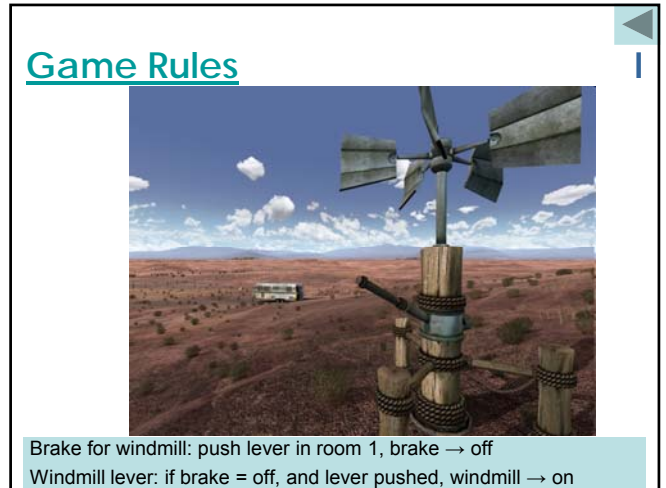
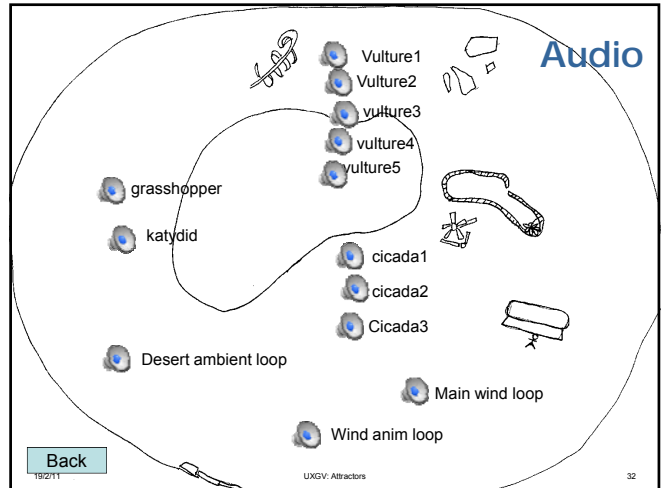
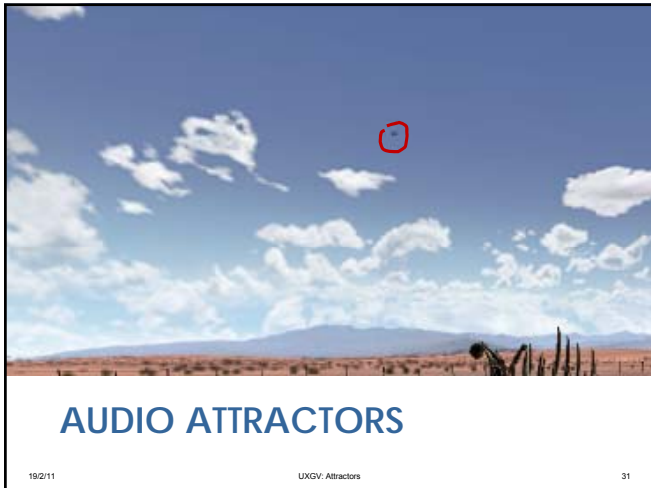
Following a certain attractor (the windmill, cleft, trailer, sign or vultures) would open up the player to different opportunities or areas of interaction. This is indicated in the process block. Sometimes by a player just following an attractor, he would trigger an event – as in the music playing and Zandi speaking by the trailer. Other times, the user is presented with an interaction that he could do. Like clicking on the windmill level (which will do nothing if the brake is off). If none of the attractors are followed the player must go on to a new position.

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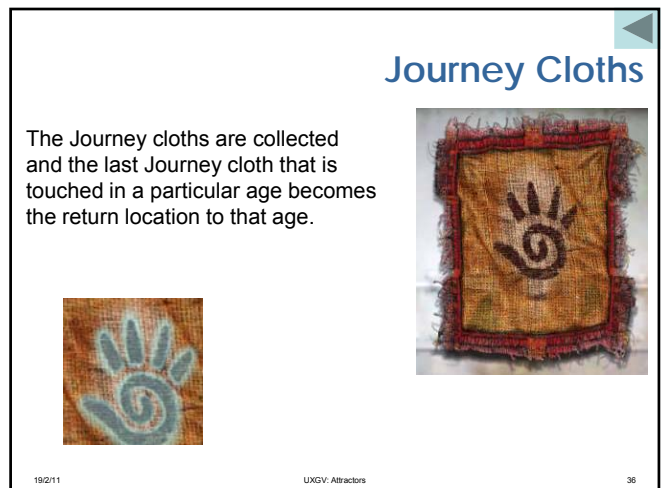




While figuring out these game rules, I realised that they were actually quite simple.

A good and enjoyable game may not be on the complexities of the game rules or the amount of them, but rather on how they are used to enhance the story and solve the mystery. Outside of the cleft the only thing the player can interact with are the cloths, Zandi and the windmill. There are 7 cloths in total. 3 of the cloths in the desert and 4 of them inside the cleft. Each time the user clicks on the cloth a part of the hand design on the cloths lights up – showing the player that there are more cloths to collect. 3 of the cloths cannot be obtained until the windmill brake is turned off and the windmill is pushed on – all these cloths are in the cleft. The windmill brake is turned off by clicking on the lever in room 1. Then you have to go up to the windmill and push the lever to turn it on. After this has been done, the player can proceed with other interactions.

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### Game Rules II

Cloths (7) collect to progress to next narrative state.


Cloth locations:

1. Behind sign at start
2. Side of Trailer
3. Dinosaur bones
4. Room 3 on wall
5. Room 2 on wall: windmill = on & combination = correct & blue com = pushed
6. Room 2 on door: windmill = on & door 2 = closed & door 1 = open
7. Water bucket: brake = off & foot pedal = pushed
8. If Cloths = 7, and click on tree, go to next narrative state



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### Game Rules III



Message in room 3

- Wall puzzle: enter in combination; press button
- ▶ Yisha comes to life and tells a message
- ▶ at this time room cloth appears on wall


### Game Rules IV



Pedal      Journey Cloth

Water bucket contraption: Lever of the bucket must be pressed and then water bucket will move down, iff the windmill is on.

### Game Rules V



Once all cloths are obtained and player has message, then can proceed to the next narrative state

- entered via tree: same design as the cloth logos.
- this ensures that the player makes the association between the cloths and going through the tree
- Clicking on the tree won't work, until all cloths taken