

What exactly is non-linearity?

Non-linearity definition

- Non-linear storyline
- Non-linear narration
- Non-linear gameplay



Non-linearity why bother?

• Choices & consequences enforce immersion with game world.

Players can shape stories and protagonists in their own way.

Non-linearity why bother?

• It allows to tell complex and interesting stories.

Non-linearity enforces replayability of the game

Choices and Consequences

Choices & Consequences Ambiguity

Choices shouldn't be obviously "right" or "wrong", in order to create dilemmas for players.

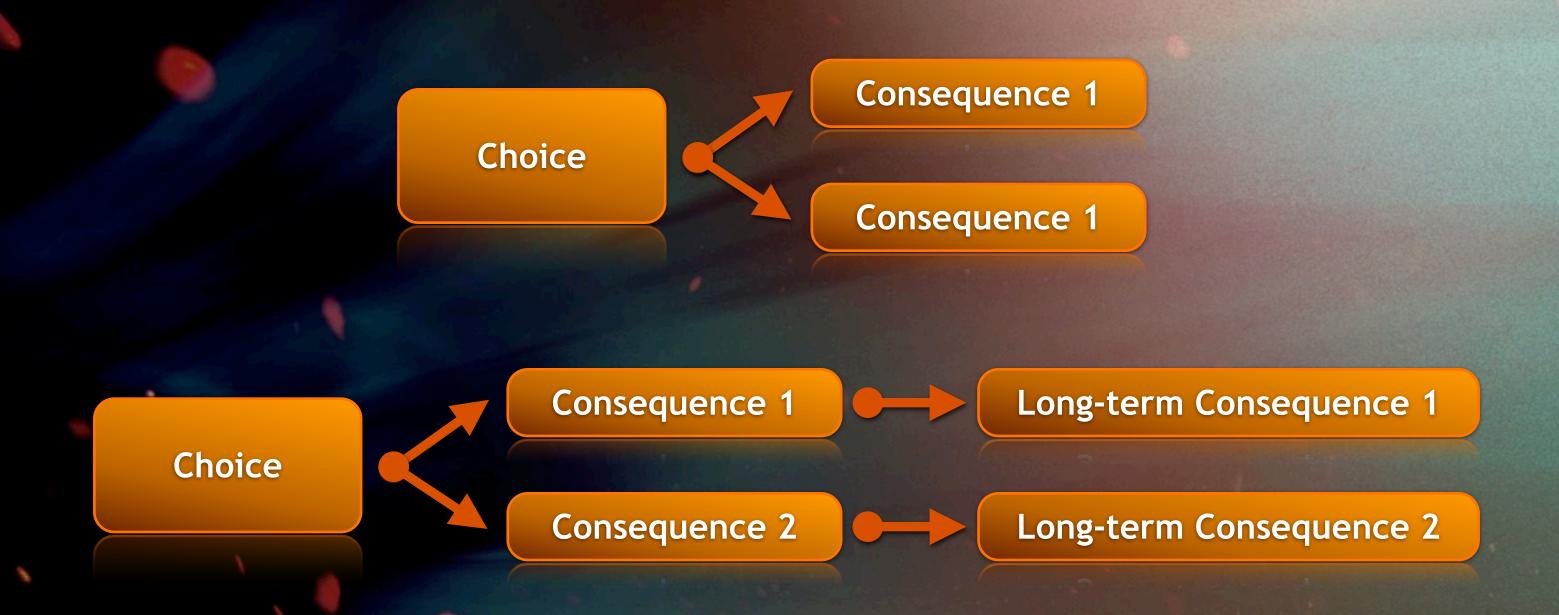
Choices & Consequences Unpredictability

- Important consequences should be delayed in time, so the players can't predict them.
- Delayed consequences make the game more consistent, in contrast to having series of disconnected scenes in game.

Choices & Consequences Weight

Consequences should be significant, so the players can feel the weight of their choices.

Choices & Consequences



What if players forget, what choice led to a certain consequence?

Flashbacks

Choice Consequence 1

Flashback part 1

What was the choice? Why was it tough?

Why was it tough?

Flashback part 2

What is the long term consequence?
Why is it significant?

Why is it significant?



Growing your sampling into a tree Branching storylines

Branching storyline

Branching storyline is a game structure, in which player choices open some quest lines and close others.



Branching game structure



What if your tree becomes a thicket?

Branching storyline issues

- Each alternative storyline makes game grow in width, instead of length.
- Each alternative quest line requires time to implement.
- •As game grows in width, it's getting more difficult to close storylines.

Trimming the thicket - control nodes



Schrödinger's cat issue

Control node issues

- •After the story reaches a control point, it may occur that an NPC can be both dead or alive, depending on our previous choices.
- "Schrödinger's cat issue" applies also to states of the world, etc.
- •To determine the state of a "Schrödinger's cat" we need to check, what is its status.

Facts Database

- Facts database is a simple virtual database of variables.
- Each time player makes a decision during an important choice moment, we add a variable to the facts database.
- •When we need to determine if a "Schrödinger's cat" is dead or alive, we simply check the variables in Facts Database.
- Access to Facts Database is available from many different tools

Schrödinger's cat gets into a Mercedes

What do call a "Mercedes"?

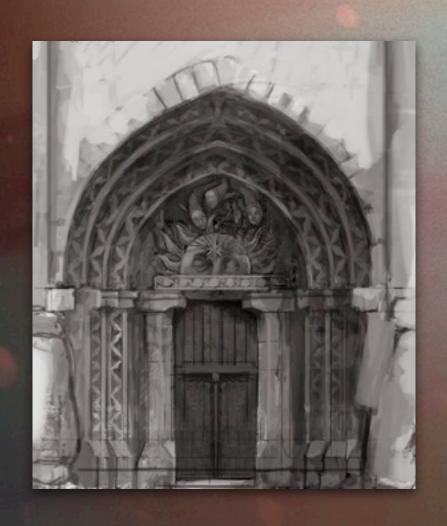
- "Mercedes" is a structure that consists of separate and independent storylines.
- To progress further in the main plot, all storylines must be completed.

"Mercedes" game structure



Basic Mercedes

- •Basic Mercedes must consist of at least two storylines (although all-time favorite is three).
- Basic Mercedes tasks players with finding physical objects.





Basic Mercedes - pitfalls and traps

- It's impossible to use same NPCs in parallel storylines.
- Balancing gameplay is difficult, because player has freedom of choosing storylines.
- Players may forget what is the main plot.
- It's difficult to implement connections between storylines.

Wait - it gets better.

Complex Mercedes

- Complex Mercedes requires gathering a number of informations, that combined tell the player full story.
- Each part of information must be separate and include only partial solution.
- Example: Find out who is the killer, after gathering clues in three places.

Complex Mercedes - pitfalls and traps

- •Designing a number of separate informations that uncover the solution only when all gathered is very difficult.
- •After it's designed, complex Mercedes is not easy to change cutting off or adding new storylines complicates the Mercedes logic.

Non-linear narration

Non-linear narration - replacers

- •Replacer is a playable character, that is not a main character of the game.
- Gameplay as a replacer is periodical and limited it's not equivalent of playing as a main character.

Replacers - examples



Replacers - examples



Replacers - benefits

- •Replacer allows us to show the plot from a different perspective, thus it gains more depth.
- •We can show events, that main character couldn't participate in, in an interactive way.
- It builds a bond between player and replacer.
- It's refreshing gameplay-wise.

Replacers - issues

- •Replacers can break immersion with main character and game world.
- •Replacers can be used only on limited spaces, so the player can't escape.
- To make replacers interesting, one must add a lot of features.

Non-linear narration - reverse chronology

Reverse chronology is a narrative tool, in which we show main character at a breaking point of plot, and then the player plays events that led to this moment.

Reverse chronology examples



Reverse chronology examples



Reverse chronology - benefits

- Reverse chronology effectively builds suspence.
- It picks player interest quickly.
- It's a comfortable tool of telling complicated stories we can divide it in parts.

Reverse chronology - issues

- It's easy to confuse players with this method the player must be focused to catch up with the story.
- Time paradox in an RPG we can't forsee what items the players will gather, what skills he'll unlock, etc.



Summary - non-linearity costs

- Non-linear story with nonlinear narrative is hard to design and even harder to implement and debug.
- It's expensive and takes long in production.
- Costs are high, but we believe that the results are worth it.

Summary - non-linearity basics

- •Non-linearities should be noticeable for players.
- A way to make them so, is to make them visible and significant.
- To make a consequence visible, we remind how was it connected to the choice.

Summary - branching game structures

- A storyline may branch into mutually excluding storylines.
- Each exclusive storyline makes game grow in width.
- A "mercedes" is a branching structure, which requires player to finish multiple story branches in order to progress.
- •A "mercedes" makes game grow in length.

Summary - non-linear narration

- •Non-linear stories can be told using non-linear narration techniques, such as replacers or reverse chronology.
- •Nonlinear narration techniques help to keep players attention.
- Nonlinear narration techniques add depth to the plot, and they present it in more interesting way.

Questions & Answers



