Nuclear War City Simulator 2019 Xtreme Edition

Origins

Game Engine

Foundations

Diagon

Populatio

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Score

Implementation

Demo

Nuclear War City Simulator 2019 Xtreme Edition

Josef Bostik Thomas van Haastrecht Eric Pereira Ryan Wojtyla

March 15, 2019

Initial Ruminations

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Pieces

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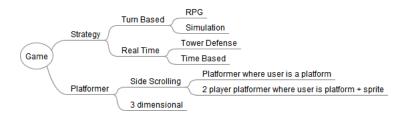
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Implementation

Dem



Settlement

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Population

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Scor

Implementation

- turn-based strategy
- 2D grid
- rogue-like

- short
- procedurally generated (we hope)
- high replayability

Game Engine

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Pieces

Resouro

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Score

Implementation

Working with Godot

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Resource

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Implementation

- Steep initial learning curve
- Official Godot documentation is expansive, but it lacks examples.
- Community tutorials are more example-based.
- Recent updates have obsolesced a significant portion of provided community support.
 - solutions for the old system

- The learning curve soon plateaus.
- The native scripting language, GDScript, is nice to use.
- An extensive collection of objects is provided.

Story

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Populati

Resource Building

Scor

Implementation

Demo

Prepare for imminent global thermonuclear war!

- Ensure the survival of as many of your citizens as possible.
- Pacify the masses.
- Manage resources.
- Modify infrastructure.

Population

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Game Engine

Foundations

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Pieces Population

Resourc

Building

Sco

Implementation

Demo

Who really wants to live anyway?

- Educate and inform your citizens (or don't).
- Encourage them to adopt behavior conducive to self-preservation.
- Don't push them too hard!
- Keep them happy.



Resources

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Game Engin

Foundations

Pieces

Resources

Scor

Implementation

Demo

Food, fuel, tools, medicine, building materials, and more!

- Optimize the distribution and allocation of limited critical resources.
- Maintain integrity of transportation infrastructure to ensure swift movement of supplies.
- Plan for the future.



Buildings

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Foundations

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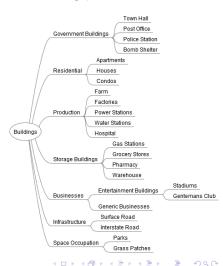
Buildings

Scor

Implementation

Permanent residence or fleeting pleasure?

- Buildings play several unique and critical roles within the city.
- Store resources.
- Maintain buildings to help keep the peace.
- Fortify buildings to increase their chance of survival.
- Production buildings can aid the surviving population.



Initial Survival Rate

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Foundations

Population Resources

Score

<mark>Implementatio</mark>n

Demo

How many survive the battle?

- Each building has a structural integrity rating.
- This rating can be improved by using "building materials" on them.
- The likelihood of a building's survival is directly related to its structural integrity rating.
- If a building is destroyed, everything inside it is lost both people and resources.



Prolonged Survival Rate

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Game Engine

Foundations

Piece:

Populati

Building

Score

Implementation

Demo

How many survive the war?

- How much food is left to feed the survivors?
- How much medical supplies do they have?
- Are there enough resources to farm?
- Is there housing enough for everyone?



Class Diagram

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Foundation

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Population

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Score

Implementation

Demo

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