

Dawn of time

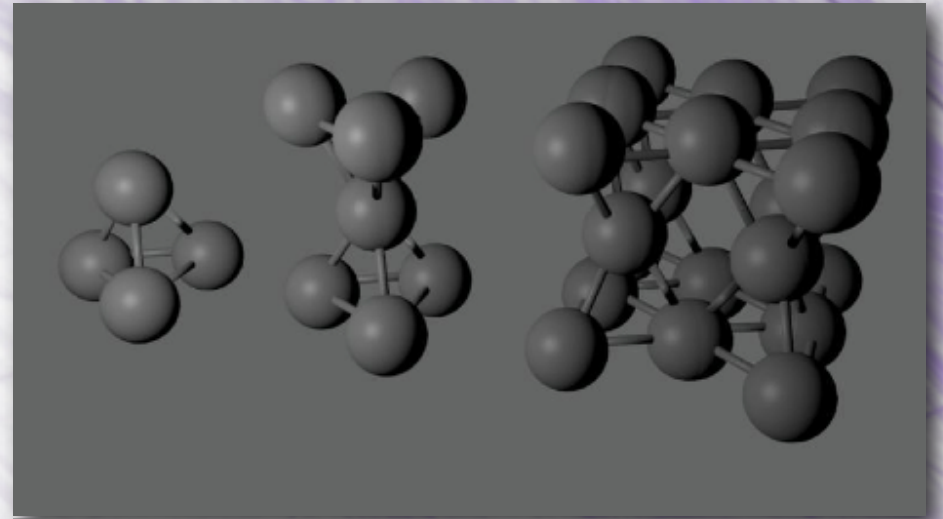
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Game Programming Laboratory 2012



Story

- What happened in the first 10^{-32} seconds of the universe?
- You are an Architect of the Universe fighting the evil Dark Architect!

Atoms




- Players will be given nucleons and electrons to craft basic atoms
- They need to construct defense structures to resist the antimatter waves of the Dark Architect

 x 60
  x 43


HYDROGENE



1  1 • | 3/5 | (33%)


CARBON



12  6 • | 1/0 | 0%


OXYGEN



16  8 • | 2/3 | (56%)


ALUMINUM



27  13 • | 4/5 | (80%)


IRON



56  26 • | 0/1 | (18%)


XENON



132  54 • | 1/0 | 0%


PLATINUM



195  78 • | 0/0 | 0%


GOLD



197  79 • | 0/0 | 0%


LEAD



208  82 • | 0/0 | 0%

URANIUM



238  92 • | 0/0 | 0%

INFORMATION

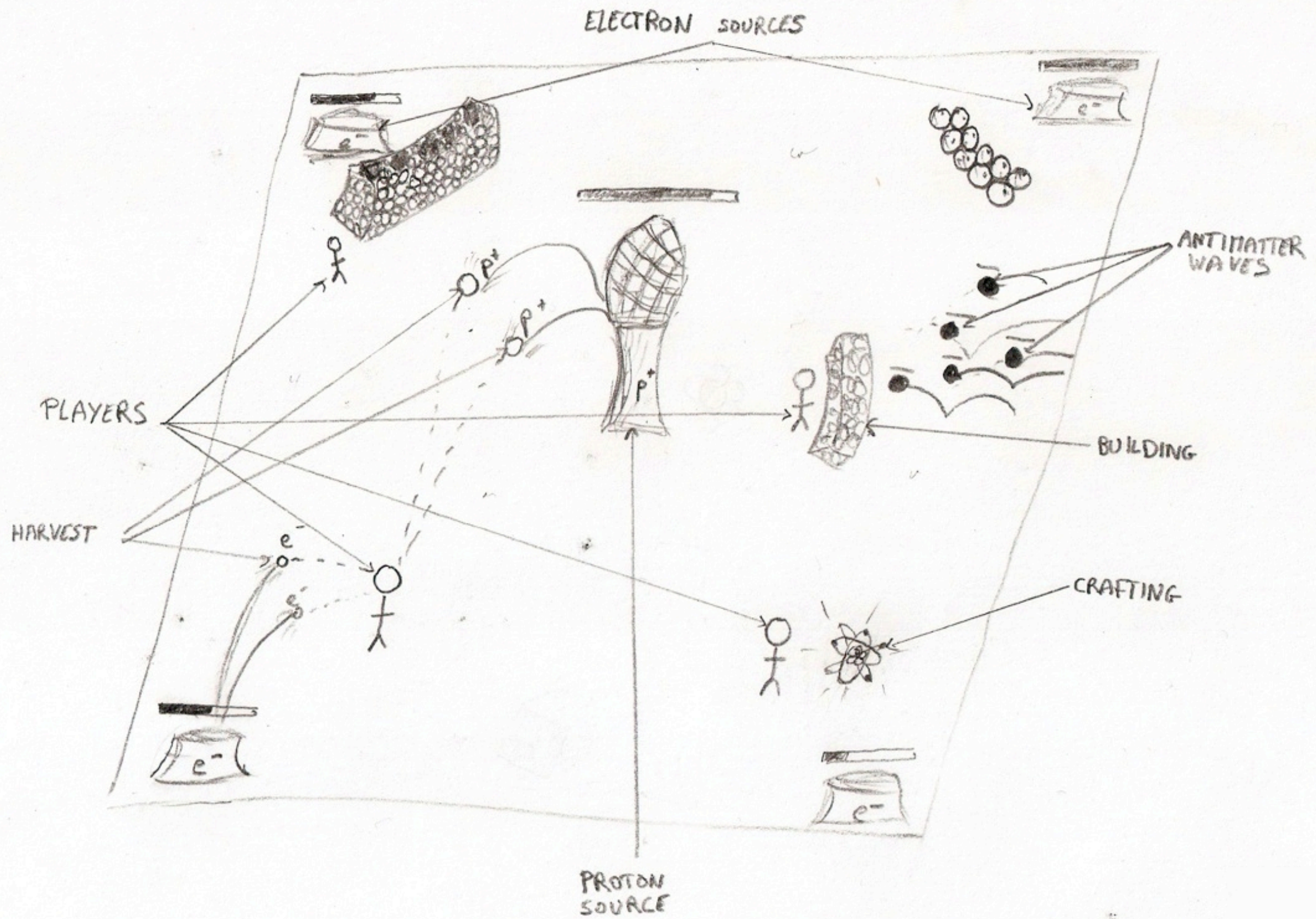
NAME: XENON
 NUMBER OF NUCLEONS: 132
 NUMBER OF ELECTRONS: 54
 NUMBER OWNED: 1
 NUMBER IN CREATION: 0
 STATUS: 0%
 USAGE: POISON.

TIME TO CRAFT: 15s
 AMOUNT ON MAP: 3
 MASS: $3,5 \cdot 10^{-25}$ kg

XENON IS USED TO POISON PLAYERS. IF SOMEONE
 STEPS FROM YOU, IT WILL STOP HIM.
 HINT: POISON A PLAYER BEFORE STEPPING FROM HIM!

Two-fold gameplay

- Players need to cooperate in the first part to protect the shared nucleon source
- At some point, the Dark Architect realizes that he has to crush the Architects and aims his antimatter waves at the individual electron sources
- Anarchy begins! You have to destruct and steal from the other players, the last man standing wins!



2004CE
16010N

Attraction

- nucleons + electrons are combined together due to electromagnetic attraction (building blocks of your defense structures)
- whether you're structures are powerful enough depends on inter-atom attraction
- matter and antimatter attract each other

Technical elements

- construction framework
- physically-based structural analysis

Big ideas

The background of the slide is an abstract composition of numerous thin, overlapping lines in various shades of purple and white. These lines are oriented diagonally, creating a sense of movement and depth. The overall effect is a textured, almost woven appearance that transitions from a lighter purple on the left to a darker, more saturated purple on the right.

Construction vs. Destruction!

The background of the slide is an abstract composition of numerous thin, overlapping lines in various shades of purple and white. These lines are oriented diagonally, creating a sense of movement and depth. The overall effect is a textured, almost woven appearance.

Cooperate but don't be a fool!

The background of the slide is an abstract composition of numerous thin, overlapping lines in various shades of purple and white. These lines are oriented diagonally, creating a sense of movement and depth. The density of the lines increases towards the top right corner, while the bottom left corner is mostly white.

Questions?