

***Egypt Adventure***

Design by Nikita Lysiuk

For PC: Windows and Linux

**Rating:** T

**Game story:**

Archaeologist Piter Miller has been teaching history and archaeology for over 15 years. From time to time, the university also sends him on dangerous journeys to collect artifacts. One of these trips awaits our archaeologist in Egypt. He has already visited hundreds of temples, mines, and dungeons and has never seen anything out of the ordinary except for old ruined places that are only valuable to historians, but this trip will change Peter's view of the world. What can he expect in the ancient pyramid of Tutankhamun? Skeletons of dead Egyptians, mummies, bats and a lot of unknown mysticism after which Peter's life will no longer be before. Will Peter be able to find the artifact and not get lost forever in the pyramid?

**Game play:**

In Egypt Adventure, Peter will explore Tutankhamun's pyramid. The pyramid will consist of 3 floors where on the top floor he will be waiting for the biggest threat Tutankhamun himself, who will protect his crown for which the main character came. Given that this is Rougelike, each floor will be randomly generated, the location of rooms, monsters, chests and stairs to the next floor will be unique for each game session. Although Peter has never encountered mysticism before, all sorts of bandits have taught him that it's better to have a weapon with you, so he doesn't forget his revolver in the box under his bed. Also, the pyramid is dark and not everywhere torches are burning, so you have to be careful because who knows what is there in the dark. The player will have to explore the floors, find different things in the chests, fight off enemies and find the crown of Tutankhamun.

**Game flow:**

While exploring dungeons, the Player can search chests and pick up loot from dead enemies. From the very beginning, Peter will only have a revolver and a torch. But during the journey, he will notice various mystical creatures that use ancient magic that seems to not exist. The player will have to find various amulets, jewelry, and rings that the ancient Egyptians made to protect themselves from magical forces. Also, the torch is not eternal, you will need to find others to upgrade it, also, surprisingly or not, other tomb robbers left their resources after a horrible death in the pyramid, so Peter will be able to renew ammunition for the revolver.

**Character and Control:**

You will play an archaeologist who has visited more than one tomb. Peter's story is difficult. He had a family, but after the death of his son, his wife could not survive this loss and left Peter. After that, he became completely immersed in his work. First of all, the basic mechanics of movement (walking). Peter also has a revolver that he can shoot from, and it will also need to be reloaded. Peter can pick up items from the chest that will improve his characteristics or give him some shields.

There will be fight system which mean that every entity can attack in his turn. Piter like a main character have the basic step-wait speed 10. Some creatures can move faster, slower or same.

**Enemy entities:**

There a few types of monsters or other entities with Piter will fight. It`s a pyramid and the enviroment should supposed to the topic.

Legend:

Health (hp): health of the entity.

Damage (two types): physical and magical

Defense: will defeat entity by decreasing taken damage

Priority: Number for Priority Queue. Cooldown will reset from priority. Entity with smaller priority or cooldown turn first.

Dodge Chance: Chance to avoid damage.

1.

Scarab:

* Short description: The small animals that bred during the stagnation of the pyrimad. But are they as safe as they look? Just can bite the Piter.
* The base hp - 15pt. Can just run and bite.
* Damage: 5.0f, 0.0f,
* Defense: 0.1f
* Priority: 1.0f
* DodgeChance: 0.05
* Symbol: S
* Specifics:

1. With the group increase damage. (1.1f bonusDamage per near Scarab)

2. Skeleton:

* Short description: Simple skeleton like everywhere except they are alive. They were thieves and died in pyramid in search of treasures.
* The base hp - 30pt.
* Damage: 20.0f, 0.0f,
* Defense: 0.2f
* Priority: 1.5f
* DodgeChance: 0.1
* Symbol: K
* Specifics:

1. Damage himself when attack (takes his bones)

2. Can`t heal himself, will take damage.

3. After death can 1 time resurect with a half of health.

3. Mummies:

* Short description: Ritually embalmed bodies brought to life by magic. They can use some magic power which help them to protect herself or damage the main character.
* The base hp - 50pt.
* Damage: 30.0f, 15.0f,
* Defense: 0.3f
* Priority: 2.0f
* DodgeChance: 0.15
* Symbol: M
* Specifics:

1. regenerate every turn on 1.0f pt.

2. Can summon minions little mummies which will have smaller stats.

4. Phantoms pharaons:

* Short description: Ancient creatures were cursed and have to wander around and only goal they have to protect pyramid and drive people crazy.
* The base hp - 60pt.
* Damage: 30.0f, 15.0f,
* Defense: 0.4f
* Priority: 3.0f
* DodgeChance: 0.25
* Symbol: P
* Specifics:

1. Has reduced physical damage and can be damaged only magical Damage

2. has 25% chance to cast a curse. (Fear Effect)

5. Sand Golem:

* Short description: The ancient one is made of sand and stone, this colossus guards the desert ruins. His body is constantly changing, raising storms, and the blows of his hands are like a collapse.
* The base hp - 60pt.
* Damage: 30.0f, 15.0f,
* Defense: 0.4f
* Priority: 3.0f
* DodgeChance: 0.25
* Symbol: G
* Specifics:

1. Can active sand shield (SandShield effect) will add a shield and player has to destroy it first.

2. Can cover floor with sand. If he has shield and place on sand shield will recover. Once per 3 turns on 15pt.

**Battle System:**

Battle type: step-by-step.

Key specifics: There is a priorety queue that will be used to determine the order of moves.

Goal: There are creatures that can fight (A creature can leave the battle radius or die).

During his turn, the player can choose one action: attack, use an ability or an item. The hero will choose the target by determining the vector of the bullet where it will fly and if there is an enemy within the radius of the shot and the correct vector, it is damaged.

Attack Resolution

Combat uses a roll-to-hit and damage system influenced by the hero’s attributes, equipment, and the enemy’s defenses.

Hit Chance:

The attacker rolls a d20 (20-sided dice) to determine if the attack hits.

The target's Dodge Chance is subtracted from the roll. If the result is greater than or equal to the target's Dodge Chance, the attack hits.

Modifiers affecting hit chance include:

Hero’s equipped amulets (e.g., +2 to hit rolls).

Target’s special traits that increase/decrease Dodge Chance.

Example:

Hero rolls a d20 and adds a +3 bonus from their stats and amulet.

Enemy has an AC of 15 and a Dodge Chance of 2.

Final roll:

𝑑20 + 3 − 2

If the result ≥ 15, the attack hits.

Damage Calculation:

Once the attack hits, roll for damage based on the weapon's range (e.g., 1d20 for 10–30 damage).

Modifiers such as amulets or weapon effects adjust the damage:

Poison adds 5 damage per turn for 3 turns.

Fire deals an additional 1d6 damage on hit.

Final damage is reduced by the target's Defense:

Damage=Weapon Roll+Effects−Defense

Status Effects:

Targets can have status effects (e.g., Poison, Burn).

Poison: Deals -5 HP at the start of the enemy's turn for 3 turns.

Burn: Reduces the target’s Attack by 1 for the duration.

Effects are stackable but have individual timers.

Experience Points:

**Items And Effect:**

1. Heal Potion:   
    Short description: An ancient decoction that can improve the well-being of the hero, and magically heal wounds.  
    Specifics: Will heal player per turn.  
    Symbol: 'p'.
2. Bullet:

Short description: Simple bullets for Piter`s revolver.

Specifics: has a physical and magical damage could be encreased by modifiers (amulets).

Symbol: 'b'.

3. Torch:

Short description: Ancient torches were made by egyption a thousand years ago.

Specifics: Player can lit a torch to increase visibility range.

Symbol: 't'.

4. Amulets:

Short description: Magical amulets. They were a gift for a pharaon. He had never worn them.

1. Damage Amulets: will increase Physical or Magical Damages

2. Health Amulets: will increase max health of player.

3. Armor Amulets: will increse defense and dodge chance.

5. Grenades:

Short description: Fancy grenades are made by hand using nails.

Specifics: Could be thrown to the enemy and deal damage.

Symbol: 'g'.

6. Letters:

Short description: A pieces of paper with someone`s story.

Specifics: Player can read them and discover some information aboud world.

Symbol: 'l'.

Effects:

Fear effect:

Short description: Phantoms are so scary that they scare the hero.

Specifics: Renew cooldown of entity and increase Priority.

Heal effect:

Specifics: Heal entity on some pt per turn.

**Main Gameplay Concepts and Platform Specific Features:**

**1. Core Gameplay Elements:** The player controls archaeologist Peter Miller as he explores Tutankhamun’s pyramid in search of an ancient artifact. This is a **roguelike** game with exploration and combat systems.

* **Genre:** Roguelike, Dungeon Crawler, Adventure game.
* **Core mechanics:** Exploring randomly generated levels, finding treasures, fighting enemies (mummies, skeletons, bats), and collecting weapons and items for survival.
* **Levels:** The game is divided into three levels, each representing a different floor of the pyramid. The player starts from the first floor and must work their way down to the final floor, where the main boss—Tutankhamun—awaits.

**2. Game Structure:**

* **Levels:** Each level is randomly generated with new rooms and challenges on every playthrough. The player must explore the dungeon, discover hidden rooms, and find loot and weapons.
* **Progression:** Each level ends when the player finds the stairs leading to the next floor. On the final floor, they must face Tutankhamun to complete the game.
* **Death System:** If the character dies, the game resets with newly generated levels and enemies.

**3. Unique Gameplay Elements:**

* **Random Generation:** Each game session offers unique, procedurally generated maps, enhancing replayability and increasing the challenge for players.
* **Light System:** The pyramid is mostly dark, and the player will use torches to light their path. The player's visibility is limited to areas lit by torches or other light sources. This adds a stealth element, as players may need to avoid enemies in dark areas.
* **Combat System:** Peter has limited ammunition for his revolver, requiring players to conserve bullets and find other means of defense.

**Game World**

**1. Pyramid of Tutankhamun (Main Setting):**

The gameplay takes place entirely within the mysterious and ancient **Pyramid of Tutankhamun**. The pyramid consists of **three distinct floors**, each with a unique atmosphere and set of challenges.

**2. Environments:**

* **Floor 1 (Entrance Halls):**

The first floor represents the **outer chambers** of the pyramid. It's filled with narrow corridors and small rooms. There are a few scattered light sources, but the player will often find themselves in near darkness, relying on torches to explore.

* **Floor 2 (Ancient Catacombs):**

The second floor is a **maze-like labyrinth** filled with tombs, traps, and forgotten burial chambers. This floor feels claustrophobic, with skeletons and mummies lurking in the shadows. The rooms are larger and more complex than the first floor, and the atmosphere is more oppressive, with constant danger lurking behind every corner.

* **Floor 3 (King's Chamber):**

The final floor is the **King’s Chamber**, where the ancient Pharaoh Tutankhamun guards his most prized artifact, his crown. This floor is grand and imposing, with larger rooms, elaborate traps, and mystic energy coursing through the air.

**3. Connection and Navigation:**

The game world is connected in a **linear** fashion, where each floor must be completed to advance to the next. The player will navigate through the pyramid by finding the stairs at the end of each floor, leading to the next level. There is no hub-style navigation; the game flows progressively from the entrance of the pyramid to the final showdown with Tutankhamun.

**Interface**

**1. General Layout:** The game will be presented entirely in ASCII art within the console. The player will navigate the game world using simple key commands, such as arrow keys for movement and specific keys for actions like interacting with objects or accessing the inventory. The interface will focus on clarity and simplicity, while also reflecting the sense of mystery and danger inside the pyramid.

**2. Key Elements of the Interface:**

* **Game World View (Center of the Screen):**
* The main portion of the screen will display the current area of the pyramid the player is exploring. Rooms, enemies, and items will all be represented using ASCII characters. For example:
* Walls: #
* Stairs: > (up stair), < (down stair)
* T (torch tile)
* Peter: @
* Enemies: M (for mummies),

K (for skeletons),

S (for scarab),

P (for Pharaon`s phantoms)

G (for Sand Golems)

* Items:

b (for bullets)

t (for torches)

p (heal potion)

Only the areas lit by the player’s torch will be visible on the screen. Other parts of the pyramid will remain hidden in darkness, represented by “.”. As the player moves, areas they explore will light up, while others will fade into shadow.

* **Player Stats (Top or Bottom Bar):**
* The player's key stats will be displayed at the top or bottom of the screen in a status bar format, making it easy to monitor at all times:

**HP: 85/100 | Ammo: 6/6 | Torch Time: 3:45**

* **HP (Health Points):** Shows the player's remaining health. This decreases when the player takes damage from enemies or traps.
* **Ammo:** Displays how many bullets are left in Peter’s revolver. Since ammo is limited, this encourages strategic usage.
* **Torch Time:** This shows how much time is left for the current torch before it burns out. When the timer runs out, the area around the player becomes dark again unless they light a new torch.
* **Inventory (Side Panel or Toggle Screen):**

The inventory can either be displayed on the side of the screen or opened with a key (e.g., I). It will list all items Peter has found so far, including:

* **Relics:** Ancient artifacts Peter has discovered. These may have lore, buffs, or special abilities.
* **Additional Torches:** Extra torches the player can use when the current one burns out. These will be represented as "Torch x3" for example.

The inventory could look like this:

Inventory:

1. Revolver Ammo: 6

2. Torches: 2

3. Relic: Ancient Scarab

4. Relic: Tutankhamun's Ring

**Text Log / Notes (Bottom or Side Panel):**

A section of the interface will display **narrative text** such as notes, journal entries, or Peter's internal thoughts. This will help players piece together the story of the pyramid and Peter's journey. This text section will also show any messages from the game, such as:

“You found an old scroll! It describes a secret passage in the pyramid.”  
“The torch flickers... it might burn out soon.”

The text log will provide a sense of atmosphere and background lore, adding depth to the player's experience.

**Mechanics and Power-ups**

**Gameplay Mechanics:**

The core mechanics of the game revolve around exploration, combat, and survival. The player, controlling Peter Miller, must navigate through the randomly generated floors of Tutankhamun’s pyramid while facing various dangers and uncovering secrets. Here are the key gameplay mechanics:

* **Randomized Dungeon Layout:**
* Each game session generates a new, unique pyramid layout, with different room locations, enemy placements, and item spawns. This mechanic ensures that no two playthroughs are alike, encouraging replayability.
* **Combat:**
* The player uses Peter's revolver to defend himself from enemies such as mummies, skeletons, and bats. Ammo is limited, so the player must strategically decide when to fight and when to avoid confrontation.
* **Torch Mechanics and Darkness:**
* The pyramid is shrouded in darkness, and Peter must light torches to see his surroundings. The torch has a limited duration, and when it goes out, the player is left in darkness, making it harder to navigate and fight enemies. The player can find additional torches or fuel to extend their current one.
* **Relic Collection:**
* Throughout the game, Peter will find ancient relics that can offer different bonuses, such as increased movement speed, additional ammo, or special abilities like temporarily slowing down enemies.

**Power-ups:**

* **Health Potions:**
* Restores HP to Peter, allowing him to survive longer against the threats in the pyramid.
* **Ammo Pickups:**
* Peter's revolver has limited ammo. Collecting ammo pickups allows him to reload and continue defending himself from enemies
* **Torch Refills:**
* These extend the duration of Peter’s torch or provide new torches to light the darkened hallways. Managing light is key to survival in the pyramid.