„ S.A.W.Z.E.“

“The Super Awesome Wheelchair Zombie Escape”

Project Arbeit 1.Semester, Games Academy Berlin

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# Vision statement

The game S.A.W.Z.E. is inspired by the old school arcade legend “Pac-man” and it aims to bring out the hectic and dynamic game play into a modern theme with more complex mechanics. The main goal of S.A.W.Z.E. is to add diverse features like collectable power up items or different opponent types, as well as to add level objectives for the player to accomplish, while keeping simple and dynamic gameplay.

Signature game mechanics of pac-man such as the constant motion of the character who can be navigated by the player in all 4 directions, but cannot stop, the collection of point-giving items at each step, as well as the top-down view perspective over the level will be discovered in the mechanics of S.A.W.Z.E., however all of them will have a special and unique twist on them, thus adding to and expanding the classic game feeling and atmosphere without just being a blank copy of it.

# USPs

* **Level Objectives**

It is not enough just to escape from the level in order to be successful in SAWZE. Before the escape, the player needs to accomplish a task and by doing so the level exit is activated. These tasks will be always shortly communicated in the form of a level briefing and will be orientated in the context of supporting and protecting a group of survivors. This way the player will have a feeling of purpose when navigating through the levels, but will not be distracted by cut scenes or story telling elements.

* **Dynamic Gameplay**

The fact that the player cannot stop, but only determine the direction of movement, the Virus clouds draining the health bar, the limited antidotes placed on the level, which recover the health of the player and the constant danger of the zombies lurking around, combined with the limited possibility of eliminating these dangers, provided only by occasional and limited power ups, will provide the payer with a dynamic and hectic game experience and give him/her the sensation of constant necessity to move and escape.

* **Power ups**

Throughout the levels the player will have the chance to collect and use diverse but limited power up items, which will be of significant aid to him in accomplishing his tasks and escaping each level.

* **Art Stile**

SAWZE will bring the player in a well-rounded and smooth cartoony environment, defined by bright and strong colors and simple, clear but organic shapes of assets and characters. Goal is to create a game world with abstract designs, which give the player a feeling of being in a comic book or a cartoon, but remain close to realistic objects and items that are easy to recognize and identify with. Such effect is to be achieved by the choice, balance and contrast of colors, dark outlines and smooth, round, low detail in both environment objects and characters.

* **Fun Gameplay and visual presentation**

The main USP of SAWZE is the combination of the dynamic but intuitive game play and the fun cartoon stile of the game. It is very easy for the player to interact with the game and achieve a feeling of flow already in the first minutes. The level design and art of the game are communicating a goofy fun experience for a wide potential target group of players and even losing the game is not provoking a negative frustration but rather a teaser for the player to give it just one more try.

# Story and setting

In the middle of a scary zombie virus outbreak a new hero rises. Not the classic fast, strong, charismatic, young action hero, who fights his way through Zombie hordes armed with nothing but his pocket knife and can run through walls, but a rather different hero: Major Tomahawk is a retired, old war veteran in a wheelchair, due to an old injury. He lives alone and usually doesn’t favor the company of other people and neither do other people like being in his company.

Never the less, when helpless people need his aid in this scary zombie chaos, Major Tomahawk takes initiative in his hands and rises to any challenge, regardless the limits set to him by age and the wheelchair, which constantly has issues with the brakes.

Soon he finds himself protecting a group of survivors and volunteering for the most difficult of tasks.

# Game play and player tasks

*What can the player do? Why and How?*

In S.A.W.Z.E. each level has objective that needs to be accomplished in order to pass the level. When the objective is achieved the exit of the level will be activated and the player needs to enter the exit area. The different level objectives are defined by the game modus used in the level. The goal is to have at least 2 different game modus in order to bring variety in the challenges between different levels.  
*(For more Details on power up items, please see chapter 7. Features, Game Objectives)*

The player can navigate the game hero in all 4 available directions in any level (up-down and left-right) by using the arrow controllers or WASD on the keyboard, or play with controller. The character is in constant motion so there is no way to stop. This makes the game play dynamic and the player needs to think quickly and on his feet regarding the directions he takes. This decision needs to take in account the following factors:

* Where is the game objective that the player needs to reach?
* After achieving the level objective: where is the level Exit and how to get there?
* Where are the Zombie opponents?
* Will the player have enough health to pass through “The Zombie-Virus Clouds”?
* Will the player have enough health to pass through an area that has no antidotes left?
* Does the player want to attempt to collect and use a “Power up Item”? Or is it too risky?

All Power up items are activated passively – the player needs only to drive through them and they are automatically activated. They can be of great help for the player but collecting them might put the player in great risk by exposing him to the Zombie opponents and draining the Health bar. This is why collecting these items will be among the critical decisions the player needs to make while playing the game.   
  
*(For more Details on power up items, please see chapter 7. Features, Power Ups)*

# Game play summary and overview

*Game loop overview:*

Before the level starts, the player sees a brief explanation of the setting background as well as the targets of the upcoming level on a mission briefing screen. After reading the briefing the player hits any button to start the level.

For example the level briefing might be something like this: "Jenny has gone off to search for food and hasn’t returned yet. You have to find her and bring her back to the group!” In addition there is also a picture of the objective (in this case a picture of Jenny). Also there is an object navigator icon on the side of the screen, which guides the player to the location of the objective by showing him the direction he/she needs to take. After successfully accomplishing the level objective the object navigator icon shows to the player the direction of the level exit.

The player then presses any button, he/she is immediately taken to the level screen. The player figure is set in motion straight away (the wheelchair has broken brakes!) and the player navigates in the 4 directions.

Every step allows the player to collect distributed "Antidote Packs" which the hero needs to recover the health bar (located in the top-left hand corner of the screen), which constantly drops slowly as the air is contaminated throughout the whole level. Additional danger is presented by the clouds with concentrated zombie virus which drain the health bar significantly when the player drives straight through them. If the Health bar gets completely empty – the game is lost.

There are zombies lurking in the levels and the player must skilfully avoid any collision with them as this will mean the game is lost.

Due to the constantly dropping health bar, the lurking zombies and the fact that the hero can’t stop his wheelchair, a hectic and fast-paced game ensues.

There are a few "power up items” available to help the player. The player has to quickly decide, does he/she want to get a power up and risk low health bar and confronting zombies, or does he/she want to head straight to the level objective.

When the player accomplishes the level objective, the level exit is activated. The player now needs to manoeuvre the hero to reach the level exit quickly. When the hero reaches the level exit with the level has been successfully completed;

Straight away the player sees a message on the "level accomplished screen" with congratulations for a hard-earned success. Clicking any button will start the next level.

# Visual presentation

All information on Graphic Stile as well as Art and Game references are to be found in the “Art bible” document.

# Features

# 7.1 Controls and basic obstacles

SAWZE offers to the player simple and intuitive control mechanics. Playing the game requires only 4 buttons/commands as input for the directions available to the player. All power ups are activated passively without any input required from the player and the hero figure never stops so all the player needs to do is give in the direction. Though simple this input is enough to create the hectic and dynamic game play which characterizes SAWZE and the level design and variety delivers a challenge to the player both on both motoric as well as tactical level.

The player moves with constant speed, except in the case of the Nitro Pack and **Super Awesome Antidote** power ups (which increases the speed) and the **broken glass** on the floor (which decreases the speed). The fun and cartoony stile of the game has impact even on the navigation: the hero will shove his head and shoulders left and right when taking turns, he will leap forwards when hitting a wall or other obstacle and he will leap backwards when speeding up with the nitro pack.

# 7.2 Health bar, Contamination and Antidotes

To reinforce the hectic feeling of the game play on top of the constant motion of the payer, there is also an additional stress factor which pushes the player to fast decisions and constant hectic movement through the levels. This factor is the **contamination**. Because of the zombie virus outbreak every level is contaminated and the plyer loses health even outside of the **concentrated zombie virus cloud**. This contamination delivers however a significantly lower penalty to the health bar than driving through concentrated zombie virus cloud, which has a major health penalty.

The player can monitor how much health he/she has left on the **health bar** positioned on the top left corner of the screen.

Collecting **Antidotes** is the only tool the player has available to recover health. This makes collecting those a constant necessity and pushes the player to take alternative routes if possible in order to avoid passing through an area twice, because though the contamination is constant and the concentrated zombie virus clouds are permanent too, the antidotes disappear after being collected. Therefor it is usually not recommended to go back the same way.

This constellation and game play balance between antidotes and strongly contaminated areas is a great tool for the level design, allowing wide variety of strategies and paths for each level, thus bringing a new challenge for the player for every level. It also gives the opportunity to create “dead ends” and “trap areas” on the levels. So the player not only has few possible paths to complete the level, but also few paths that will lead him to certain fail.

# 7.3 Game Objectives

One of the USPs of SAWZE is introducing to the player objectives to complete for every level before escaping. This gives more purpose to the gameplay and is essential to the hectic but fun game play.

In SAWZE there are 2 possible Game Options as features with multiple content variations of them in order to avoid repetitiveness:

* **Collect Item**

This Game Option challenges the player to find and collect a specific item of importance. There are two variations in content for this Game Objective Option: Medi pack and/or Food Supplies. The different levels can have multiple collectable items – the more the player needs to collect, the higher the difficulty of the level. After collecting all the level exit is activated and the player can escape the level.

* **Save the trapped survivor**

In this Game Objective Option the collectable is not a thing but a person (or an animal). In content variation SAWZE has 6 different types of trapped survivors: older woman, older man, younger woman, younger man, a dog and a cat.   
In general they function similar to the collectable items with one significant difference: after “collecting” them, the trapped survivors follow the player until he reaches the level exit. If a trapped survivor collides with a zombie, the player fails the level as if he/she was caught by the zombie themselves. This makes the “save the trapped survivor” game objective significantly harder and more challenging than collecting items. A level can have more than one trapped survivor as objective, so by the end all survivors will follow the moving hero in a tail behind him – the more they are, the harder it gets to avoid zombies.

The two game objectives can be used together, for example: “save the trapped cat and get some food on the way out!” This on its own is in a way a third game objective from the perspective of the player.

# 7.4 Opponent Types

In SAWZE there are two zombie types that the player needs to avoid: Evil Scary Zombie and Hunter Zombie. If they catch the player or a following trapped survivor the level is failed.

* **Evil Scary Zombie**

The Evil Scary Zombie is the simpler basic opponent type. It follows a pattern between multiple points on the level, given to it by the level designer and always keeps a constant speed which is slightly slower than this of the player. Alone in a big room this opponent isn’t much of a threat to the player, but in greater numbers or in tight corridors the Evil Scary Zombie a foe to reckon with.

* **Hunter Zombie**

The Hunter Zombie is the more advanced opponent in the game and significantly bigger threat to the player. Similar to the Evil Scary Zombie the Hunter patrols between predefined areas on the level and his speed is even slower than the speed of the normal zombie, however if the Hunter Zombie finds himself facing the player in a direct line with the player (no obstacles in between) he will charge with increased speed in the direction of the player and will even follow him behind one corner. If the player manages to secure distance from the Hunter Zombie behind minimum of two corners, the Hunter Zombie will leave the chase and will resume his predefined path.

# 7.5 Power Ups

There are 3 power up items available to the player in SAWZE: the **Nitro Pack**, the **Alarm** and the **Super Awesome Antidote**. They are all activated passively straight after being collected by the player and their effects are, in the spirit of the game, all absolutely nonviolent and cartoony.

* **Nitro Pack**
* **Alarm**
* **Super Awesome Antidote**

# GUI

(GUI)

+mock up

# Target group, genre and difficulty level

(Target Group, Genre and Difficulty level )

(<)The content of the game allows a brought specter of players as it contains no violence or horror, thus allowing a 6+ age group. The minimum age is set at 6 years as suggested by the USK, due to the considerable pressure to act exerted in action packed sequences.

Age restriction: 6+

Gender: both

Gaming experience: none required

(<)The genre of the game also reinforces the placement of the player age restriction at 6+ as it is a combination of “arcade” and “jump and run”. The essential aspects of the classic arcade gameplay such as easy to access, simple controls and a clear game task, as well as skill and speed of reaction requirement are characteristic for S.A.W.Z.E. Some major jump and run gameplay aspects, such as the comical figures controlled by the player, who seek to run their way through various levels whilst overcoming a range of obstacles is the second key flavor of the game. Recent trends in this genre are also represented in the game play of S.A.W.Z.E., which is enhanced with missions, adventure elements and collectable items in 3D environment.

Source: <http://www.usk.de/en/classification/genres/>

(<)The level of difficulty of the game play allows a brought specter of players. The controls are fairly simple and intuitive and the difficulty of the levels increases in small steps adjusted to a general learning curve regarding the game mechanics. The idea behind the level progression is “easy to learn, difficult to master”.

The difficulty of the levels will be defined by the following components and increasing difficulty will be achieved in the level design by adding one of the factors below on top of each next level (or each second level):

* the size of the level (bigger levels allow more “dead-end” paths),
* the quantity of Zombie Opponents,
* the quality of Zombie opponents (additional Zombie types with more efficient Path finding scripts, faster movement or special features such as additional Z-Virus trail behind the Zombie for a number of map tiles)
* the quantity of collectable objective items
* the areas infected from Z-Virus
* the quantity of Antidotes placed on the level

# 10. Critical success factors

(Critical Success factors)

()Pacman+  
The game experience should be associated with the game experience in pacman. The core features of pacman should be represented but adjusted. The changes on these core features should not be too big and afar from the original – they should remind the player of the pacman game experience. At the same time the game should also have its unique traits.

()Visual Presentation

()Fun Game play

() Level Balance  
The level design and the balancing of level objects it a major critical success factor. All levels will be in one size and with a fixed top-down camera, which means that the various obstacles and features of a level are limited to one-screen view. A very balanced and smart placement of all level components and their balance is critical for the entertaining effect of the game. Poorly designed levels may end up being too easy to win or absolutely impossible to pass.

# 11. Team Structure and Tasks

(Team Structure and Tasks)

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# 12. Tools and Platform

(Tools and Platform)

**Platform:** S.A.W.Z.E. will be developed for PC at first. Later adjustment on other platforms will be possible.  
  
**Engine:** Unity3D  
  
**Audio:** SFXR  
  
**Graphics:** Maya; Blender; Max; ZBrush; Photoshop; After Fix; dDo; Knald; nDo²

# 13. Development Stages

(Development Stage Overview)

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