# Game Dev Diary – Luisa

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| Date | Entry |
| 24.04.2019 | * Created Unity project (without real plan) and uploaded to GitHub * Found models for prison/dungeon scene in Asset Store and created first level version with it * Added post processing to make it look interesting/different * Discussion with Tim:   + Agreed to create a brawler with cute characters   + Set in prison, as both characters are criminals   + Cute controls? Wonky character movement? |
| 26.04.2019 | * Tim added character models 🡪 knights to fit dungeon/prison setting instead of modern criminals * Also added animations that really fit “cute” and “chubby” characters * First version of PlayerControl & HealthSystem look great so far * Only small changes on camera |
| 27.04.2019 | * Project clean up * Merge conflict yesterday on scene 🡪 separated test scenes to avoid this now! * Bug found: Weapons decided to inflict damage via OnCollisionEnter. This triggered as well when not attacking and only touching another player with weapon. FIX: Weapon now knows via Boolean if it’s attacking. Boolean is set and reset again, weapon does not inflict damage when false. * Tim added more animations for kick & knockdown * Added health bars to characters to visualize damage in combat * Bug found: Health bars show that sometimes the player does “double-damage” to their opponent when only attacking once. Weird behavior that only happens sometimes and shouldn’t be happening. Needs more investigation. * Tim also added functionality for knocking down enemies, picking up weapons and unarmed fighting 🡪 good progress in game control |
| 28.04.2019 | * Tim added first version of multiplayer and some more animations * Changed skybox to get rid of the standard unity one in background |
| 29.04.2019 | * Now focusing on intro and outro: Added first version “FIGHT!” before and “PLAYER X WON” after battle, always fading in and out with a blackscreen to give the gameplay a context to take place in * Fading to black allows for easy scene transitions without the player noticing too much: Added main menu scene that entices the player to press a button to begin the game * Main menu setup rotates around itself to give the impression of a rotating background (the skybox) inside the menu * No idea for a title or real “story” yet, placeholder text must be enough for now * Also added auto-return to main menu after game end to make instant restarts possible * Small improvement: Players now display their player number to make them easier to distinguish in battle * TMPro Standard font doers not fit the medieval setting – found better font online, created character atlas and changed it everywhere in game. Looks much better * Bug found: Input mapping flawed, both players move via one controller * FIX: Tim found the solution, both input settings were getting input from every controller axis, they need to specify the controller number explicitly |
| 01.05.2019 | * Added intro text as story to be displayed after starting the game in main menu 🡪 short text on a scroll. Placeholder text so far, still no great idea * Since Tim fixed controller input now, the game can easily be started by controller button press, making the ui buttons redundant (will keep them around just in case) * Some project and script clean up * Updated the main scene: placed more objects to make it more interesting to play in * Bug found: Players were able to pick up a weapon from the hands of a player that was already using it. Found that one by accident when attacking P2 and it somehow repeated the pickup animation I did earlier and just took my weapon :D * FIX: Weapon now knows if it’s already in usage via boolean. Can only be picked up if not |
| 02.05.2019 | * Bug found: The “pickup in process” Boolean was not reset correctly, only once a weapon was picked up. That meant that a player could do the pickup animation without touching a weapon, the run up to a weapon and immediately pick it up once touching it without doing the animation again * FIX: the Boolean is now reset after a short time, regardless of whether a weapon was actually picked up or not * Thought I fixed the double hits, but they keep happening, wtf * To make the game a bit more scripted, the winning player now automatically taunts on game end. Also, both players block to signal that they’re ready on game start * Bug found: The player character still moved during pickup, taunt, getting hit or blocking animation * FIX: read current animator state and return from Update() before movement to stop the player from moving * Also added more weapons to the scene, to test the weapon blocking that Tim added * We want sound! Found two (mostly) fitting tracks for the game scene (very cool) and the menu (sound a bit like elevator music but it shall do for now) * The music also fades in/out on scene changing to complement the blackscreen that comes up as well * Tim worked a lot on animations to fix a lot of bugs that came up when I tested multiplayer with Michel, like knocked down players standing back up immediately because something went wrong with the transition. I have no full idea of all his changes (mostly transition exit times I was told) but the bugs seem gone now * Tim also fixed the catapult bug 🡪 players that are hit can no longer be catapulted into the air, the y-axis is not set to 0 * To be ready for the presentation tomorrow, I also winged it and wrote a short intro text to be displayed on the scroll. The story is not as elaborate as we once wanted, but it’s fine. We also have a title now! Random game name generators only came up with useless ideas, so I was stuck on that, but somehow, I came up with “The winner takes it all” which has a nice ring to it. Guess we’ll keep it 😊 * Another FIX that is long overdue: The ground now has a gigantic collider to avoid weapons from accidentally being pushed through it and dropping into the eternal abyss * I also gave the players more lives to make the game last longer and to kind of counter the random double hits that still keep happening, but that doesn’t solve the problem. |
| 06.05.2019 | * The presentation went fine, but of course the double hits kept happening all the time :D * We were told the give our game more “character”, to make the player characters unique and help the player identify themselves with them. Therefore, we want to make the characters clumsier, by letting them stumble and fall when running against a wall for example. Not sure, how much we’re going to be able to achieve until Friday, but let’s see * In the presentation, the players would often just stand in front of each other and keep hitting until one of them died. Blocking did not end up being useful yet, so now I added that successfully blocking an attack knocks down the attacker, giving the blocking player a concrete advantage by doing so. I’m curious if next Friday, players will start blocking more often. * Also, a big change I made: our camera used to be static, which was not helpful to engage the player into the game, draw them and keep them interested. Therefore, our camera now moves. Since we have all players (just 2 right now, but the system would support more) on the same screen, we cannot simply let each player control the camera movement. This is why our camera now calculates its position depending on the player positions. If the players are close together (maybe to engage in combat), the camera draws close as well to make the combat feel more personal and more thrilling. If the players run away from each other, maybe to try and find weapons on the map, the camera zooms out to ensure that all players are visible on camera at all time. I achieved this by calculating the point that’s most in the middle for all players (all players have the shortest distance possible to it), called centroid. Simply calculating the middle would work for 2 players, but since we might plan on supporting more, that was the way to go. The camera now moves with this point and always looks at it. Also, I calculate the maximum distance between two of all players and use it to determine the necessary camera height to get all of them on camera. Then, I lerp the camera position accordingly. So far, it works really great with two players, testing it with several players still needs to be done. * I also changed the skybox to be more realistic and fitting, I guess a galaxy in the background wasn’t the best choice for a medieval setting :D |
| 07.05.2019 | * It seems like Tim figured out animation events (I always keep forgetting how to set these up…) and used them to fix the annoying double hits that kept happening. We can now precisely set the attack Boolean on each weapon to only be true for a very short amount of time and in the right animation frame. Seems like this is finally FIXed! |
| 08.05.2019 | * Tim and I agreed that we wanted to implement a stamina system to ensure that players would need to plan their combat and could not just mindlessly attack each other while standing still. Tim mostly took care of it, I’ll contribute tomorrow. |
| 09.05.2019 | * Stamina system works great, I cleaned up the scripts a bit and added stamina bars to the UI, now we’re done here * I tried to make players get knocked back from walls, and it works as intended, but our current animation really doesn’t convey the feeling of a clumsy character that falls down, he simply walks backwards a bit :/ Sadly we don’t have enough time to find a new animation or create one ourselves, so this will have to do for now. * To make up for the disappointing bumping animation, I gave all scene objects rigidbodys so they can now be kicked across the level, which is really fun ^^ * Since we have candles with particle systems as fire, I took some time to make sure they would not only fly around when kicked but also go out instead of simply continuing to burn on the ground. Let’s see if anyone notices :D |
| 15.05.2019 | * Nobody noticed the candles ☹ * To make our game feel more responsive as feedback wanted, I started adding sound effects to our characters. Some of the effects are called via script, others should be triggered via animation events to ensure that they are correctly synchronized * I’ll leave most of the animation events to Tim as I don’t want to mess with his stuff * Also, we now have a new wall bump animation – looks great, but I still think it isn’t responsive enough * Same goes for the knockdown animation: Somehow it takes forever for a knocked down character to actually start their animation. Weird. |
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