## THE LAST TACO

Un projet de RAKOTOMALALA Lucas et BONIS Alexis

#### CONCEPT

- Jeux de type platformer 2D sur Unity
- A partir de 10 ans, grande importance 12-25
- Durée moyenne du jeux 1h
- Langage c#
- Unity Collab
- Méthode Agile
- Contrainte durée et organisation

#### SOMMAIRE

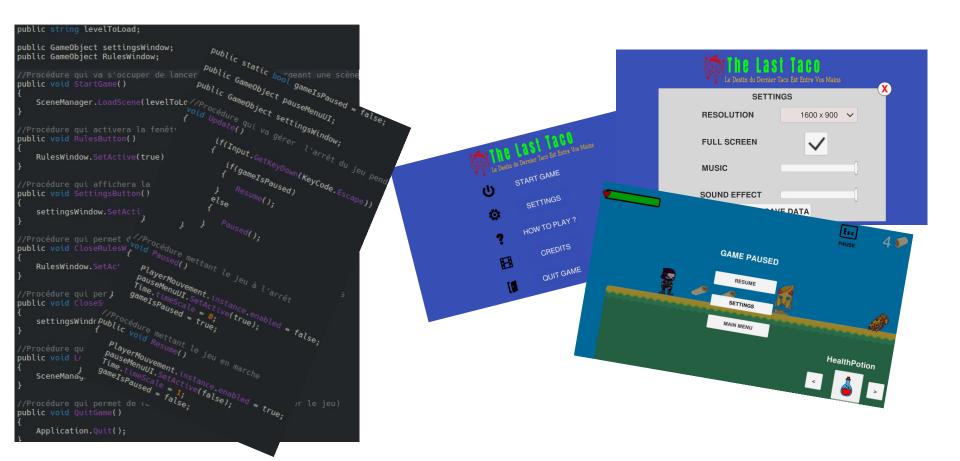
- Déplacements/Animations
- Menu Principal/Menu Pause/Crédits
- Ennemis/Boss
- Design Niveaux
- Vie/Mort du personnage
- PNJs/Dialogues
- Inventaire/Items
- Effets sonores/Musiques
- Gestion Niveaux/Sauvegarde
- Bilan/Difficultés rencontés

### DÉPLACEMENTS/ANIMATIONS

```
vold MovePlayer(float _horizontalMouvement)
                          animator.SetTr!gger("MinjaJump");
rb.AddForce(new Vector2(0f, jumpForce));
isJumping = false;
                      Vector3 targetVelocity = new Vector2(_hor]zontalMouvement,rb.velocity,y);
rb.velocity = Vector3.SmoothDamp(rb.velocity, targetVelocity,ref velocity, .051);
                 animator.SetTrigger("NinjaAttack");
rb.welocity = Vector2.zero;
    public static KeyCode SpacebarKey()
if (Application, isEditor) return KeyCode.0; else return KeyCode.Space;
Void InputButton()
  if(Input, GetKeyDown(KeyCode, LeftShift))
```

```
void Update()
  horizontalMovement = Input.GetAxis("Horizontal")*moveSpeed*Time.deltaTime;
  if (Input.GetKeyDown(SpacebarKey())&& isGrounded)
      isJumping = true;
  Flip(rb.velocity.x);
 float characterVelocity = Mathf.Abs(rb.velocity.x);
 animator.SetFloat("Speed",characterVelocity);
is Grounded = Physics 2D. 0 verlap Circle (ground Check.position, ground Check Radius, collision Layers); \\
```

#### MENU PRINCIPAL/MENU PAUSE/CRÉDITS

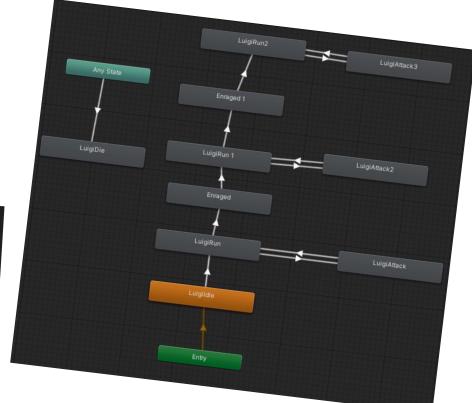


#### ENNEMIS/BOSS



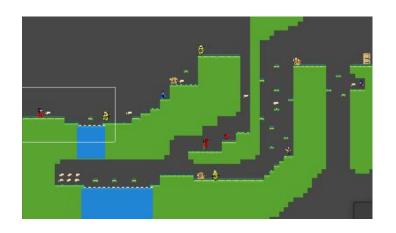
```
Waypoint2
```

```
if ((health == 200 || health ==100) && !isRage)
             GiveDamage += 5;
       anim.gameObject.GetComponent<Animator>().enabled = false;
       PlayerMouvement.instance.animator.gameObject.GetComponent<Animator>().enabled = false;
      PlayerMouvement.instance.rb.bodyType= RigidbodyType2D.Kinematic:
       PlayerMouvement.instance.rb.velocity = Vector3.zero;
      PlayerMouvement.instance.playerCollider.enabled = false;
      DialogueManager.instance.StartDialogue(dialogue,health);
 Vector3 flipped = transform.localScale;
 flipped.z *= -1f;
    transform.localScale = flipped;
    transform.Rotate(0f, 180f, 0f);
     isFlipped = false;
else if (transform.position.x < Ninja.position.x && !isFlipped)
    transform.localScale = flipped;
    transform.Rotate(0f, 180f, 0f);
    isFlipped = true;
```

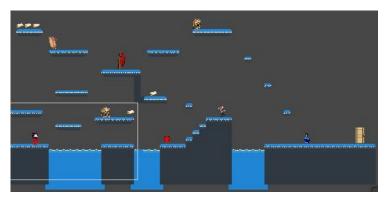


#### DESIGN NIVEAUX









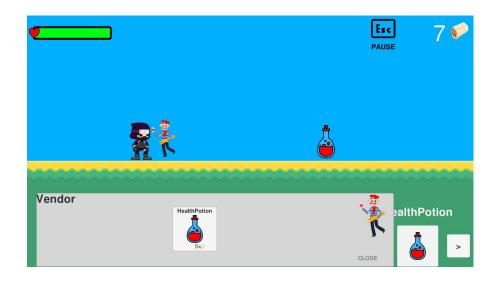
```
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```

```
if ((currentHealth + amout) > maxHealth)
       currentHealth = maxHealth:
       currentHealth += amout;
   healthBar.SetHealth(currentHealth);
                                                                        public void Respawn()
public void TakeDamage(int damage)
   if(!isInvincible)
       AudioManager.instance.PlayClipAt(hitSound, transform.position);
       currentHealth -= damage;
       healthBar.SetHealth(currentHealth);
                                                                             currentHealth = maxHealth:
       if (currentHealth <= 0)</pre>
       isInvincible = true:
public void Die()
   Debug.Log("Le joueur est éliminé");
   PlayerMouvement.instance.enabled = false;
   PlayerMouvement.instance.animator.SetTrigger("Die");
   PlayerMouvement.instance.rb.bodyType= RigidbodyType2D.Kinematic;
   PlayerMouvement.instance.rb.velocity = Vector3.zero:
   PlayerMouvement.instance.playerCollider.enabled = false;
   GameOverManager.instance.OnPlayerDeath():
```

```
public int maxHealth = 100;
           public float invicibilityTimeAfterHit = 1.5f;
           public float invicibilityFlashDelay = 0.3f;
PlayerMouvement.instance.enabled = true;
PlayerMouvement.instance.animator.SetTrigger("Respawn");
PlayerMouvement.instance.rb.bodyType= RigidbodyType2D.Dynamic;
PlayerMouvement.instance.playerCollider.enabled = true;
healthBar.SetHealth(currentHealth);
  private void OnTriggerEnter2D(Collider2D collision)
      if (collision.CompareTag("Player"))
         if (PlayerHealth.instance.currentHealth != PlayerHealth.instance.maxHealth)
             AudioManager.instance.PlayClipAt(pickupSound, transform.position);
             PlayerHealth.instance.HealPlayer(healdPoints);
             Destroy(gameObject);
```

#### PNJS/DIALOGUES

Création d'une classe dialogue et une autre pour les gérer Création d'une classe gérant le marchand et l'achat d'items

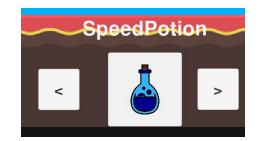




#### INVENTAIRE/ITEMS

```
public void BuyItem()
{
    Inventory inventory = Inventory.instance;
    if (Inventory.instance.tacoCount >= item.price)
    inventory.content.Add(item);
    inventory.UpdateInventoryUI();
    inventory.tacoCount -= item.price;
}
```



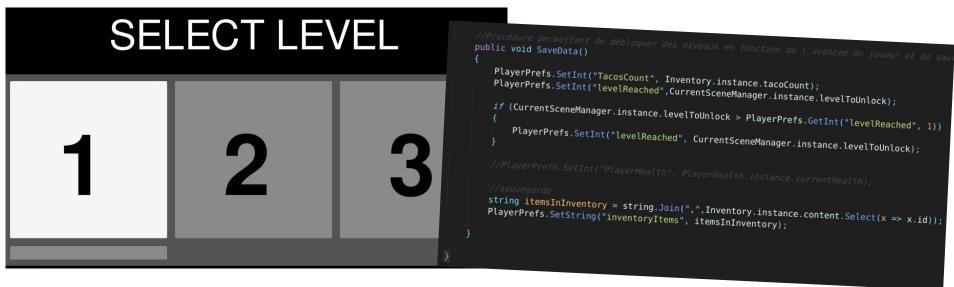


```
void UpdateItemsTosell(Item[] items)
    for (int i= 0; i < sellButtonParents.childCount;i++)</pre>
        Destroy(sellButtonParents.GetChild(i).gameObject);
    for (int i = 0; i < items.Length; i++)</pre>
        GameObject button = Instantiate(sellButtonPrefab, sellButtonParents);
        SellButtonItem buttonScript = button.GetComponent<SellButtonItem>();
        buttonScript.itemName.text = items[i].name;
        buttonScript.itemImage.sprite = items[i].image;
        buttonScript.itemPrice.text = items[i].price.ToString();
        buttonScript.item = items[i];
        button.GetComponent<Button>().onClick.AddListener(delegate{ buttonScript.BuyItem(); });
```

#### EFFETS SONORES/MUSIQUES

```
audioSource.clip = playlist[0];
   audioSource.Play();
   if (!audioSource.isPlaying)
                                                              AudioManager.instance.playclipAt(hitSound, transform.position);
void PlayNextSong()
   musicIndex = (musicIndex + 1) % playlist.Length;
   audioSource.clip = playlist[musicIndex];
   audioSource.Play();
public AudioSource PlayClipAt(AudioClip clip, Vector3 pos)
   GameObject tempGO = new GameObject("TempAudio");
   tempGO.transform.position = pos;
   AudioSource audioSource = tempGO.AddComponent<AudioSource>();
   audioSource.clip = clip;
   audioSource.outputAudioMixerGroup = soundEffectMixer;
   audioSource.Play();
   Destroy(tempGO, clip.length);
   return audioSource;
```

#### GESTION DE NIVEAUX/SAUVEGARDE



# BILAN ET DIFFICULTÉS RENCONTRÉES

MERCI POUR VOTRE ATTENTION