




# Game Design Process



# Iterative Game Design

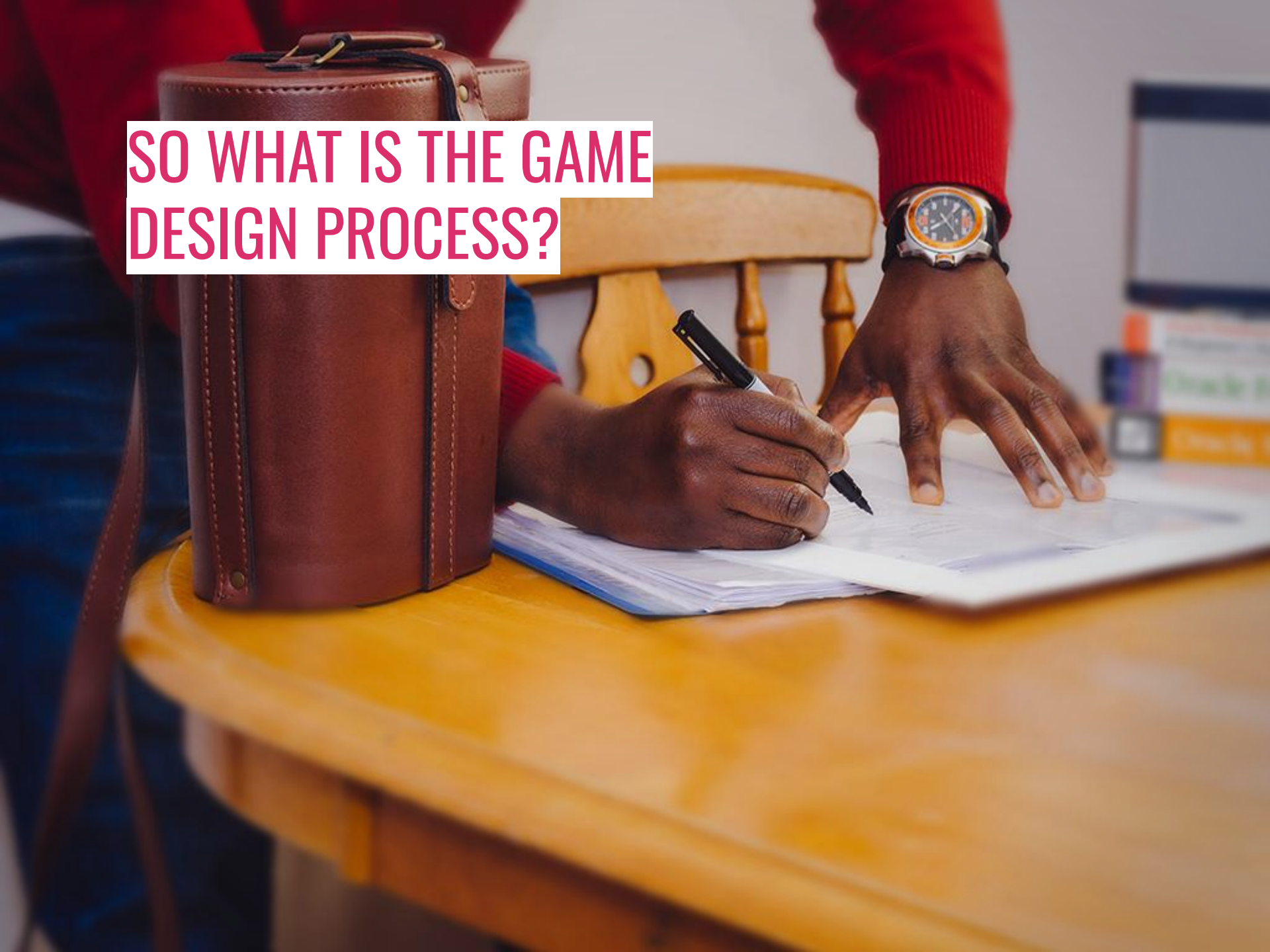
is the process by which a video game is repeatedly proposed, prototyped, play tested and re-evaluated prior to working product release.



Iterative game design operates on  
the following principle:

It is unrealistic to create an ideal  
product on the first try.

# SO WHAT IS THE GAME DESIGN PROCESS?





The game design process can be divided into 3 stages (similar to filmmaking) - pre-production, production, post production.



**Pre-production will take up around  
20% of the game design process.**

# Pre-production

- ◇ Concept Development
- ◇ Storyboarding
- ◇ Research and Development
- ◇ Game Development Document
- ◇ Mapping
- ◇ Prototyping



# Pre-production

It involves planning, mapping, scheduling, research and gathering of resources for the production process ahead.




# Concept Development

Concept of the game is refined and expanded to articulate key elements such as the scope of the world, the mechanics of gameplay, the mapping of levels, character bios, complete storyline, etc.





Brainstorming sessions are an important part of fleshing out the main idea of the game.



The storyline is fleshed out, with plot points, characters, story arcs, action sequences, climactic scenes, etc.

# Storyboarding

Each scene is sketched out showing character action, shot selection, the sequence of action and cinematic direction.



The script is pre-visualized via a storyboard.



# Research and Development

is conducted into three areas.





# Research and Development

## Demographics

who is the target audience, how to design to their playing style, how to market to the intended audience

## Resources

software/engine to be used, staffing requirements are established, budgets are fixed

## Execution


what real-life resources will assist in creating the product, will motion capture be required to assist in animation, etc.



# Game Development Document

is the blueprint for the production process.





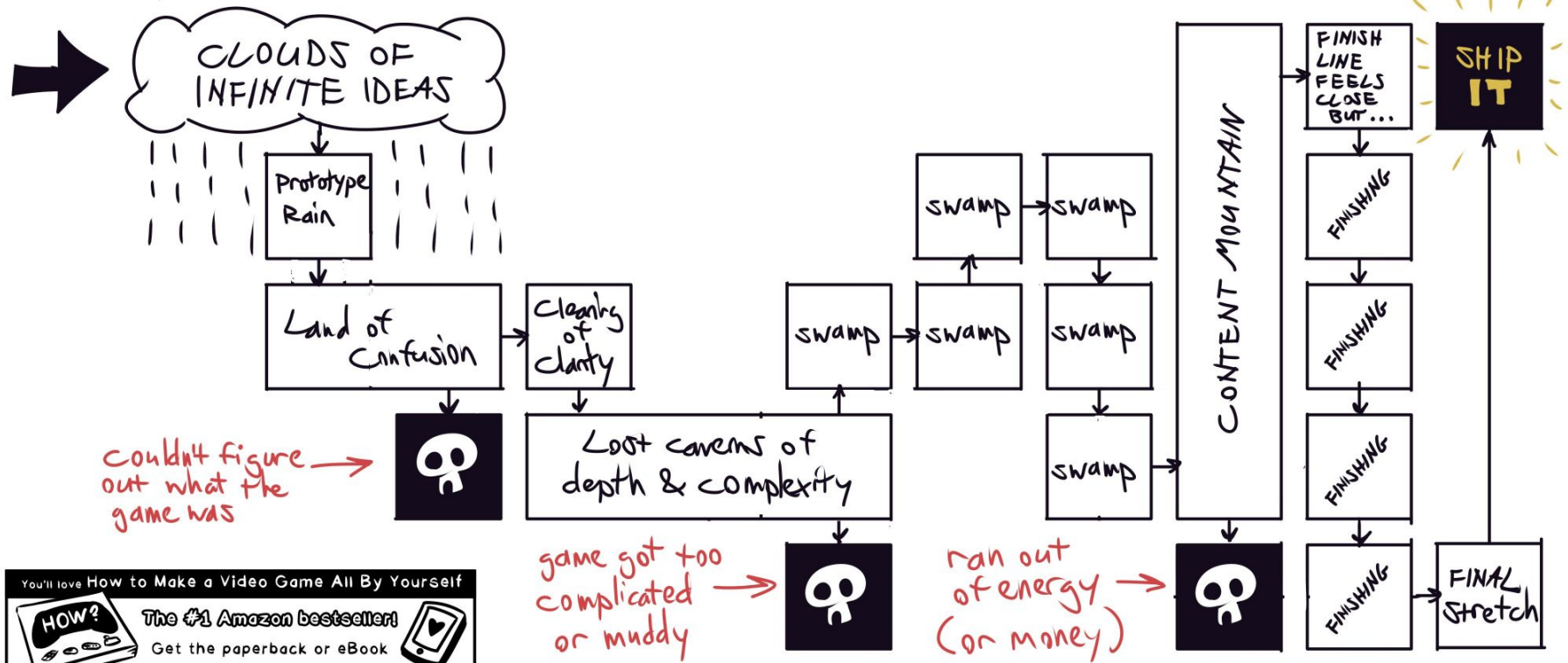
This is the plan from which all departments will work, outlining the key elements - what is the game and what is the point of it, what are the programming building blocks, what are the stages of the design process, etc.

# Mapping

The levels are mapped out across the course of the game.



# GAME DEVELOPMENT MAP

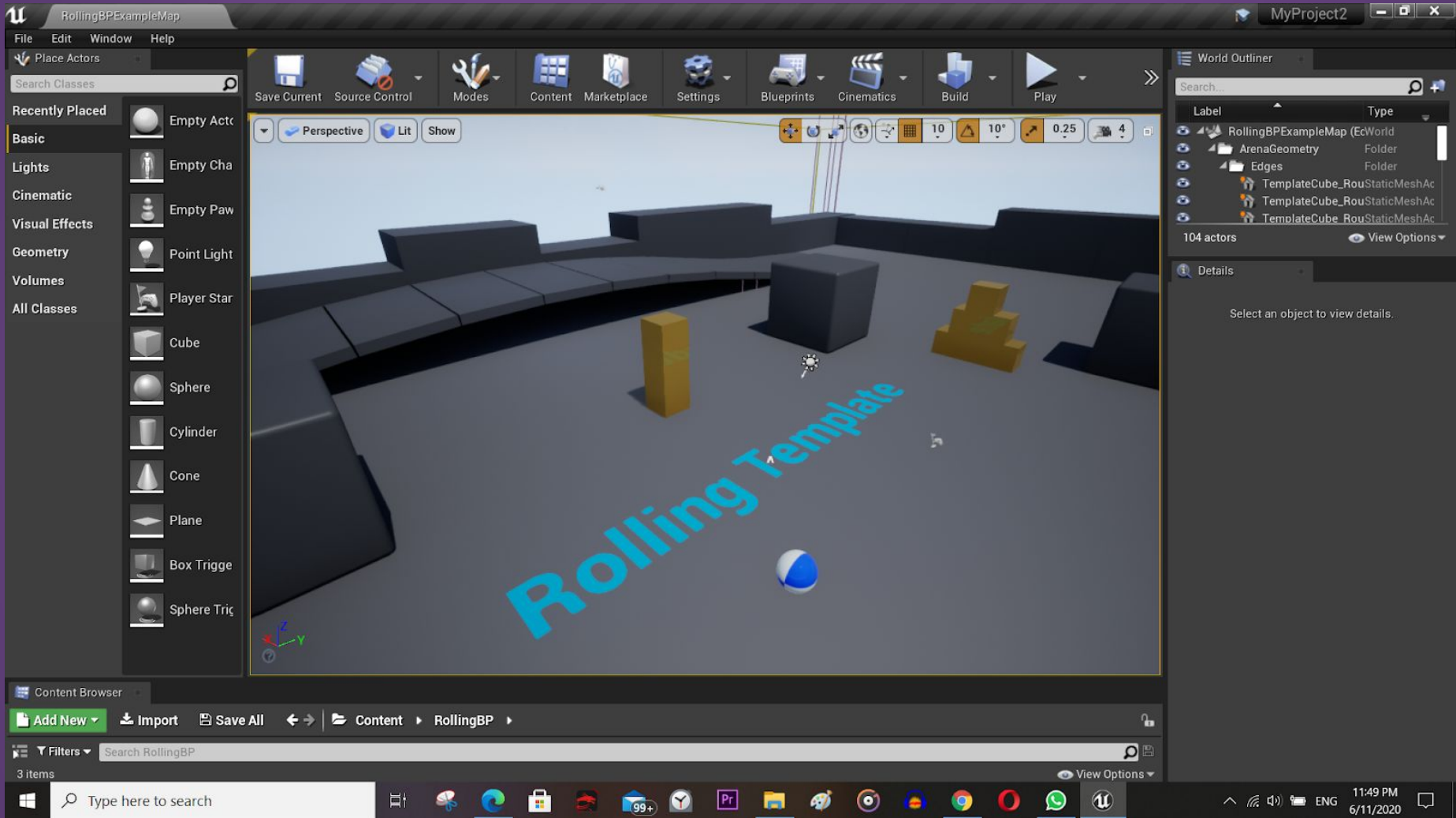




This is macro mapping, defining where the game is going, how the player is led through it, etc.

# Prototyping

One or more rudimentary prototypes will be produced to see what works and what doesn't, if there are any bugs and if the concept has legs.





The testers give feedback on the gameplay  
to improve the final product.





# Production

It is when the bulk of the work is done. It's all systems go! Animation, 3D modeling, programming teams all begin working in tandem.



Production will take up about 60% of the design process.

# Production

- ◇ Modeling
- ◇ Level Action
- ◇ Animation
- ◇ Texturing
- ◇ Lighting
- ◇ Artificial Intelligence
- ◇ Cinematics
- ◇ HUDs and Menus

# Modeling

All the elements of the game  
are mapped.





LIFE'S BLANKET  
FOREST  
Provides Stealth at Night.

River captured a settlement.  
Our King creeps closer to death.  
All heroes have received dawn income from Settlements.  
*This message has been sent to the King.*




This is a complex and time-consuming process.



## Level Action

is blocked out on how the action on each level plays out.





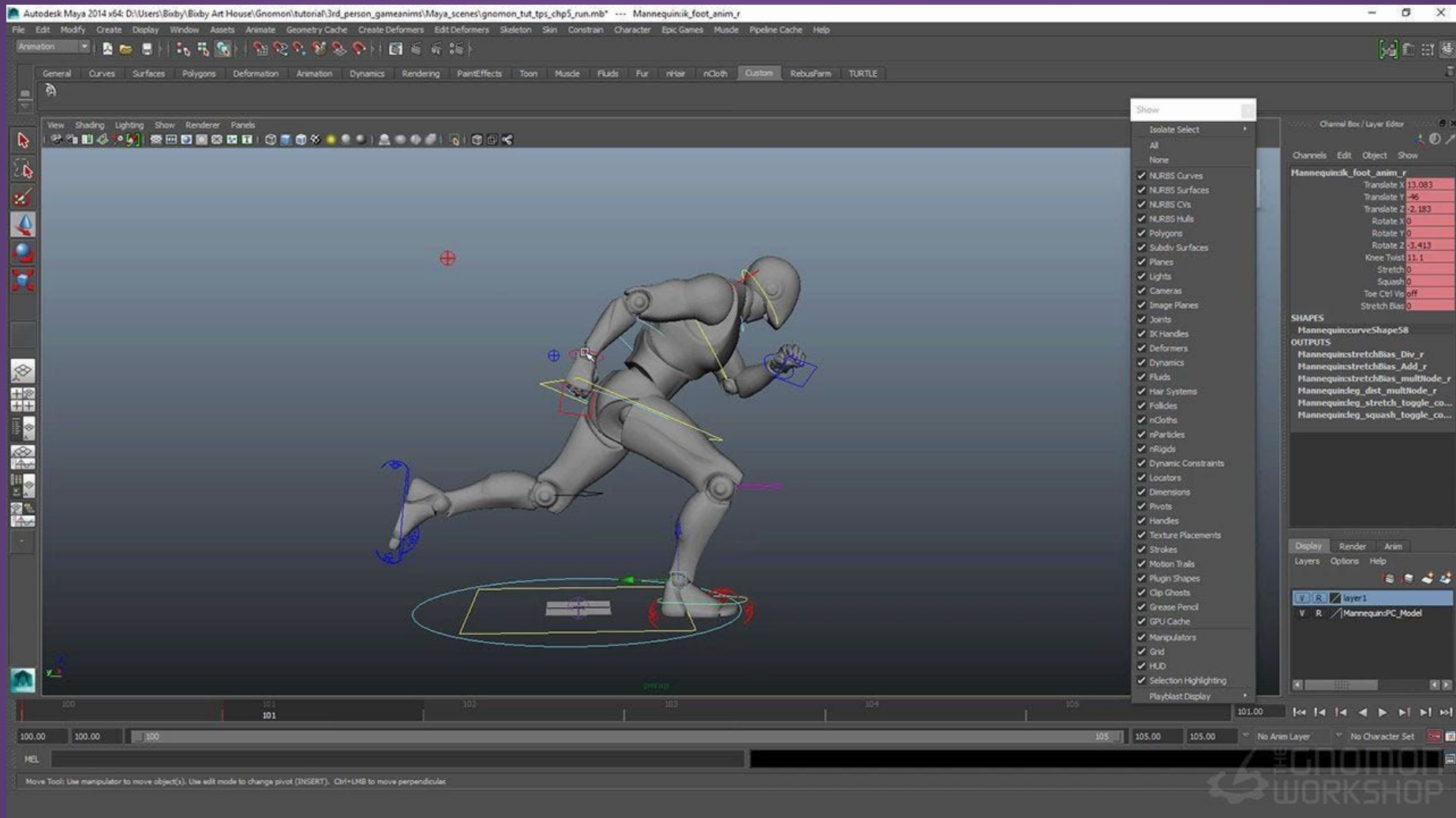
Micro detailing of the action sequences and objectives of each level, how the player is guided towards the next level.



# Animation

All elements are then animated through a sequence of movements or through a scene.

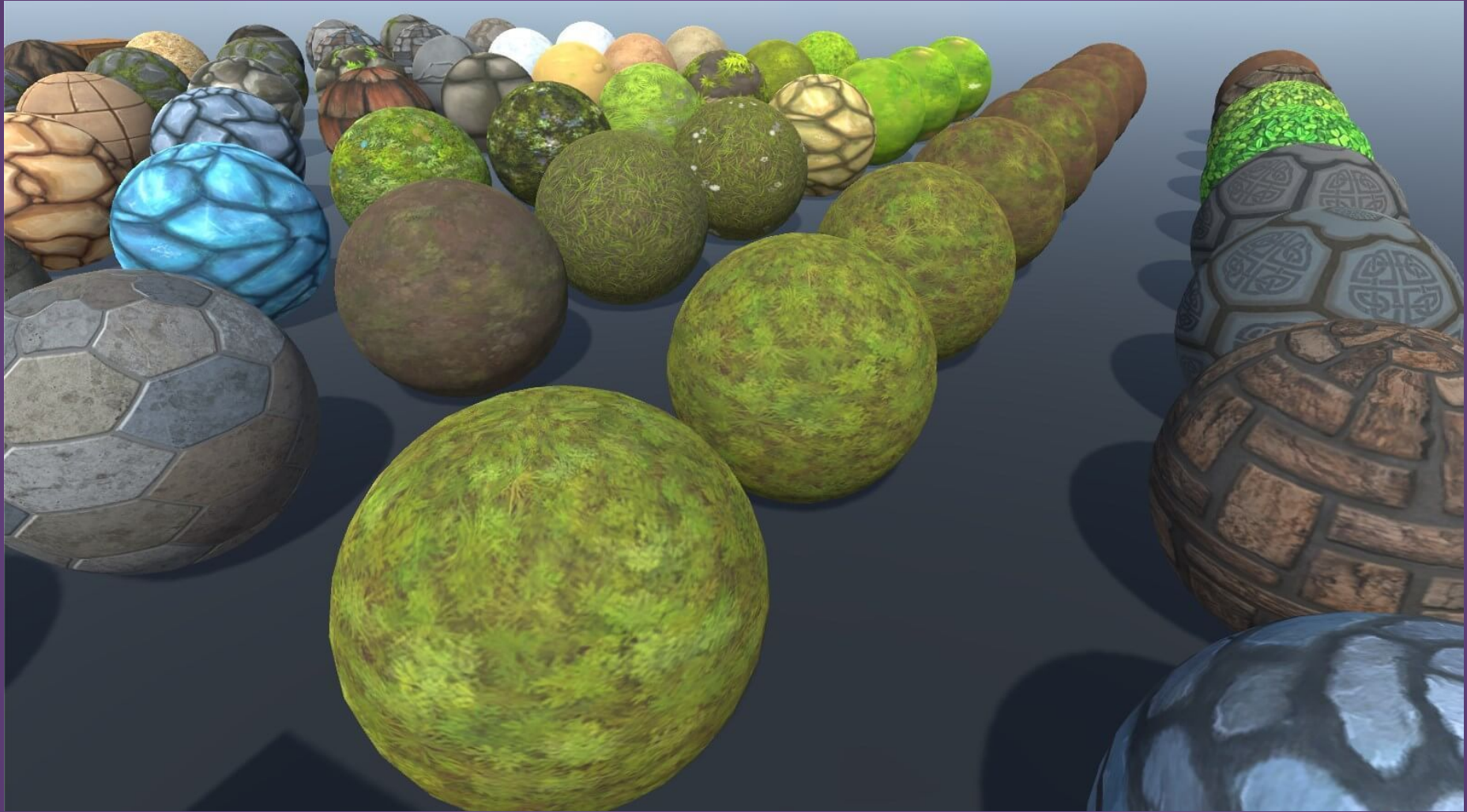




# Texturing

Texturing is added to all the static meshes on the 3D models.





# Lighting

Lighting is an important element of design, it adds depth to the feel of the game, creating the 3D effect.





< Persp



It is used to create atmosphere, to build tension and replicate the real world.



# Interactivity

Elements of function and interactivity are added.





# Artificial Intelligence

AI is used to react to the actions or decisions the player makes.



# Cinematics

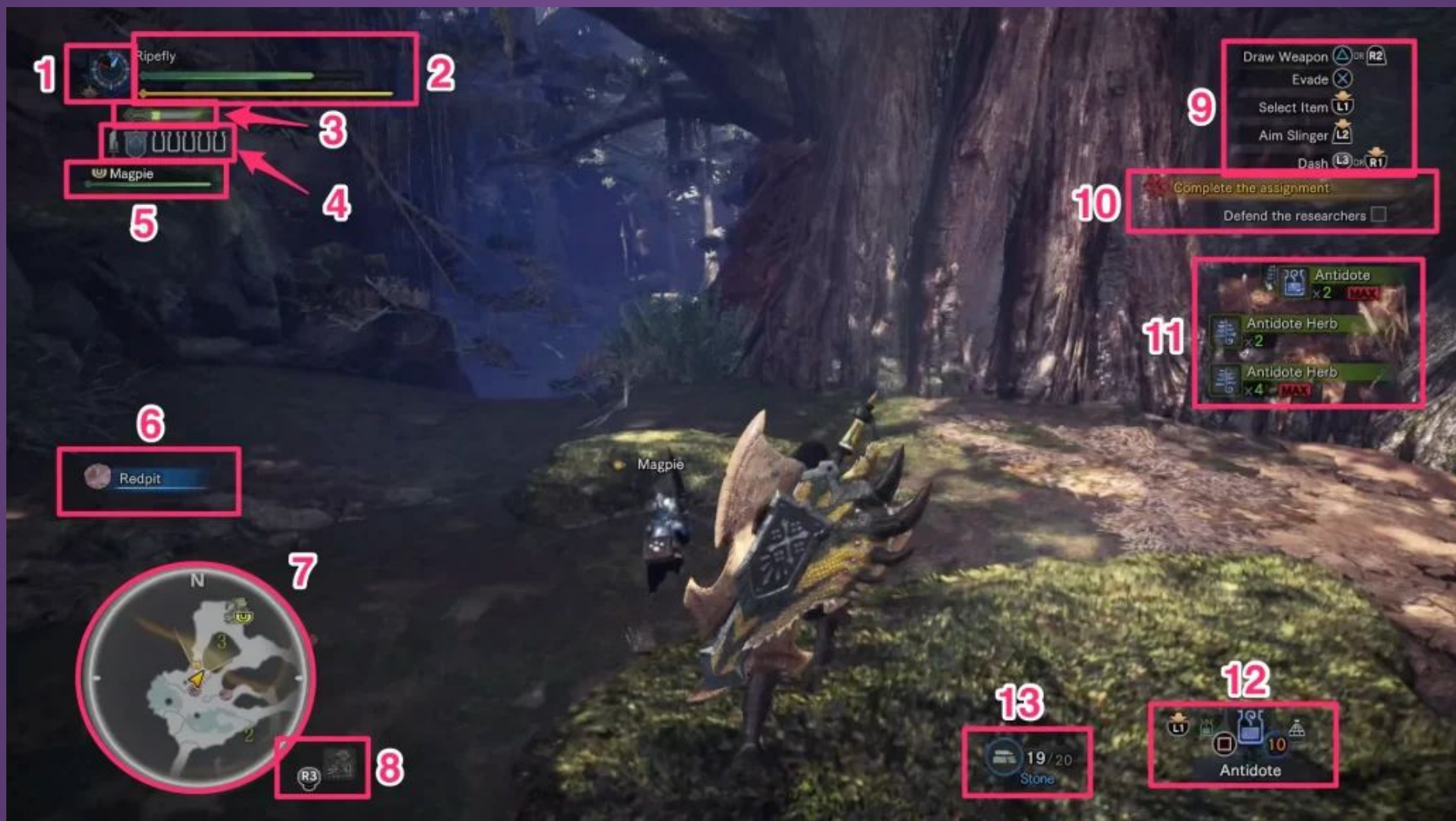
They are usually an interlude from the game where the player is given extra information to assist them in their progress.




# HUDs and Menus

HUDs can provide information such as points/rewards status, timings, position on the map, etc.







The menus instruct the player on the objectives, available elements, in-game purchase info, etc.



# Post Production

Then comes the final stage of the game.

# Post Production

- ◇ Sound Design and Visual Effects
- ◇ QA
- ◇ Refining
- ◇ Packaging and Marketing

# Sound Design and Visual Effects

Sound design brings together all the dialogue, score, foley and sound effects required for the game's soundscape.







Visual effects, or special effects, are added to the sequences to enhance the visuals.



Quality assurance testers are brought in again to test the rough draft of the final game.



## Refining

The feedback from the testers is applied.



# Packaging and Marketing

Artwork from the game is used for creating packaging as well as marketing materials such as posters, online advertising, trailers, etc.



# The Game Design Process

is a complex one  
requiring many  
iterations of the  
overall aesthetic of  
the game.



To be part of a game design team will test your abilities and expand your skills. But it is an exceptionally rewarding journey!

