Player Interface

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Principles

- consistency
- feedback
- player in control
- limits steps to action
- able to reverse action
- minimize physical stress
- easy on short-term memory
- cluster related items
- provide shortcuts for experienced players
- Heads-Up Display (HUD)

HUD from an FA18 Fighter Jet



Videogame HUD



Player Needs to Know = Feedback

- where am !?
- what am I doing now?
- what challenges am I facing?
- did my action succeed or fail?
- do I have what I need?
- am I in danger of losing?
- am I making progress?
- what should I do next?
- how did I do?

Player Wants to Do = Inputs & Controls

- move
- look around
- interact with NPC's
- pick up & put down objects
- manipulate fixed objects
- construct & demolish objects
- conduct negotiations, financial transactions, set parameters
- give orders to units/NPC's
- customize entities
- pause & save game state & end
- login
- set game options

Common GUI components

Action Bar

 A UI element consisting of a box or strip of icons (or menu items) corresponding to actions which can be performed.

Attract Mode

Animation that plays when no one is actively playing the game.
 Typically a splash screen with a prominent Start button.

Gauges

 Vehicle speed, temperature, battery power, fuel remaining

Hot Bar

 A row of user-configurable buttons, usually located near the bottom or top of the screen.

Idle Animation

 The animation that is displayed when a character, especially an avatar, is just standing around.

Meters

- Life or Health meter
- Stats, such as skill or experience points
- Resources, such as Ammo or Power meters
- Score
- Usually shown together in a Status Line

Mini map

 Indicates player position in the world

Common GUI components

Portraits

 Show the avatar and other characters in the game. Used a lot in MMO games.

Possessions

- A display window of the tokens the player has collected
- Weapons the player can use

Radar

 A mini map that shows the location of enemies that are not in the current world view.

Ring Menu

 An interface element where a list of possible actions are displayed in a ring or circle, often around a character.

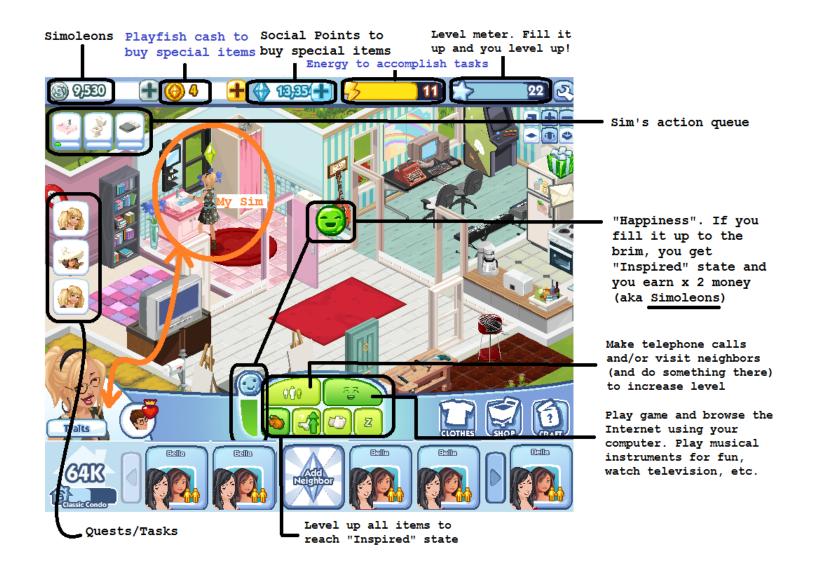
Leader Board

- A display of high scores of players of the game.
- Scrolling Text
 - Used to display dialog
- Shell screens and menus
 - Save/Pause game
 - A/V controls
 - Help screens
 - Alerts
 - Login
 - Credits

Vanity Pane

Small window displaying the game's logo

Anatomy of a GUI



Star Wars



World of Warcraft



Legend of Grimrock

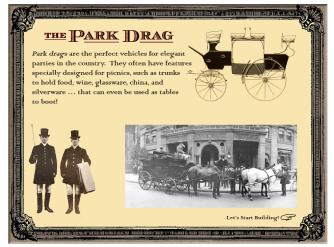


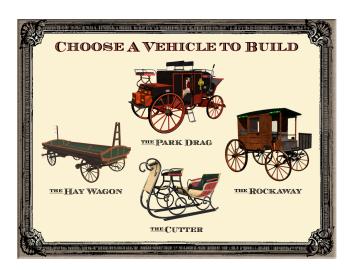
Heavy Rain



Thematic Design: Long Island Museum Exhibit









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Types of UI Representations

Is the

representation

existing in the

fictional game

world?

Diegetic

 Interface that is included in the game world -- i.e., it can be seen and heard by the game characters.

Non-diegetic

 Interface that is rendered outside the game world, only visible and audible to the players in the real world.

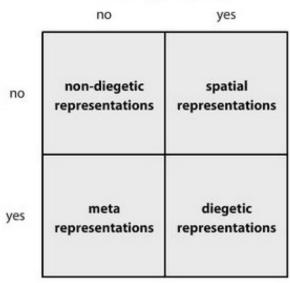
Spatial

 UI elements presented in the game's 3D space with or without being an entity of the actual game world (diegetic or nondiegetic).

Meta

 Representations can exist in the game world, but aren't necessarily visualized spatially for the player; these are meta representations. Example is effects rendered on the screen, such as blood spatter on the camera to indicate damage.

Is the representation visualized in the 3D game space?

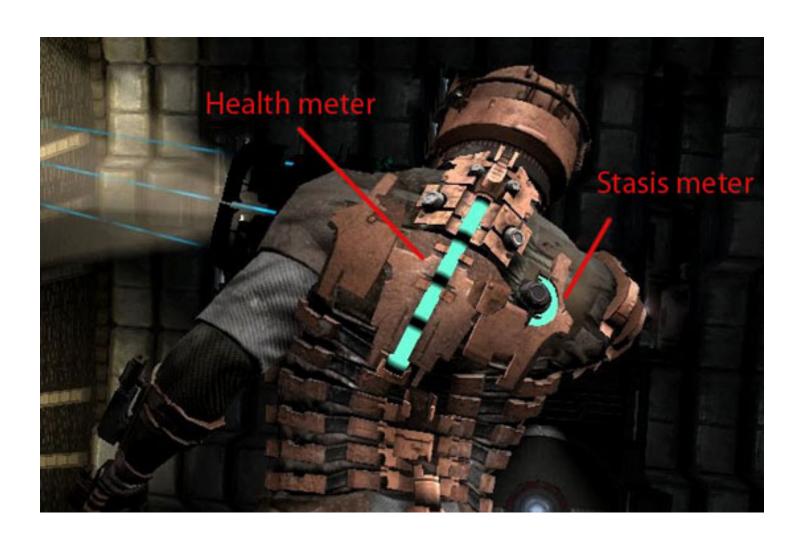


Fagerholt, Lorentzon (2009) "Beyond the HUD – User Interfaces for Increased Player Immersion in FPS Games"

Diegetic Interface from Far Cry 2



Diegetic Interface from Dead Space



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