## **GAME DESIGN DOCUMENT (GDD) TEMPLATE**

**Title Page**

The title page includes general information about the game:

* Game Name :
* Game Logo :
* Game Catch Phrase :

**Sign-Off**

The sign-off section lists all the people involved (by rank and role) and confirms that each member of the team has read through the document and agrees with the current plan.

GAME CONCEPT SIGN-OFF

Lead Artist:

Lead Designer:

Lead Programmer:

Lead Producer:

**Introduction**

The introduction should include a brief sentence or two about the game, its genre, player type, technical form, references, and theme. Everyone that reads this should be able to understand what the basic idea of this game is.

A new purpose for the introduction can also be the reason for the concept and history of the game the concept is based upon. Here is a short list of subjects to address in the introduction:

• Genre • Player Type

• Game Play • Technical Form

• History • Theme

• Design Intentions (original or cloned)

**Game Description**

**Genre:**

• Describe the Genre

Example:

* Role-play
* Adventure
* Strategy
* Puzzle
* Simulator
* Construction & Management

**Game Elements:**

• Game elements are the basic activities the player will be doing for fun during the game.

Example:

* Shooting
* Collecting
* Chase
* Combat
* Dodging

**Game Content:**

Example:

* Horror
* Thriller
* Humor
* Drama

**Theme:**

Example:

* Western
* Sci-Fi
* Fantasy

**Style:**

Example:

* Real
* Old School
* Manga

**Player:**

The Number of players that can play the game at once

**Player Immersion:** • This is an attempt to understand what kind of enjoyment the player will receive from the game.

Example:

* Tactical
* Strategy
* Narrative
* Physical
* Emotional
* Mental

**Reference:**

• References can come from anywhere.

• The idea is to describe your game’s story, play, and style with references.

**Game Technical**

**Technical Form:** • Basically there is 2D graphics (Flat) and 3D graphics (Form)

**View:** • Camera view the player will experience the game from

**Platform:** • iOS, Android, Mac, PC

**Language:** • C#, C++, Ruby, Java

**Device:** • PC, Mobile, Console

**Game Sales**

**Consumer Group:**

• This could involve conducting a research or focus group with actual consumers to gather or validate market acceptance data

**Payment:**

• This could involve discussions on monetizing the game and receiving payments from customers

**Estimated Price:**

• This could involve market sizing and market pricing strategies for the game product

**Game Atmosphere**

In the game atmosphere section, it is best to have a mood board or a clear description of the game’s style. This is a good place to start interacting with a graphic designer.

**Game Play**

The gameplay section is utilized to create a descriptive paragraph about how the game is played.

The idea is that you want the person to imagine they are actually playing the game. Try not to use generic (i.e. broad, non-descriptive) names when writing about the gameplay.

• Opening the game application • Game Options

• Story Synopsis • Modes

• Game Elements • Game Levels

• Player’s Controls • Winning

• Losing • End

• Why is all this fun?

Example:

Few readers want to hear statements such as: “*enemy\_1 will have more hit points than*

*enemy\_2*.” Instead, it is better to make statements such as: “*the Lazarus Fighter has more armor than the Apollo Fighter*.”

**Key Features**

Key features are a list of game elements that are attractive to the player. It may be a good idea to research the key points below or consult with a professional marketer.

• Number of Levels

• Number of Enemies/ Characters (Example: 12 characters or amount of enemies, end bosses)

• Time of Game Play (Example: 2 hours of fun) • Replayability

• Audio Specifications • Graphic Specifications

• Device Compatibility • Number of Players

• Online Activities (high scores, etc.) • Number/Type Modes

• Marketing Ideas • Consumer Group

• Unique Features • Merchandising

**Player Elements**

The player elements section lists all the elements that are directly related to the player or serve to benefit the player.

Devise two sets of names for player elements. One set is a generic name (or code) and the other is its game name. Describe the terminology that you use to describe the player’s properties.

This is a good place to interact with a graphic designer to ensure the game graphics match the game names. Graphics that will be seen during gameplay should be exhibited here.

Multi-player issues should also be mentioned here.

• Default (Status): What are the default settings for the player at the beginning of the game or level?

• Actions: What can the player do?

• Information (Status): What information about the game is available for the player?

• Default Properties: How does the player begin the game?

• Winning: How can the player win?

• Loosing: How does the player lose?

**Player Properties**

Make a list within the player properties section that defines the properties for each player. Player properties can be affected by the player’s action or interaction with other game elements. Define the properties and how they affect the player’s current game.

A suggested list of player definitions may include:

• Health

• Weapons

• Actions

• Etc.

Each property should mention feedback as a result of the property changing!

**Player Rewards (Power-ups & Pick-ups)**

Within the player rewards section, make a list of all objects that affect the player in a positive way (i.e. health replenished).

Define these objects by describing what effect they cause and how the player can use the object.

**User Interface (UI)**

This is where a description of the user’s control of the game can be placed. It is also recommended to think about which buttons on a device would be best suited for the game. Consider what the worst layout is, then ask yourself if your UI is it still playable?

A visual representation can be added, where we relate the physical controls to the actions in the game. When designing the UI, it may be valuable to research quality control and user interface (UI) design information.

**Heads up Display (HUD)**

The HUD section is where a description of any graphics that will represent information during gameplay should be described.

A visual representation (mock-up screenshot) here would be useful.

This is another good place to seek the advice or collaboration of a graphic designer.

**Player View**

A screenshot is very necessary in the player view section.

It is also beneficial to include a definition of how the camera moves for the player.

Finally, a (mock-up) overview of the level relative to the screen size will help create a perspective of the size of a level compared to what is actually seen.

**Antagonistic Elements**

This is where a list of antagonistic (i.e. enemies, opponent) objects should be listed with graphics and written description.

Describe the terminology that you used to describe antagonistic properties.

Devise two sets of names for player elements. One set is a generic name (or code) and the other is its game name.

This is another good place to collaborate with a graphic designer to ensure the game graphics match the game titles, names, and descriptors.

**Antagonistic Properties**

This is a list of properties that antagonistic elements have in common.

**Antagonistic List**

This is where a list of all the antagonistic elements goes.

**Artificial Intelligence (AI)**

This is where visuals and written description(s) of the antagonistic element’s behaviors. These should be labeled in such a way that they can be used in level design without having to describe them again.

Devise generic names for repetitive behaviors.

This is how an AI action could be deconstructed:

• Normal State: What is the object doing if it has not come in contact with the player?

• Detection State: What does it take for this object to detect the player?

• Reaction State: What does the object do as an action after passing the reaction state?

• End State: What happens to the object after the player has reacted correctly or incorrectly to the object?

**Global Game Elements**

In this section, it is important to describe the boundaries, neutral objects, camera views, and scale of the world.

Neutral game world objects can be things like a static background, objects that do not interact with the player, or antagonistic elements.

**The Story**

This is where the story can be described in detail. A storyboard can be used to tie in graphics to the text. This can later be used for *splash screen* concepts.

**Concept Art**

*Sketches* that are used for the concept can go into this section as visual reference. In the case of a brand, certain creative restrictions should be noted here. This is a good place to collaborate with a graphic designer to ensure game graphics match game names.

**Audio & Sound F/X**

This is where game audio and Sound F/X should be listed, first with generic names and then described. This section also includes deciding if you will use a device’s vibration ring mode.

**Game Architecture**

The game architecture section is best produced using a flow chart to represent the overall game.

Be sure to identify (i.e. name, number) each screen.

• Title Screen

• Option Screens

• Game Modes

• End Screens

**Technical Document**

The information concerning the technical aspects of the game should be placed here. The technical document is best achieved with consensus from the people responsible for the Visual, Programming, and Audio aspects. This part of the document is meant to be modular. This means that it is possible to have several Game Technical documents attached to the Game Design Document (GDD).

**System Requirements**

This is a list of system requirements that a device will have to meet to run the game.

This also represents the restrictions that may apply to the end product.

**Visual Content**

A list of technical requirements from those in concerned with the visual aspects of the game. All objects should be listed with their generic names.

General

* File Size Restrictions
* File Format Type
* File Quality Type
* Visual Scale

Player Elements

* Type of States (Default, Damage, Destroyed, etc.)
* Amount Animation Frames

Heads Up Display (HUD)

* Type Icons
* States
* Font Type

Antagonistic Elements

* Type of States (Default, Damage, Destroyed, etc.)
* Amount Animation Frames

Global Elements

* Background/Texture/Tiles
* Font Type

**Audio Content**

This is the section for organizing the audio content. It is very important to communicate with the audio designer before and while the audio content is being developed.

General

* File Size Restrictions
* File Format Type
* File Quality Type

Player Elements

* Type of Sound f/x
* Device Vibration

Antagonistic Elements

* Type of Sound f/x
* Device Vibration

Global Elements

* Ambient Music

Splash Screens

* Ambient Music

Menus

* Type of Sound f/x

**Programming Content**

The programming content section should help permit good collaboration with the programmer. The objective of this section (and task) is to try to organize and modulate as much as possible.

General

* Requirements
* File Size Restrictions
* File Format Type
* Specify Coding Conventions
* Language/Device Restrictions
* Screen Type (Small, Medium, Large)

Player Elements

* Type of Event

Antagonistic Elements

* Type Event

Global Elements

* Type of Event

Splash Screens

* Type of Event

Menus

* Type of Event
* Type of Options

**Code Structure**

This is where an overview of how objects/functions/data interact, a list of what specified functions/routines do, and a list of what order modules will be written.

**Resources**

The resources section lists applications and equipment that are acceptable for use in the development of this game. This begins to satisfy a legal challenge that developers must begin to be aware of.