Game Design Document

YAC

YET ANOTHER COMMANDO

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Conteúdo

[Changelog 5](#_Toc458114638)

[Concept 5](#_Toc458114639)

[Overview 5](#_Toc458114640)

[Motivation 5](#_Toc458114641)

[Premise 5](#_Toc458114642)

[Objective 5](#_Toc458114643)

[Structure 5](#_Toc458114644)

[Unique traits 5](#_Toc458114645)

[Platform 5](#_Toc458114646)

[Genre 5](#_Toc458114647)

[Rating 5](#_Toc458114648)

[Target audience 5](#_Toc458114649)

[Competitive analysis 5](#_Toc458114650)

[Financial analysis 5](#_Toc458114651)

[Technology 5](#_Toc458114652)

[Team 5](#_Toc458114653)

[Producer 5](#_Toc458114654)

[Creative Director 5](#_Toc458114655)

[Art Director 5](#_Toc458114656)

[Technical Director 5](#_Toc458114657)

[Lead Developer 5](#_Toc458114658)

[Lead Designer 5](#_Toc458114659)

[Features 6](#_Toc458114660)

[General 6](#_Toc458114661)

[Game play 6](#_Toc458114662)

[Player movement 6](#_Toc458114663)

[Player actions 6](#_Toc458114664)

[Combat 6](#_Toc458114665)

[Weapons 6](#_Toc458114666)

[Items 6](#_Toc458114667)

[Camera 6](#_Toc458114668)

[User interface 6](#_Toc458114669)

[Multiplayer 6](#_Toc458114670)

[Game world 7](#_Toc458114671)

[Elements 7](#_Toc458114672)

[Overview 7](#_Toc458114673)

[Key locations 7](#_Toc458114674)

[Travel 7](#_Toc458114675)

[Scale 7](#_Toc458114676)

[Objects 7](#_Toc458114677)

[Time 7](#_Toc458114678)

[Game engine 7](#_Toc458114679)

[Render 7](#_Toc458114680)

[Textures 7](#_Toc458114681)

[Lights 7](#_Toc458114682)

[Shadows 7](#_Toc458114683)

[Audio 7](#_Toc458114684)

[Terrain 7](#_Toc458114685)

[Water 7](#_Toc458114686)

[Particles 7](#_Toc458114687)

[Physics 7](#_Toc458114688)

[Input controls 7](#_Toc458114689)

[Game characters 7](#_Toc458114690)

[Player characters 7](#_Toc458114691)

[Enemies 7](#_Toc458114692)

[NPCs 7](#_Toc458114693)

[Music and sound effects 7](#_Toc458114694)

[Visual style 8](#_Toc458114695)

[Level design 8](#_Toc458114696)

[Skills 8](#_Toc458114697)

[Obstacles 8](#_Toc458114698)

[Enemies 8](#_Toc458114699)

[Non-enemies 8](#_Toc458114700)

[Level progression 8](#_Toc458114701)

[Reference titles 8](#_Toc458114702)

[Appendix A: User Interface Layouts 8](#_Toc458114703)

[Appendix B: Character Animation 8](#_Toc458114704)

[Appendix C: Story 8](#_Toc458114705)

# Changelog

**Version 1.0**

* Initial concept, design and description of basic game mechanics and reference titles

# Concept

## Overview

Fast paced 3D vertical scroller shoot ‘em up resembling old NES games such as *Commando* and *Ikari Warriors*. With very simple controls suitable for mobile platforms, the game sets a pace for play, and the player must react quickly to the changing environment.

## Premise

A highly trained military asset is the last resort in a large scale conflict. In order to accomplish his mission, he must pass through enemy territory destroying as many opposing units as possible.

## Objective

The main objective of the game is to keep your character alive by destroying as many enemy units as possible until you find the exit point in each level. The exit point can be a door, a button/switch, a checkpoint or an element to be destroyed. Some levels may have secondary objectives such as to unlock passages, find secrets, escort prisoners, kill certain foes or free friendly units.

## Structure

Game is divided in chapters with each chapter later subdivided in levels. Each level can be played independently although they are expected to give the player a sense of progressively increasing difficulty. No inventory system or complicated character customizations.

## Unique traits

A rule of thumb is any new game concept should have at least three unique selling points (USPs). These are elements that customers would see on the back of the box to entice them to buy the game (marketing bulletpoints).

## Platform

Mobile Devices: iOS 8+, Android 5.0+ (API21), Windows Phone 8.1

Minimum operating system versions are imposed by the game engine (Unity 5.x)

## Genre

Run and gun shooter: a shoot 'em up in which the protagonist fights on foot, sometimes with the ability to jump. Run and gun games may use side scrolling, vertical scrolling or isometric viewpoints and may feature multidirectional movement.

## Rating

Describe the ESRB rating you are aiming for with your game. Try to include the content descriptors that you expect to receive. Ratings and content descriptors can be found here: http://www.esrb.org/ratings/ratings\_guide.jsp

## Target audience

Every game needs to have a target customer in mind. The most basic demographic include age, gender. Ideally, you want to cover psychographics and positioning here.

## Competitive analysis

Describe the games that will likely attract the same target customers as the proposed game. It should include a list of relative strengths for each competitor and a side-by-side comparison across all competitors and the proposed game.

## Financial analysis

What is the argument for making the game? The components of the analysis are budget, projected sales, and return on investment.

## Technology

* Development:
  + Unity 5.x
  + Android SDK
  + iOS SDK
  + Windows Phone SDK
* Distribution:
  + Apple Store
  + Google Play
  + Windows Mobile Store

# Team

## Producers

Nicolas Lebedenco  
Thiago Borda

## Developers

Nicolas Lebedenco  
Thiago Borda

## Game **Designers**

Nicolas Lebedenco  
Thiago Borda

## Contributors

### Visual Assets

Add names of companies/individuals that contributed with assets used in the game

### Audio Assets

Add names of companies/individuals that contributed with assets used in the game

# Features

## General

What the player can do in general terms.

1. Create Profile
2. List Missions
3. Play Mission
4. Automatically save progress [Can a mission be saved in the middle of it or is progress registered only by accomplishing a mission?]
5. View score/stats after a Mission is accomplished
6. Automatically Save best score/stats for each accomplished Mission
7. View best scores/stats for each mission
8. View/Modify Game Settings [while in game?]
   1. Auto Shoot [on|off]:
9. Abandon/Restart Mission

## Game play

Describe the basic gameplay mechanic.

### Elements

1. Mission (aka Level):
2. Scenario:
3. Player:
4. Enemy:
5. Projectile:
6. Power-ups:

### Player movement

Player moves in constant speed. There is no distinction between walk and run.

Player can move in all four directions and face a different direction that that of movement.

[illustration movement and facing]

Because of the scrolling mechanic (detailed in [reference section detailing scrolling]) the movement backwards is limited to the bottom of the screen.

Face Directions (turning): forward, left or right and combinations.

Move Directions: forward, backward, left and right and combinations.

[illustration showing movement and facing in different directions]

[illustration showing movement constrained to bottom of the screen]

Movement is affected by **Auto Shoot Settings**:

1. **Auto Shoot ON:**

* Player always faces the direction of movement except when moving backwards in which case it faces the opposing direction.
* There is no way to turn without moving.
* In this mode, one of the player’s hands is free to perform other actions not related to movement.

1. **Auto Shoot OFF:**

* Player controls movement and turning independently. It may face a direction and move in another.
* Turning is constrained to the upper 180o arc.
* In this mode, one of the player’s hands is free to perform other actions not related to movement.

### Player actions

Player can perform actions and move at the same time.

1. **Shoot:**
   * Player fires a projectile
   * Because of the movement constraints the player **cannot** shoot backwards
   * Player can shoot with one of two weapons (see [add reference to weapons section]):
     1. Primary
     2. Secondary
   * Shooting is affected by **Auto Shoot Settings**:
     1. Auto Shoot ON: the primary weapon fires automatically when an enemy is in front of the player and in range.
     2. Auto Shoot OFF: player must activate the fire action (i.e. by pressing the fire button) corresponding to his weapon of choice (Primary or Secondary). Weapon will fire regardless of having an enemy in range.

* The secondary weapon must always be manually activated regardless of the control mode.

[illustration showing shooting with AutoShoot ON and OFF]

1. **Collect Power-Ups:** 
   * Player can collect power ups by walking over them.

### Combat

1. Health
2. Ammo
3. Damage

### Weapons

1. Primary
2. Secondary

### Power-Ups

1. Health
2. Ammo
3. Buff

## Camera

### Perspective

Top down with and slight angle

### Control

Camera follows the player

## User interface

### GUI

[Describe elements (types of widgets and there function)]

[Refer to section with layouts]

### HUD

[Describe elements]

[Refer to section with layouts]

## Multiplayer

Not supported.

# Game world

## Overview

## Travel

## Scale

## Time

## Scenarios

## Static Elements of the Scenario

## Dynamic Elements of the Scenario

### Player

### Enemies

### NPCs

# Level design

## Skills

## Obstacles

### Enemies

### Non-Enemies

## Level progression

# Game engine

## Render

## Textures

## Lights

## Shadows

## Audio

## Terrain

## Water

## Particles

## Physics

## Input controls

# Music and Sound FX

# Visual Style

# References

## Rambo: First Blood Part II / Ashura (阿修羅) / Secret Command - Sega Master System

## Assault Commando

## Assault Commando 2

## Minigore 2

# Appendix A: GUI Layout

# Appendix B: HUD Layout

# Appendix C: Character Animation

# Appendix D: Story