

The Photographer's Guide to Los Santos

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Preface

“Los Santos. The city of shitheads. Where else would he be?”

— Trevor Philips

Chapter 1

Introduction

1.1 About The Photographer's Guide to Los Santos

The Photographer's Guide to Los Santos sits between a touristic guide and a photography manual, and between an exhibition catalogue and a peak behind the scenes of artwork creation.

The Photographer's Guide to Los Santos is an ongoing project that builds on top of a research on artistic practices within spaces of computer games, with a particular focus on in-game photography, machinima and digital visual arts. It follows some themes and ideas previously explored in the exhibition *How to Win at Photography*, while focusing more specifically on the relationship between computer games and photographic activities inside the world of Grand Theft Auto V.

The idea of a guide refers to in-game photography as a form of 'virtual tourism' (Book, 2003), which was also the premise of an actual tourist guide published by Rough Guides in their 2019 *Rough Guide to XBOX*. Yet this guide project also understands the game world as a site for image production and artistic creation, turning the game into a destination for a 'game art tourist'. The Photographer's Guide to Los Santos presents the game environment of Grand Theft Auto V both as a space to explore and in which to create images, as well as a place to navigate and learn about some of the most important artworks that it has enabled to create.

The project also brings together several experiences from teaching in-game photography as an artistic practice in different educational settings and institutions, compiling materials and tools for students and artists interested in engaging with the field. The tourist guide of the game world doubles as a photography manual for the in-game photography age, featuring tutorials and exercises ranging from

game screenshotting to computer programming for creative modding. Through the practical exercises, the project invites to rethink the game object as a space for creative, subversive and critical endeavours, which can be played differently, documented, reclaimed or modified through an artistic approach.

Finally, the project draws inspiration from the works of artists who have explored the ‘metaplay’ of photographing game worlds instead of following the game rules and attempt to reach the goal of winning. The Photographer’s Guide to Los Santos is indebted to all the artists it features, but was particularly inspired by Gareth Damian Martin’s live streamed workshop *Photography Tour of No Man’s Sky* (realized for Now Play This Festival 2020), Total Refusal & Ismaël Joffroy Chandoutis’s 2021 in-game lecture performance and guided tour *Everyday Daylight* (realized for the CCS Paris), and Alan Butler’s epic 2020 live endurance performance *Witness to a Changing West* (realized for Screen Walks) and his ‘Content Replication Assignments’.

1.2 Grand Theft Auto V Studies

Los Santos is the Grand Theft Auto V’s fictional, parodic version of real-life Los Angeles. Just like Los Angeles is the global centre of film and commercial media production, Los Santos is the epicentre of in-game photography and machinima creation. While it may seem reductive to only focus on a single game to address the larger phenomenon of in-game photography, GTA V is the biggest source of creative outputs to date, with its extended open world and one of the largest community of active modders. Launched in 2013, the game contains a world map of more than 80 square kilometers of total area, which includes the urban area of the city of Los Santos and the rural area of Blaine County. This incredibly vast environment features a large desert region, dense forest, several mountains, beachside towns, on top of the large metropolis of Los Santos. The game simulates the everyday life of hundreds of individual NPCs (while it allegedly counts a population of over 4 million) as well as counting 28 animal species, and more than 800 buildings in GTA V are based on real-life landmarks. The size of the photorealistic simulation is only matched by the complexity of the game engine and its code, which - thanks to the effort of GTA V’s modding community - allows players to use the game world as a powerful tool to create new scenes, take controls of its algorithmic entities, modify cameras and reshaping the game into a movie set or a photo studio.

GTA V Satellite Map by Manas Sharma

1.3 Grand Theft Auto V Tourism

This guide allows players to explore the game environment following some of the most interesting artworks that have been created with(in) it. The guide is

divided in thematic chapters that follow different artistic practices, taking place in different locations of the game environment, followed by different tutorials and exercises connected with the works and the space analyzed. Each selected work is presented by a curatorial statement, introducing the work and its artistic relevance. The work is accompanied by information on the in-game location from which it was produced, inviting the readers to reach the destination in Grand Theft Auto V through maps and indications.

1.4 Grand Theft Auto V Art Education

Each thematic chapter features a tutorial section that introduces different techniques and strategies to capture images within Grand Theft Auto V. The chapters are thought to be experienced in order, as the tutorials at times rely on knowledge that is built on top of previous lessons. Each tutorial is accompanied by content replication assignments, in which the readers is invited to use the skills learned from each chapter to recreate a work presented in that section.

Chapter 2

Architecture Photography

2.1 from *The Continuous City*, by Gareth Damian Martin

Gareth Damian Martin, *Outskirts*, from *The Continuous City*,

Gareth Damian Martin, *Pathways*, from *The Continuous City*,

artwork text

More about *The Continuous City* Interview with Gareth Damian Martin

2.1.1 Getting there

The intersection of Interstate 4 and Interstate 5.

2.2 Readings

Heterotopias

Mark D Teo, The Urban Architecture of Los Angeles and Grand Theft Auto, 2015. https://www.academia.edu/18173221/The_Urban_Architecture_of_Los_Angeles_and_Grand_Theft_Auto

2.3 Tutorial

2.3.1 Photographing the Game Screen

2.3.1.1 Analogue Game Photography

2.3.1.2 Screenshotting

2.4 Content Replication Assignment

Chapter 3

Social Documentary

3.1 *Down and Out in Los Santos* by Alan Butler

artwork text

More about *Down and Out in Los Santos*

3.1.1 Getting There

3.2 *Fear and Loathing in GTA V* by Morten Rockford Ravn

artwork text

More about *Fear and Loathing in GTA V*

3.2.1 Getting There

3.3 Readings

3.4 Tutorial

3.4.1 In-game Smartphone Camera

3.5 Content Replication Assignment

Chapter 4

Re-enactment photography

4.1 *A Study on Perspective* by Roc Herms

artwork text

4.2 *Little Books of Los Santos* by Luke Caspar Pearson

artwork text

4.3 *Nine swimming pools and a broken glass* by Alan Butler

artwork text

4.4 *26 Gasoline stations in GTA V* by Lorna Ruth Galloway

artwork text

4.5 *26 Gasoline stations in GTA V* by M. Earl Williams

artwork text

4.5.1 Getting There

4.6 Readings

4.7 Tutorial

4.7.1 Scene Director Mode

4.8 Content Replication Assignment

Chapter 5

Nature Documentary

5.1 Deercam by Brent Watanabe

artwork text

5.1.1 Getting There

5.2 Virtual Flora

artwork text

5.2.1 Getting There

5.3 Readings

5.4 Tutorial

5.4.1 Modding Introduction

5.4.1.1 Preparation and Setup

- Install Windows 11
- Download and install Steam (with a copy of GTA V or buy the game if you do not have it. GTA V is 100+ GB so it will take a few hours depending on your internet connections)

- Download Script Hook V, go to the bin folder and copy `dinput8.dll` and `ScriptHookV.dll` files into your GTA V directory `C:\Program Files (x86)\Steam\steamapps\common\Grand Theft Auto V`
- Download Script Hook V dot net, copy the `ScriptHookVDotNet.asi` file, `ScriptHookVDotNet2.dll` and `ScriptHookVDotNet3.dll` files into your GTA V directory `C:\Program Files (x86)\Steam\steamapps\common\Grand Theft Auto V`
- Create a new folder in GTA V directory and call it “scripts”.
- Download and install Visual Studio Community (free version of VS). Open Visual Studio and check the .NET desktop development package and install it
- Run GTA V and test if Script Hook V is working by pressing F4. This should toggle the console view.

5.4.1.2 Creating a Mod File

- Open Visual Studio
- Select File > New > Project
- Select Visual C# and Class Library (.NET Framework)
- Give a custom file name (e.g. `moddingTutorial`)
- Rename public class `Class1` as “`moddingTutorial`” in the right panel Solution Explorer
- In the same panel go to References and click add References... > Browse > browse to Downloads
- Select `ScriptHookedVDotNet` > `ScriptHookVDotNet2.dll` and `ScriptHookVDotNet3.dll` and add them
- Also add `System.Windows.forms`
- Also add `System.Drawing`
- In your code file add the following lines on top:

```
using GTA;  
using GTA.Math;  
using System.Windows.Forms;  
using System.Drawing;  
using GTA.Native;
```

- Modify class moddingTutorial to the following:

```
namespace moddingTutorial
{
    public class moddingTutorial : Script
    {
        public moddingTutorial()
        {
            this.Tick += onTick;
            this.KeyUp += onKeyUp;
            this.KeyDown += onKeyDown;
        }

        private void onTick(object sender, EventArgs e)
        {
        }

        private void onKeyUp(object sender, KeyEventArgs e)
        {
        }

        private void onKeyDown(object sender, KeyEventArgs e)
        {
            if (e.KeyCode == Keys.H)
            {
                Game.Player.ChangeModel(PedHash.Cat);
            }
        }
    }
}
```

- Save file
- Go to Documents > Visual Studio > Project > moddingTutorial > moddingTutorial > moddingTutorial.cs
- Copy the .cs file in the GTA V directory inside the scripts folder
- Open GTA V, run the game in Story Mode (mods are only allowed in single player mode, not in GTA Online) and press 'H' to see if the game turns your avatar into a cat
- Note: every time you make changes to your .cs file in the scripts folder you can hit F4 to open the console, type `Reload()` in the console for the program to reload the script and test again the changes.

5.4.1.3 onTick, onKeyUp and onKeyDown

The main events of Script Hook V Dot Net are onTick, onKeyUp and onKeyDown. Script Hook V Dot Net will invoke your functions whenever an event is called.

The code within the onTick brackets is executed every interval milliseconds (which is by default 0), meaning that the event will be executed at every frame, for as long as the game is running.

```
private void onTick(object sender, EventArgs e)
{
    //code here will be executed every frame (or per usef defined interval)
}
```

If your function is written inside onKeyDown (withiin the curly brackets following onKeyUp(object sender, KeyEventArgs e){}), your code will be executed every time a key is pressed. If your function is written inside onKeyUp, your code will be executed every time a key is released.

```
private void onKeyUp(object sender, KeyEventArgs e)
{
    //code here will be executed whenever a key is released
}
private void onKeyDown(object sender, KeyEventArgs e)
{
    //code here will be executed whenever a key is pressed
}
```

We can specify which code is executed based on what keys are pressed/released

```
private void onKeyDown(object sender, KeyEventArgs e)
{
    if (e.KeyCode == Keys.H)
    {
        //code here will be executed whenever the key 'H' is pressed
    }
}
```

5.4.1.4 Change Player Model

The player character is controlled as Game.Player. Game.Player can perform different functions, including changing the avatar model, and performing tasks.

Change the 3D model of your character by using the *ChangeModel* function. The *ChangeModel* function needs a model ID, in order to load the model file of

our game character. You can browse through this list of models to find the one you want to try: <https://wiki.gtanet.work/index.php/Peds>

These models are all PedHashes, basically ID numbers within the PedHash group. Copy the name of the model below the image and add it to PedHash. For example if you choose the model Cat, you'll need to write *PedHash.Cat*.

To change the model of your player character into a cat you can write the following function:

```
Game.Player.ChangeModel(PedHash.Cat);
```

add it in your .cs file in the onKeyDown event, triggered by the pressing of the 'h' key:

Example code

```
hello
```

5.4.1.5 Tasks

5.5 Content Replication Assignment

5.5.1 Deercam reenactment

Write a mod script to change your game character into a deer make it autonomously wander around Los Santos.

Chapter 6

Surrealist Photography

6.1 Alexey Andrienko aka HAPP v2

artwork text

6.1.1 Getting There

6.2 Readings

6.3 Tutorial

6.3.1 Modding Peds

6.3.1.1 NPCs

6.3.1.2 Spawn a new NPC

```
// spawn a new model npc in front of player  
var npc = World.CreatePed(PedHash.Cat, Game.Player.Character.GetOffsetInWorldCoords(ne
```

6.3.1.3 Give Tasks to NPCs

6.4 Content Replication Assignment