

# PAISARQUE DOCUMENTATION

# User guide

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# 1. FIRST STEPS

## CREATING NEW PROJECT

First thing to do is create a new project so click the upper blue button. A form dialog should have been appeared. All the inputs have to filled without exception:

- *Name*: Project's id or project's name, the definition it's up to you, but this field will identify the project.
- Author: Author of the project. It is not the username!
- Location: Real location of the object represented at the application.
- Latitude and longitude: Coordinates of the real location.
- OBJ Model: Select the 3D data file in obj or wbin.
- JPG texture: Select the texture file in jpg.

Once you are done, submit the form and the project will be ready to begin working.

## SELECT PROJECT

We have added some help to find the project you are looking for. Pagination will always help you in case of hundreds of projects and searching filters will give you the wanted project. Among the filter options you can filter by *name*, *location* or *author*. In case of no filter, the default search will filter by *name*.

# 2. VISUALIZATION IN 3D

The visualization tab has some tools you can work with. They are divided in three different tabs which are:

- Project draft
- 3D Tools
- 3D Annotations

## PROJECT DRAFT

The information tab shows up the project data. Stuff as the *author*, the *location* and the *description* of the project is able to be modified anytime you need.

The map below indicates the 3D object real position. Coordinates can also be modified. The map will relaunch each time the coordinates change.

For animating the scene background, there are some cubemaps available for use. Just click in to visualize them. The default background can be applied too.

#### Notes:

Do not forget saving in case you want to keep changes made. Go to Tools tab and once there look for the saving button.

If the map has not been displayed correctly, try adding a 0 either in the latitude or in the longitude. Delete it when the map reloads.

## 3D TOOLS

## General

- Auto save Enable this option if you want to forget saving for each change.
- Save button Whenever you have modified any information about the project.
- Fullscreen See 3D scene in full screen.

#### Camera

- Restore camera Set main camera at the default and initial position.
- Orbit Use the slider variable to make the 3D model complete closed orbits at the given speed.

## 3D Model - Rotations

First thing to do before doing some work in the project. The 3D model used for each project can be with good rotations by default but there is a possibility in which it contains some bad rotations due to the photogrammetry process.

- Rotate model Rotate the model as you want. You can use:
  - Sliders: These blue sliders can help you to rotate the model in each possible axis.
  - Keys: To do it even more precisely, use A, S, D keys where each one corresponds with one axis.
- Apply changes Once you are happy with the 3D model, apply changes with the button below. Doing this stuff you do not have to apply this changes anymore.
- Cancel changes The previous rotation was correct? Click the 'X' button to cancel any change.

#### Measurements

- Set up the scale
  - Enter a valid scale for the 3D model in the input in meters which can correspond with the distance you are going to measure to configure this setting.
  - o If the scale input is empty, the default scale will be 1 meter.
  - Select two points in the 3D model to indicate how long is it. As mentioned above, the selected 3D distance will be considered as 1 meter or any other custom scale.
- Logs Each measurement will be saved in measuring logs. You can look at them using the following list:



- Distances Same process as the scaling but avoiding the first step. Only select your points in the 3D model. Depending on the quantity of points (2 or more) the distance will be saved in different logs. Two possible states:
  - o Adding points Option for adding any quantity of points.
  - Moving camera Option for moving the camera for the case where the desired point is behind the 3D model or in any position with bad visibility.
- Areas The process is similar to the distances one. In this case, the selected points
  will be placed in an auxiliary plane which will be located in the position of the first
  point (This point has to be selected in the 3D model). Two possible areas to
  calculate:
  - o *Top view area* The plane will be lying horizontally. No custom position.
  - Free area The plane allows customizing its position to adapt it at each surface.

#### Notes:

In the area process, the last selected point has to be the same as the first to make a closed area.

## Export scene

The 3D scene can be exported either capturing a snapshot or recording some complete orbits. Options described below:

- Capture image Put the camera where you need and click the capture button. A
  dialog will be shown.
  - Download the image or
  - Add it to the project contributions only by clicking one of the options
  - o Cancel the capture closing the dialog.
- Record orbit Click the record orbit button and wait until the process finishes. Once the recording has been completed, a webm file will be ready to download.
- Advanced options In case you want to modify some recording parameters, open this dialog. Options described below:
  - Name of the file to download
  - o Format of the file to download (webm or gif)
  - Quality for webm videos (Low, Normal, High, Very high)
  - Orbit speed (Low, Normal, High)

#### **ANNOTATIONS**

Annotations are an easy way to mark off your 3D figure with a brief explanation. Each time you want to set up a new one, use the *Annotations* tab at the 3D navigation menu. You're given two buttons, both to enable or disable features:

- Show: Hide or show all the annotations displayed in the scene.
- Annotate: This checkbox button allows you to enter in annotation mode. This way, camera movement turns off and a simple click in the scene adds a new annotation mark.

All annotations are saved in the table below the mentioned stuff. The *annotation table* will let you click in each row to select one specific annotation and make it blink. Camera will shift to the annotation position also. To delete them, just drag them individually to the trash below the table or click the button in the bottom to clean it all.

# 3. CONTRIBUTIONS

It is possible to add contributions to your current project. The formats of these ones are listed below:

- Image As jpg, png.
- PDF
- Text As simple notes
- Video As Youtube links

All contributions will be specifically divided by types in each tab. Once in a format tab, it is possible to *add* or *remove* contributions.

## **ADD**

- Loading a contribution by typing its url
  - o Type an url or copy it from any source in the input.
  - When ready, click the "+" button to add it to your project. Here is an example of an image url, try copy-paste it in the url input.
  - https://cdn1.epicgames.com/ue/item/Store\_Modular\_Desert\_Ruins\_screensh
     ot 02-1920x1080-168d06dc632ba9d32fa7458db00b7acb.png
- Loading from disc
  - As easy as click to ask your computer for a file. Select one and send it.
- Text format:
  - Write something in the input and click the same button as above!

#### Notes:

If your contribution does not appear in his corresponding place, try *refreshing* all the content.

Do not forget saving in case you want to keep changes made.



# **REMOVE**

To remove an existing contribution you have to follow two simple steps:

- Select a contribution by clicking into it. You can select múltiple items.
- Click

# Notes:

Like adding content, if your removed contribution is still in the page, try *refreshing* all the content.

If selecting PDF's can be a trouble, try clicking the gray bar below each PDF.

Do not forget saving in case you want to keep changes made.

# 4. EXPORT

Need to export your work? It is possible to export with many possibilities. The exporting table shows you which of the modules of your work can be downloaded to disk. Used file types are written below:

- JSON Text file
- PDF Text file
- ZIP Compressed folder
- CSV Tables file
- OBJ 3D model data file
- WBIN 3D model compressed data file
- JPG Image

## 5. MORE

For any trouble or discussion contact us. Furthermore, if case of having an idea for improving the application you are free to tell us or even implement it at your own way. The contact information is written below:

- CaSES: Complexity and Socio-Ecological Dynamics Edificio Mercè Rodoreda (Campus de la Ciutadella). Ramon Trias Fargas, 25-27 08005 Barcelona
- <a href="https://www.upf.edu/web/cases">https://www.upf.edu/web/cases</a> <a href="cases@upf.edu">cases@upf.edu</a>
- Interactive Technologies Group Edificio Tànger (Campus de la Comunicació-Poblenou). Tànger, 122-140 08018 Barcelona
- <a href="http://gti.upf.edu/">http://gti.upf.edu/</a>