Illustrator Manipulation Project Report

Project: Experimental Session 1 – Asset Extraction & Transformation

Date: 05/16/2025

Version: V1.0.0 JT

1. Executive Summary

This report provides an overview of Session 1 of the Illustrator Manipulation project, focusing on automated scripts for extracting, transforming, and reporting on grouped artwork elements within Adobe Illustrator files. Visual examples of applied outputs (apparel mockups) are included for context.

2. Visual Samples

Example exported artwork previews:

LOS ANGELES LAKERS CLASSIC CHENILLE M DK FZ PO HOODIE
BLL5516556-BLK
WS: $60/ MSRP: $120

LOS ANGELES LAKERS CLASSIC CHENILLE M DK PO HOODIE
BLL5516554-BLK
WS: $50/ MSRP: $100

Figure 1 Black Lakers Hoodie mockups with logos and pricing.

Adobe Ilustrator - Product replacement
Artificial Intelligence Dept. – Maxima Apparel

LOS ANGELES LAKERS CLASSIC CHENILLE M DK PO H
BLL5516554-BLK
WS: $50/ MSRP: $100

Figure 2 Comparison of replacements

3. Script Modules Overview

The repository contains the following key Python scripts for Illustrator automation:

4. Comparative Table of Scripts

Script	Version	Function	Status
INFO_LOGOS_GRUPO.py	V1.0.0	Extract logo group metadata	Production
INFO_LOGOS_POSICION01.py	V1.0.0	Calculate logo positions	Production
INGO_GROUPS_extract_transform_mac00.py	mac00	Base extraction & export	Experimental
INGO_GROUPS_extract_transform_mac01.py	mac01	Add ID validation & error handling	Experimental
INGO_GROUPS_extract_transform_mac02.py	mac02	Detailed reporting & cleanup	Production
replace_parent_groups_mac07.py	mac07	Replace parent group references	Production
replace_logos_mac09.py	mac09	Advanced logo replacement flow	Experimental

5. Workflow Diagram

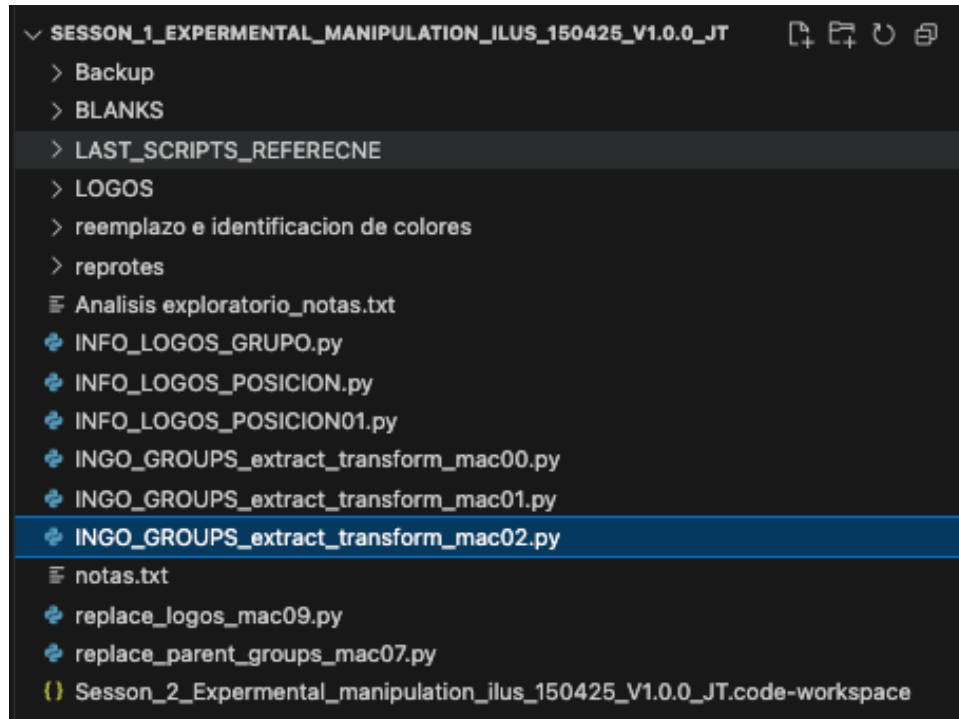Overall flow from input AI file to exported assets:

Figure 3 Directory and script flow in VS Code workspace.

6. Recommendations & Next Steps

- Standardize naming conventions before running scripts.

- Automate version tagging and changelog updates.

- Extend coverage to additional asset types (SVG, JPG).

- Integrate CI for automated testing of scripts.

7. Contact

Directory and script flow in VS Code workspace
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