

Technical Manual - Apps Assets Export PNG

Artificial Intelligence Dept. – Maxima Apparel

Technical Manual – Bulk Export of Assets in Adobe Illustrator (macOS)

Artificial Intelligence Department – Maxima Apparel

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1. Introduction

This technical manual details the architecture, operation, and parameters of the bulk export script for assets in Adobe Illustrator, developed to optimize the design team's workflow. Based on version V1.5.3 of the script `export_assets_mac_70525_V1.5.3_JT.py`.

2. Scope

The script automates the injection of ExtendScript in Illustrator, renames groups according to FRONT (F), BACK (B), S1, S2 and INSIDE (IN) conventions, detects valid IDs in TextFrames, and exports the assets to PNG with the name (ID)-(Key).

3. Requirements

- macOS 14.4+ with Automation permissions enabled
- Adobe Illustrator 2023 or higher (2025 recommended)
- Python 3.10+ installed
- pywin32 is not required on macOS

4. Script Structure

The script consists of:

- Definition of constants and ID patterns (ID_REGEX)
- Functions to rename layers and groups (processLayer)
- Logic to detect “F”, “B”, “S1”, “S2”, and “IN” groups
- Collection and filtering of TextFrames with IDs based on distance and quadrants
- Injection of ExtendScript via osascript and log handling

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5. Execution Flow

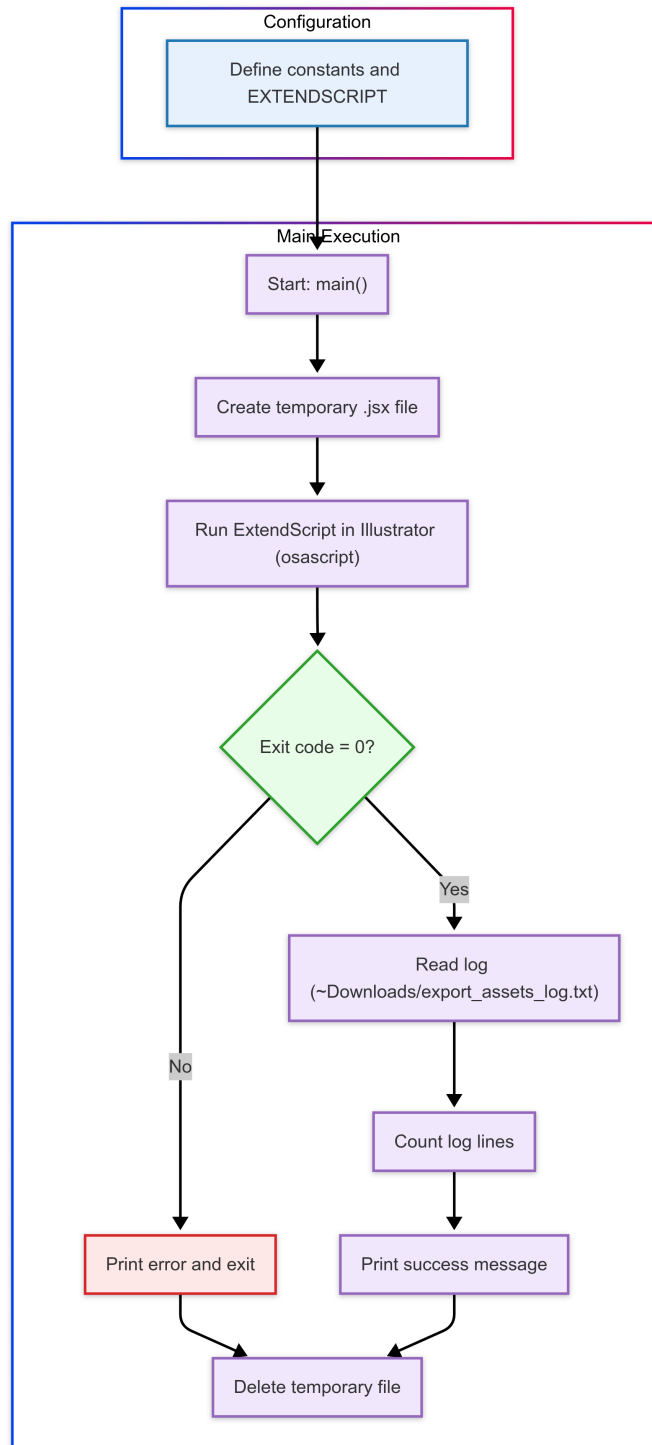


Figura 1 Flowchart, explanation of operation for the app



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6. Configuration Parameters

- MAX_ID_DISTANCE: Maximum pixel distance to associate IDs (default: 1000)
- CLI Options: --scale, --output-dir, --preview, --log-file, --group

7. Error Handling and Logs

- Alerts in Illustrator if no groups or IDs detected
- Detailed log with prefixes / indicating success or failure
- Overwrite log on each execution
- Cleanup temporary files at end

8. Spaces for Images

Below are placeholders for the design team to insert screenshots or explanatory diagrams in each relevant section:

Figura 1 – Estructura de capas en Illustrator organizada:
























































			FRONT	
			 <Grupo>	
			 <Grupo>	
			 <Grupo>	
			 <Grupo>	
			 <Grupo>	
			 <Grupo>	
			 <Grupo>	
			 <Grupo>	
			 <Grupo>	
			 <Grupo>	
			 <Grupo>	
			 <Grupo>	
			 <Grupo>	
			 <Grupo>	

Figura 2 Ordered FRONT layer

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✓	BACKS	○
>	<Grupo>	○
>	<Grupo>	○
>	<Grupo>	○
>	<Grupo>	○
>	<Grupo>	○
>	<Grupo>	○
>	<Grupo>	○
>	<Grupo>	○
>	<Grupo>	○
>	<Grupo>	○
>	<Grupo>	○
>	<Grupo>	○
>	<Grupo>	○
>	<Grupo>	○
>	<Grupo>	○

Figure 2: Ordered BACK layer

✓	S2	○
>	<Grupo>	○
>	<Grupo>	○
✓	S1	○
>	<Grupo>	○
>	<Grupo>	○

Figure 3: Ordered S1 and S2 layers

For horizontal batches of multiple graphics, extend the text frame from the leftmost to the rightmost group, as shown in the following images:

Figura 2 – Ejemplo de Convención de IDs en TextFrames

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Figura 3 Adjust text frame for horizontal batch (caps)

9. Contact and Support

For technical support or inquiries, contact:

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