

Fingerprint Placer Tool - User Manual

A visual tool for placing fingerprints directly in the Scene View. Click where you want the smudge, and it's done!

Opening the Tool

Menu: SingularBear > Tools > Fingerprint Placer

The tool window will appear. You can dock it anywhere in your editor layout.

Interface

Element	Description
Target Material	The Glass material you want to add fingerprints to
Slot (1-4)	Which fingerprint slot to use (the shader supports up to 4)
Default Radius	Size of the fingerprint when placed
Start/Stop Button	Toggle placement mode on/off

How to Use

Step 1: Setup

1. Open the tool via **Tools > SingularBear > Fingerprint Placer**
2. Drag your **Glass material** into the "Target Material" field
3. Choose which **Slot** you want to use (1-4)
4. Adjust the **Default Radius** if needed

Step 2: Prepare Your Object





Important: Your glass object must have a Collider (Box, Mesh, etc.) for the raycast to work!



If clicking doesn't place anything, add a collider:



- Select your glass object
- Add Component > Physics > Box Collider (or Mesh Collider)

Step 3: Place Fingerprints

1. Click  **START PLACEMENT** (button turns green)
2. Hover over your glass object in the Scene View
3. A **green circle** shows where the fingerprint will be placed
4. **Left-click** to place the fingerprint
5. Press **ESC** or click  **STOP** when done






Visual Feedback

When placement mode is active:

Visual	Meaning
 Green circle	Fingerprint preview (shows size)
 Green line	Surface normal direction
No circle	Mouse isn't over a valid surface (needs collider)

What Happens When You Click

The tool automatically:

1.  Enables the fingerprint feature for that slot
2.  Sets mapping mode to **World** (local space)
3.  Sets the **position** in object's local space
4.  Sets **radius** if it was zero
5.  Sets **intensity** if it was zero

 The fingerprint position is stored in **local space**, so it follows the object if you move/rotate it!

Using Multiple Slots

The shader supports **4 fingerprint slots**. Use them for variety:

Slot	Use Case
Slot 1	Main visible fingerprint
Slot 2	Secondary smudge
Slot 3	Partial print / thumb
Slot 4	Additional detail

Workflow:

1. Place Slot 1
2. Change slider to Slot 2
3. Place Slot 2
4. Repeat for 3 & 4

 Each slot can have a different **texture**, **size**, **rotation**, and **intensity** configured in the material inspector.

Fine-Tuning After Placement

After placing, go to the **Material Inspector** (Effects > Fingerprints) to adjust:

Parameter	Description
Texture	Change the fingerprint pattern
Radius	Resize the fingerprint
Rotation	Rotate the pattern
Intensity	Make it more/less visible
Roughness Add	How matte the smudge appears
Edge Falloff	Soften the edges

Troubleshooting

"Nothing happens when I click"

→ Your object needs a **Collider** component → Make sure the collider covers the glass surface

"Fingerprint appears but in wrong position"

→ Check that mapping mode is set to **World** in the material → The tool sets this automatically, but it might have been changed

"Can't see the green preview circle"

→ Make sure placement mode is **active** (green button) → Hover directly over the object with the collider

"Fingerprint doesn't move with the object"

→ This shouldn't happen - positions are stored in local space → Check if the material is shared between objects

"I placed on the wrong slot"

→ Just place again on the correct slot → Or manually reset the wrong slot in the material inspector



Shortcuts

Key	Action
Left Click	Place fingerprint
ESC	Stop placement mode



Tips & Tricks

For Realistic Results

- Place fingerprints where people would actually touch (handles, edges, center of panels)
- Vary the **rotation** for each slot
- Use different **textures** for thumb vs fingers
- Keep **intensity** around 0.5-0.7 for subtlety

For Stylized/Obvious Prints

- Crank up **intensity** to 1.0
- Increase **roughness** for very matte smudges
- Use larger **radius** values

Performance

- Each active slot has a small GPU cost
 - For mobile, stick to **1-2 slots** max
 - Disable unused slots in the material
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Requirements

Requirement	Details
Material	Must use SingularBear /Glass shader
Collider	Object needs any collider type
Scene View	Must click in Scene View (not Game View)

Works with SingularBear Glass Shader v1.0