



GRADIENT SKETCH

User Examples

FOR ADOBE ILLUSTRATOR

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Minimum System Requirements

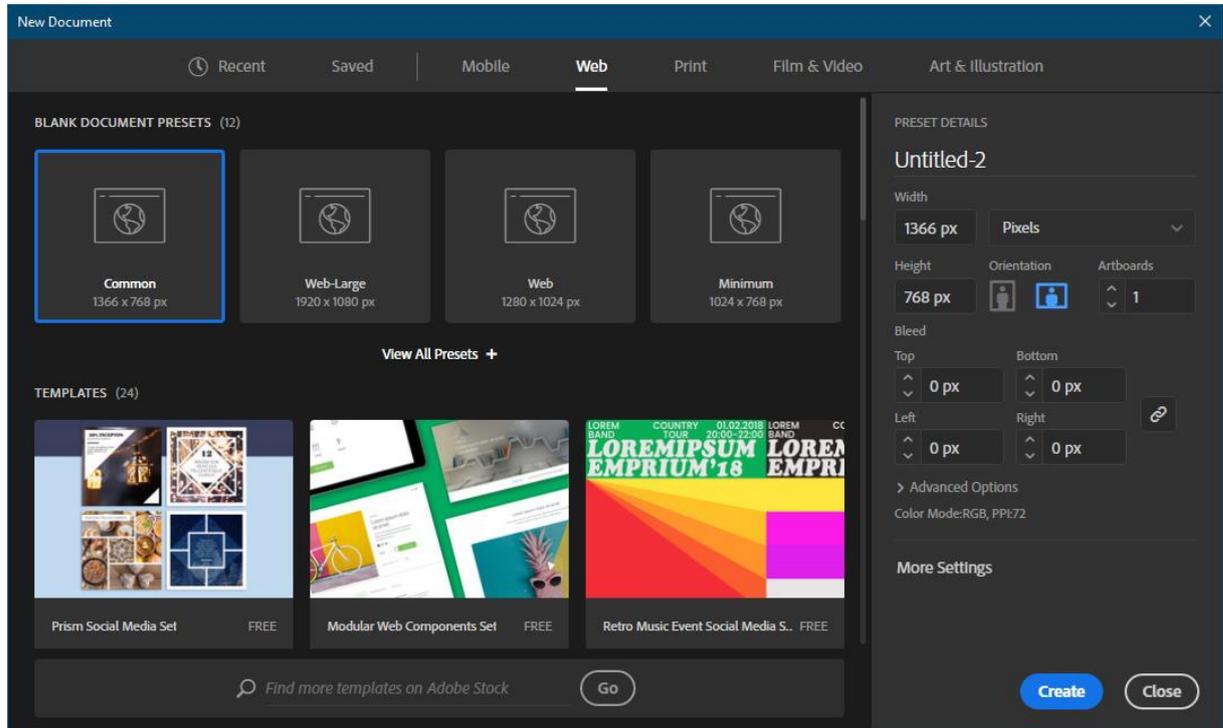
1. Hardware environment:
 - Minimum GPU: Intel HD 4400
 - Suggested GPU: NVIDIA Quadro K5000 or better
2. Software environment:
 - Windows 10
 - Adobe Illustrator 2017/2018
 - Support of NVIDIA CUDA 9.0+ is highly recommended. At least support of OpenCL 1.2.
3. Limitations:
 - Under minimum GPU or OpenCL environment, the maximum resolution for the Adobe Illustrator document is 1280*1024.
 - Suggested resolution for any hardware/software environment is under 1920*1080.

*The plugin is implemented based on highly parallel GPU computing, high resolution for any document is not recommended.

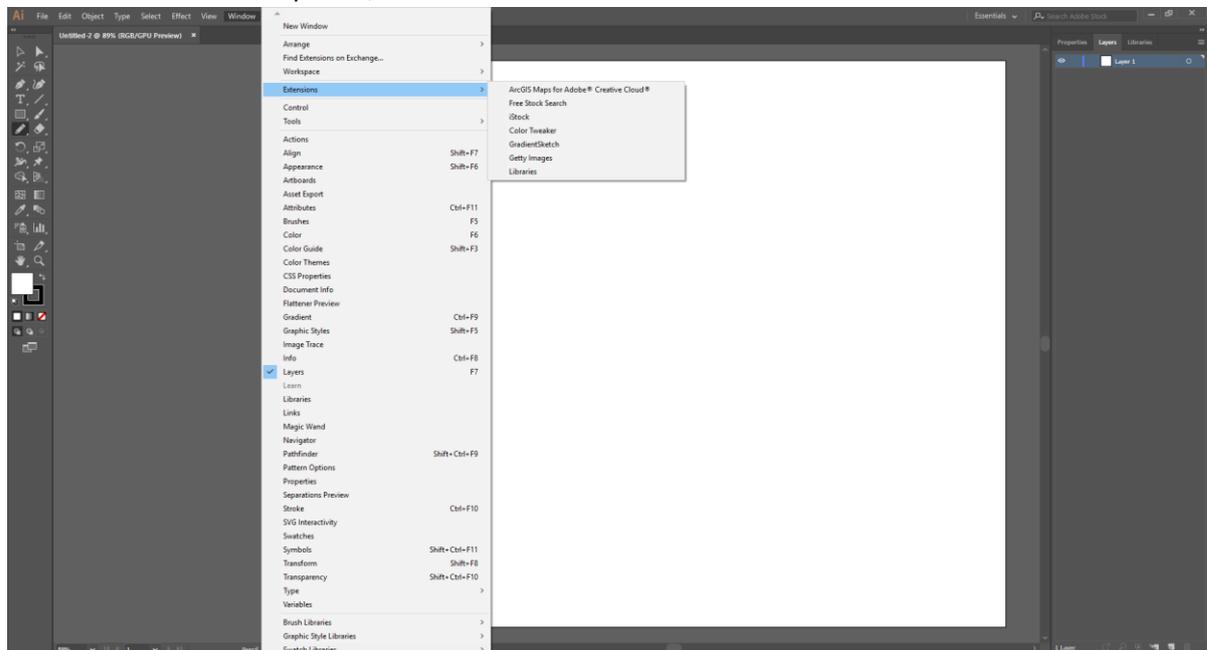
*Note: Users can expect application crash with high resolution document or more than 10 regions (closed shape) in editing in a low-configuration (e.g. Minimum hardware environment equivalent) platform.

Creating a new art document

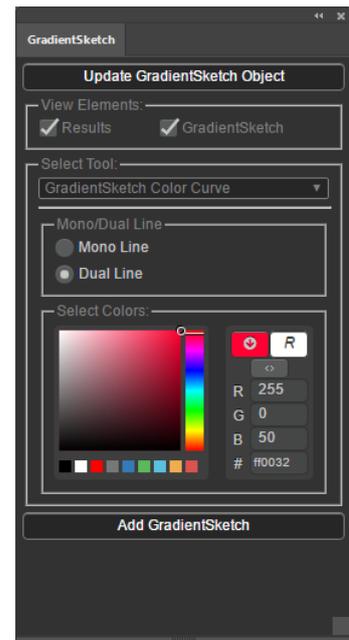
1. Open Illustrator and create a new document from the presets or open an existing document.



2. Once the document is opened, Click on menu "Window" → "Extensions" → "GradientSketch".



3. Then, the GradientSketch panel opens as below.
4. To know more about the “GradientSketch” panel and its usages, please refer to the document **“Gradient_Sketch_User_Manual.pdf”**.
5. Click on “Add GradientSketch” button on the panel to start drawing on the document.



Gradient Sketch Compatible Editing Tools

Currently Gradient Sketch supports the following tools to generate arts:

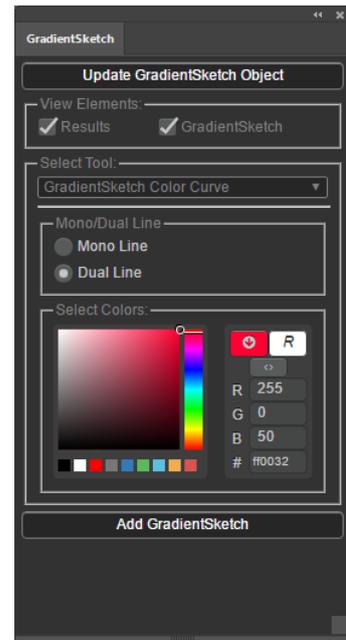
- Curvature Tool
- Pencil Tool
- Line Segment Tool
- Arc Tool
- Rectangle Tool
- Rounded Rectangle Tool
- Ellipse Tool
- Polygon Tool
- Star Tool

Users can still use other tools to modify arts.

Gradient Sketch Color Curve

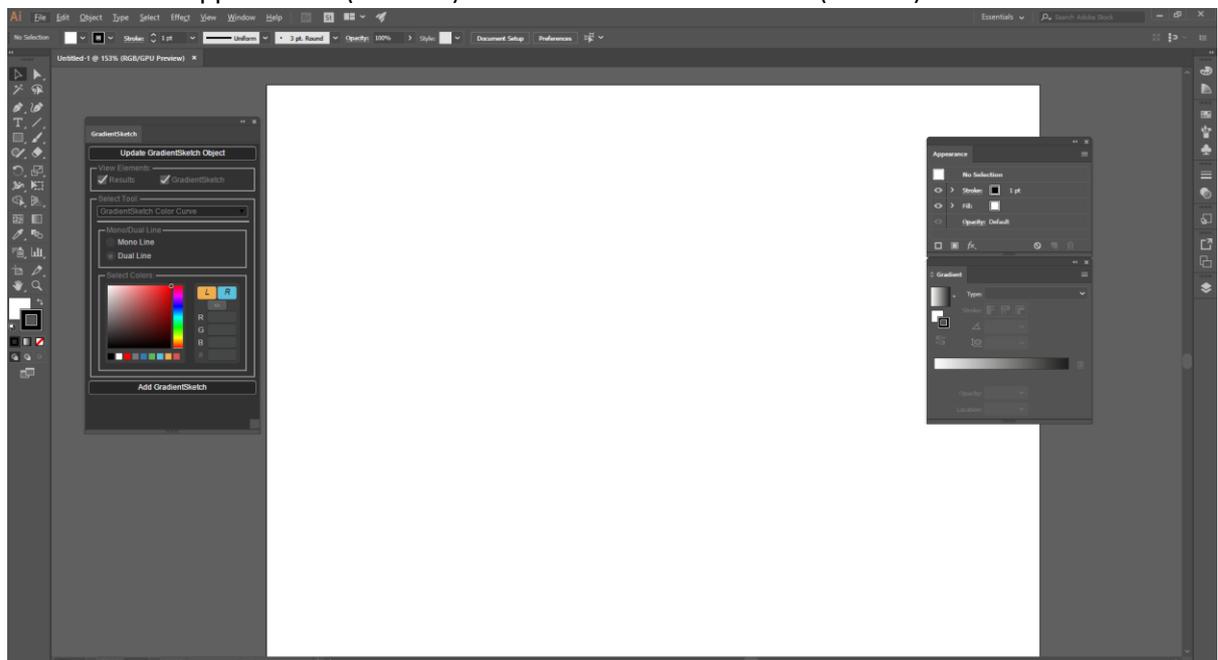
Create Gradient Sketch Color Curve

1. In the “Select Tool” dropdown menu, select “GradientSketch Color Curve”.
2. Select mono-sided or dual-sided line(curve) by the radio button.
3. Select the initial color for both sides. To pick the side (left/right along the drawing direction), click on “L” or “R” button until the label switch to a down arrow, then choose color from the palette or type in the RGB/Hex (#) values.
4. If “Mono Line” is selected, only the “L” is effective color for the whole curve. Please note that the effective color would appear as the background color of “L” and “R”.
5. Click on “Add GradientSketch” to start drawing curve, by click on that button, the Pencil tool is selected by default. Users can change to any GS compatible editing tool before drawing art.

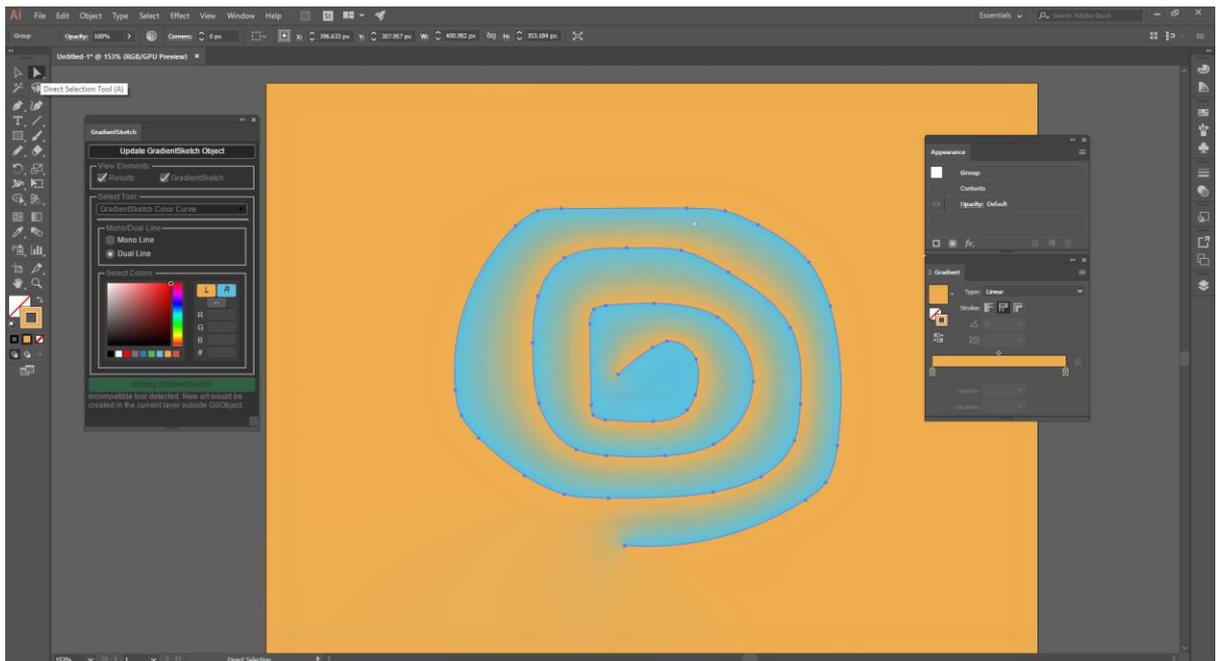


Edit Gradient Sketch Color Curve

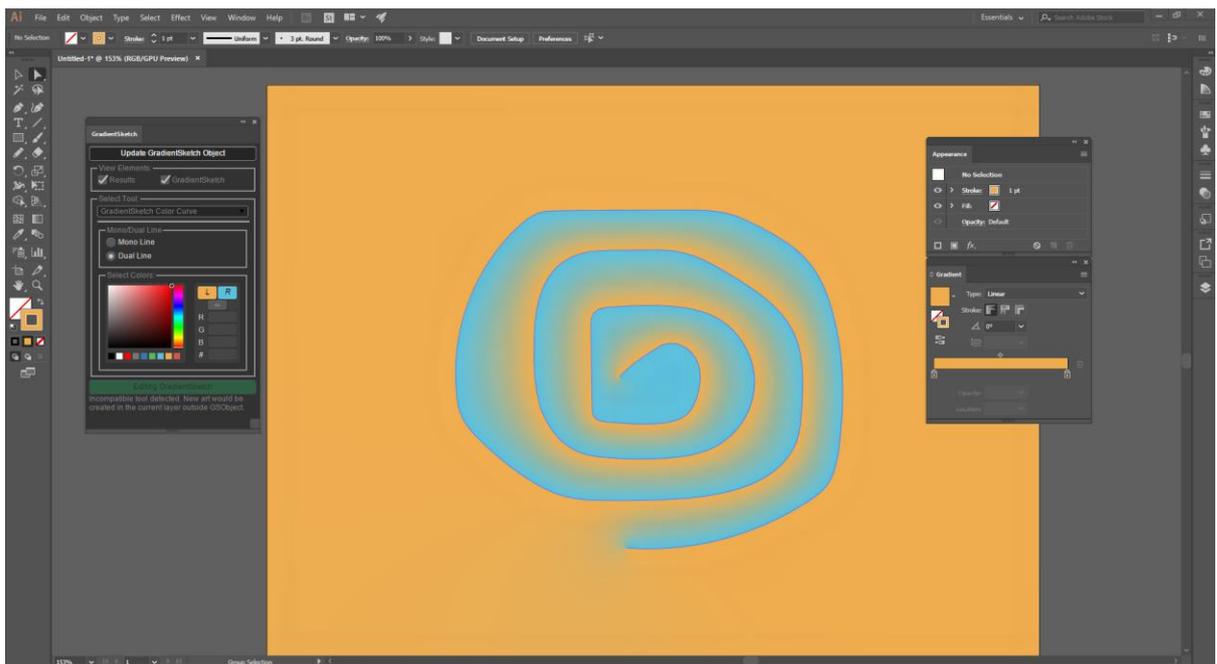
1. Before editing the GradientSketch Color Curve, open “Appearance” and “Gradient” panel from “Window” -> “Appearance” (Shift+F6) and “Window” -> “Gradient” (Ctrl+F9).



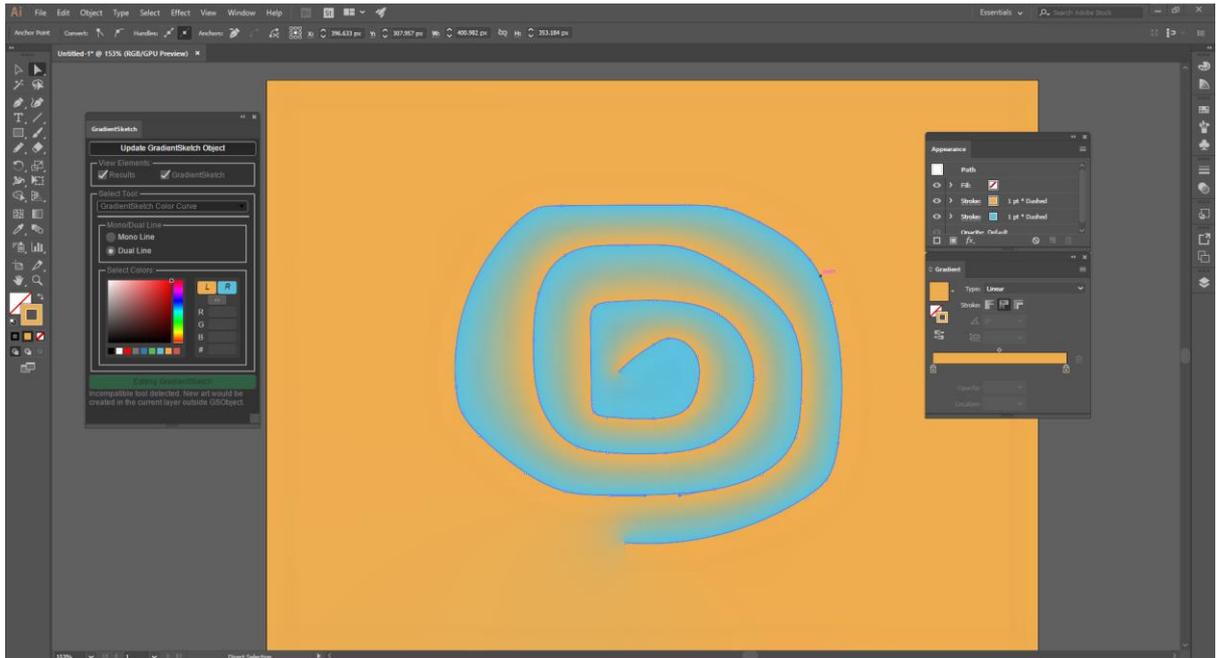
2. From AI’s tool panel, select Direct Selection Tool (A).



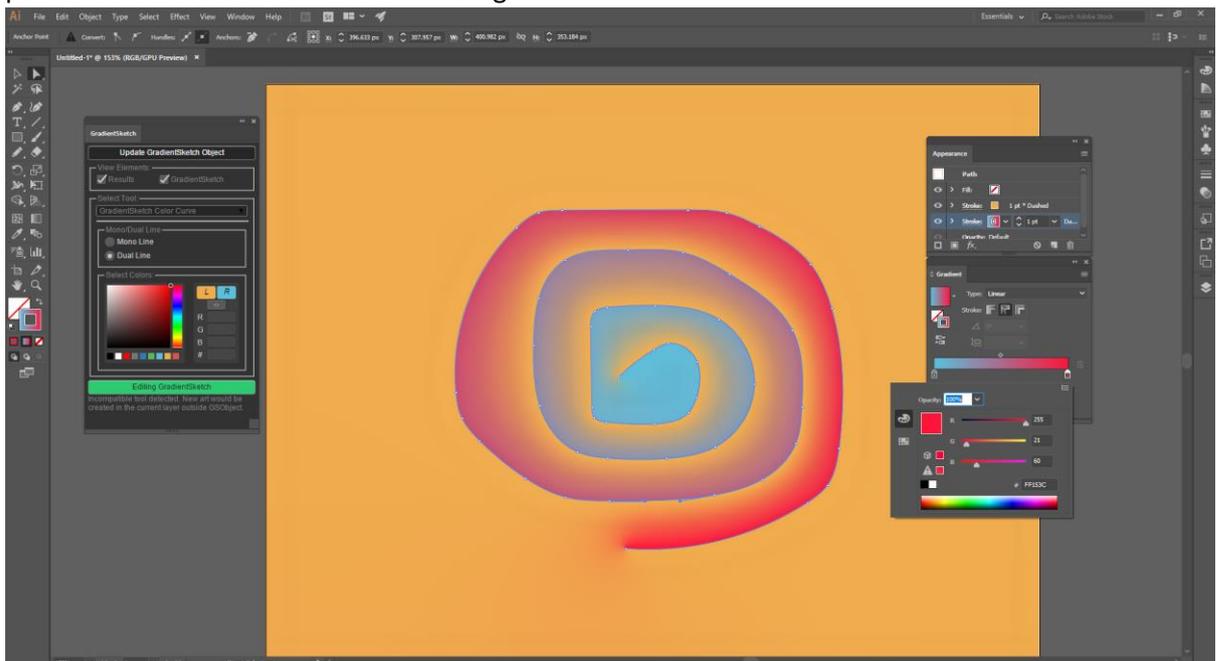
3. With Direct Selection Tool, move the cursor outside canvas and click. Make sure any art is deselected.



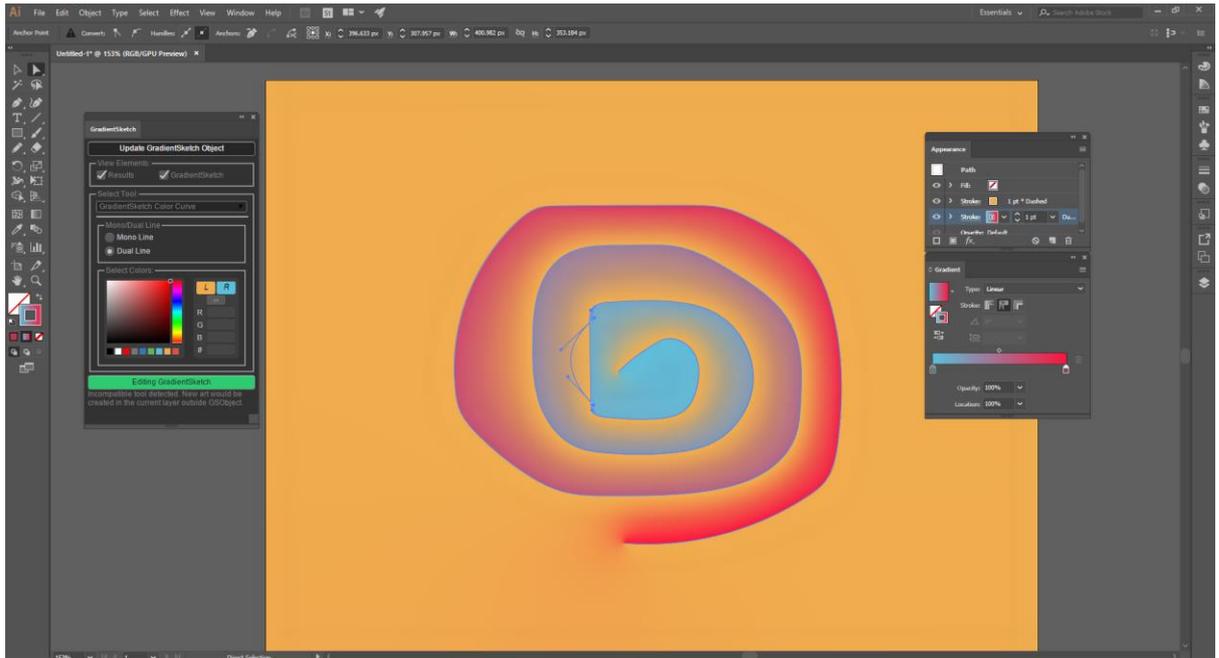
4. Move the cursor over the curve for editing. Click on the curve and select it. Once the curve is selected. The corresponding color on both sides will be shown as the strokes in the "Appearance" panel.



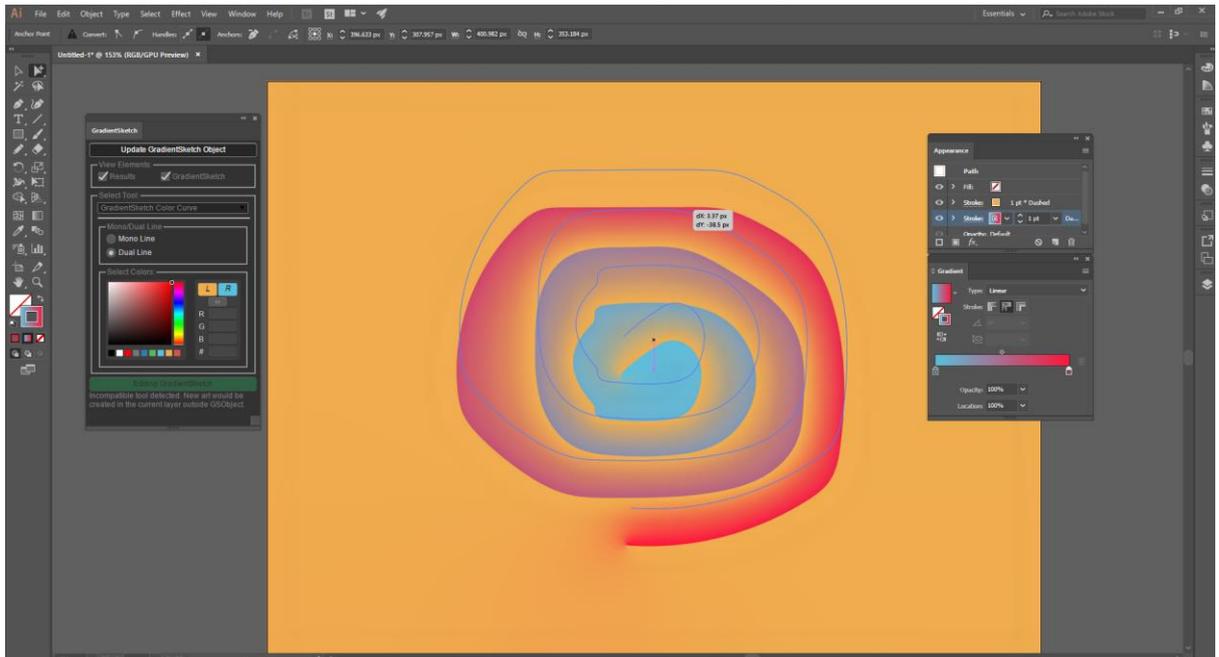
5. Click on the stroke to change color. Once clicking the color on that side will be in the gradient panel. Edit the color of each side as RGB gradient.



6. Drag the curve to change position. If the whole curve need be moved, use “Group Selection Tool”, select and drag.

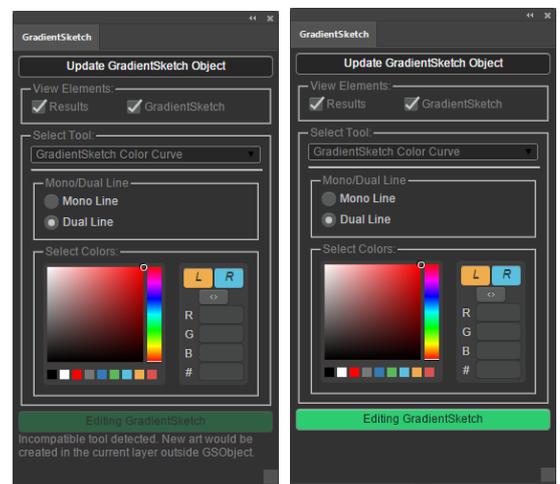


Direct Selection Tool and drag curve segments



Group Selection Tool and drag the whole curve

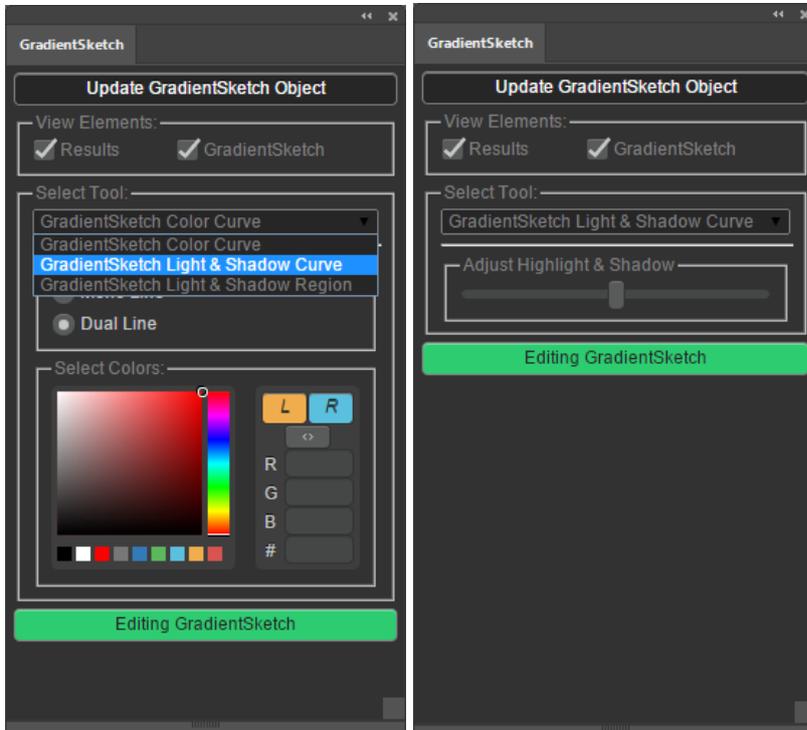
- Note that the panel status is disabled. To enable and continue add Gradient Sketch elements, select any GS compatible tool in the list above (Pencil Tool, Pen Tool etc.).



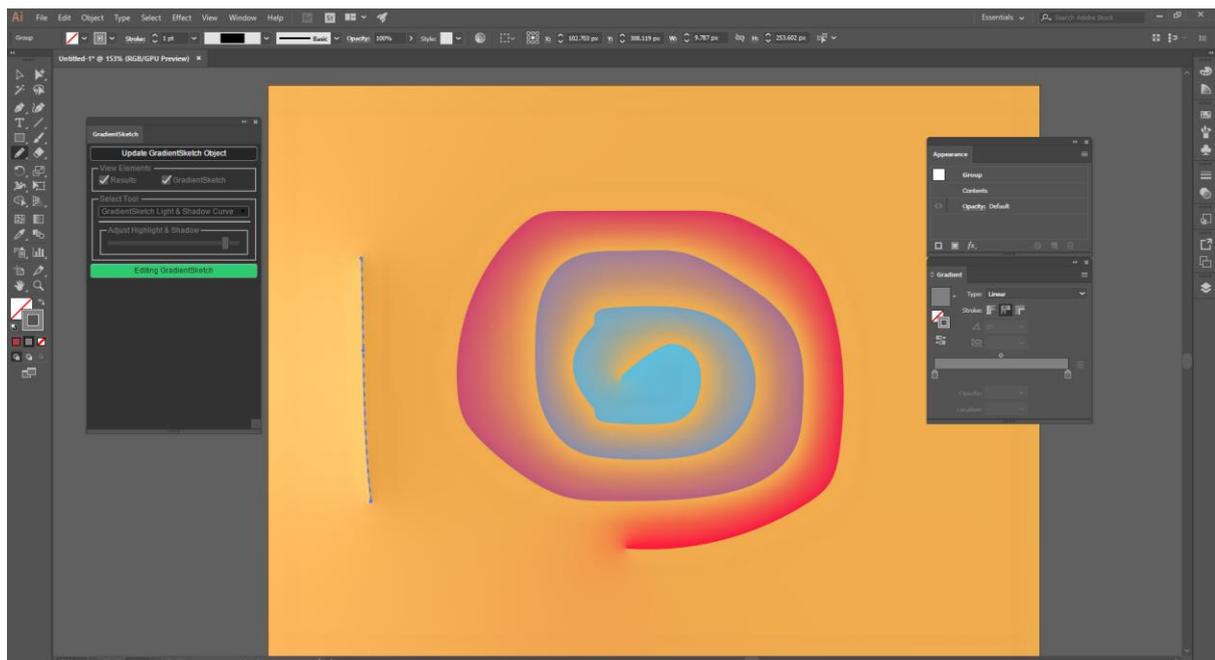
Gradient Sketch Light & Shadow Curve

Create Gradient Light & Shadow Curve

1. In the “Select Tool” dropdown menu, select “GradientSketch Light & Shadow Curve”. The panel appear as below (right).



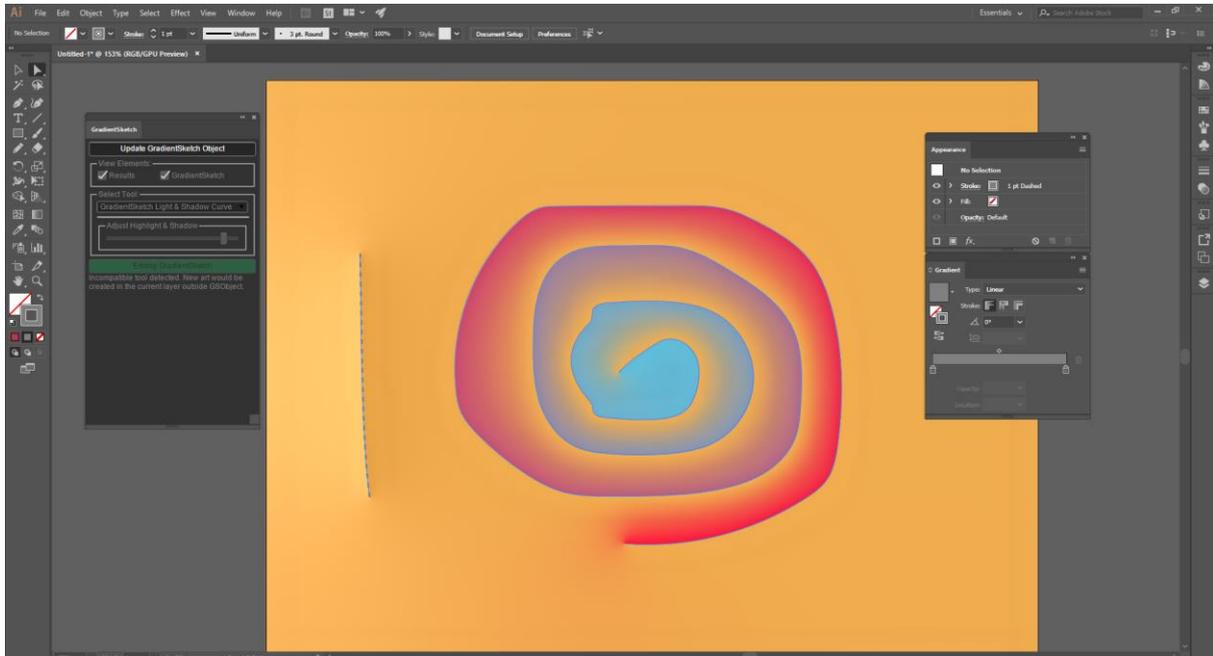
2. Adjust highlight and shadow by the slider. If sliding to the right side, the right side of the curve has more shadow and the left side has more highlight and vice versa.
3. Select a GS compatible tool and start drawing.



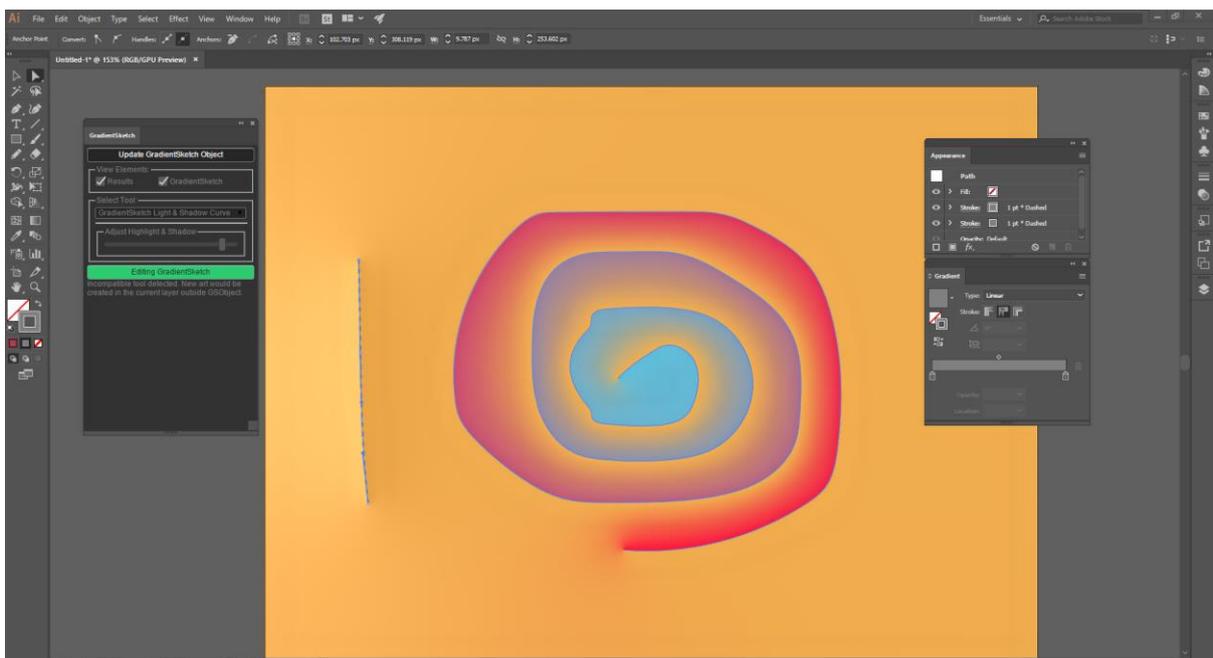
A GS Light and Shadow curve drawn from bottom to top.

Edit Gradient Light & Shadow Curve

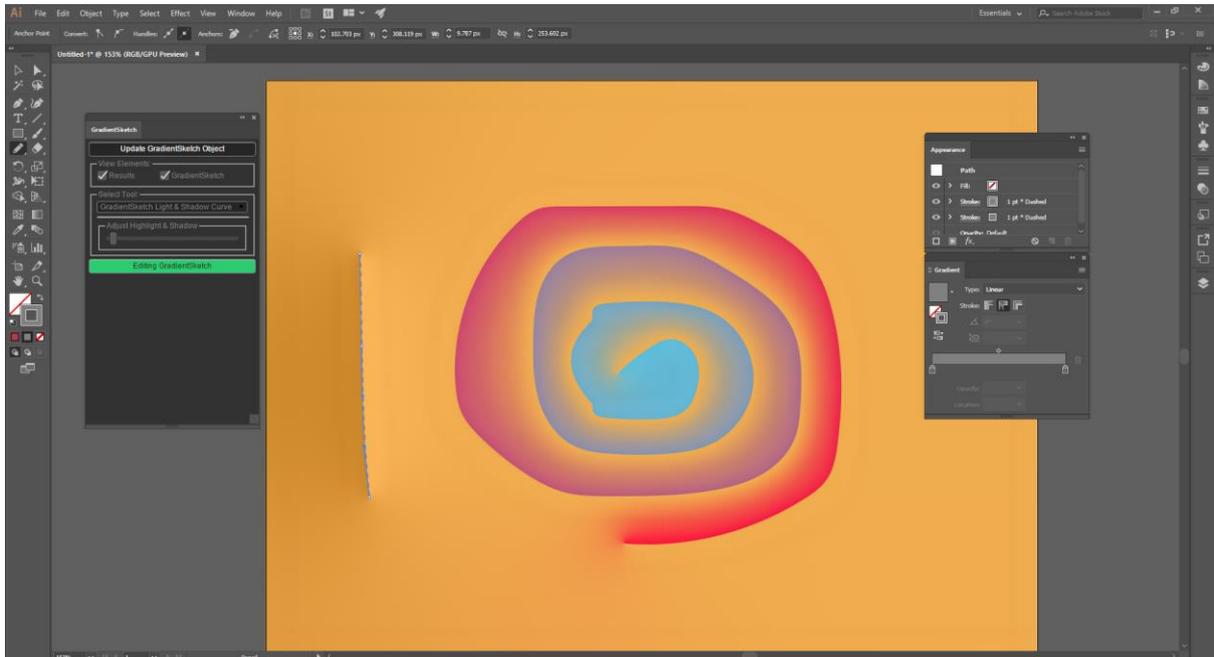
1. From AI's tool panel, select Direct Selection Tool (A).
2. With Direct Selection Tool, move the cursor outside canvas and click. Make sure any art is deselected.



3. Move the cursor over the curve for editing. Click on the curve and select it. Once the curve is selected, two grayscale strokes show up in the "Appearance" panel.



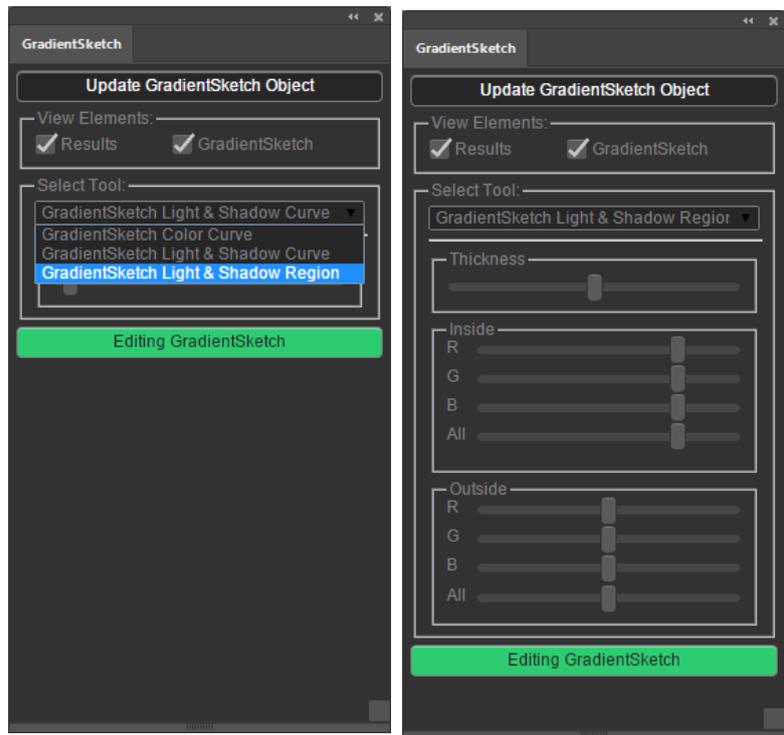
4. Do not edit the strokes.
5. Adjust the slider on the “GradientSketch” panel.



Gradient Sketch Light & Shadow Region

Create Gradient Light & Shadow Region

1. In the “Select Tool” dropdown menu, select “GradientSketch Light & Shadow Region”. The panel appear as below (right).



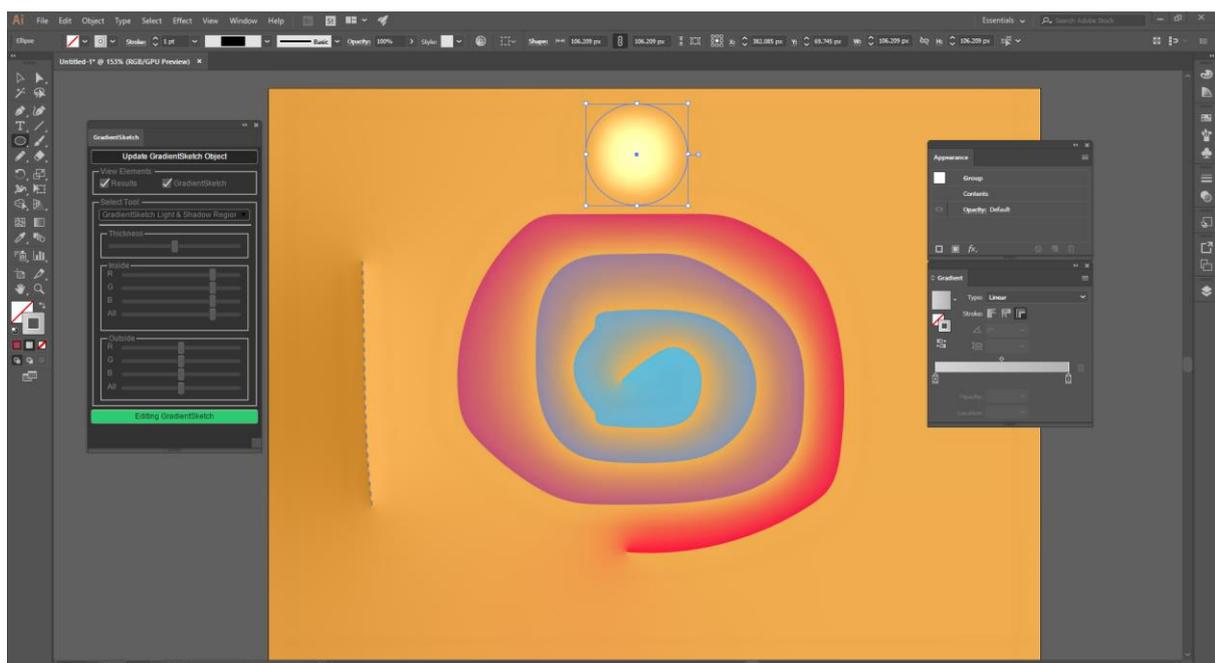
2. Adjust highlight and shadow by the slider. If sliding “Inside” -> “All” or “Outside” -> “All” to the right side, the field inside or outside the region will become brighter. Otherwise they become darker.

3. The color tones are adjustable in RGB channels.

Sliding to right let the tone appear more influenced by the specific channel and sliding to left means less influenced.

4. Thickness controls the rim of the region. Sliding towards right side shrinks the highlight/shadow area.

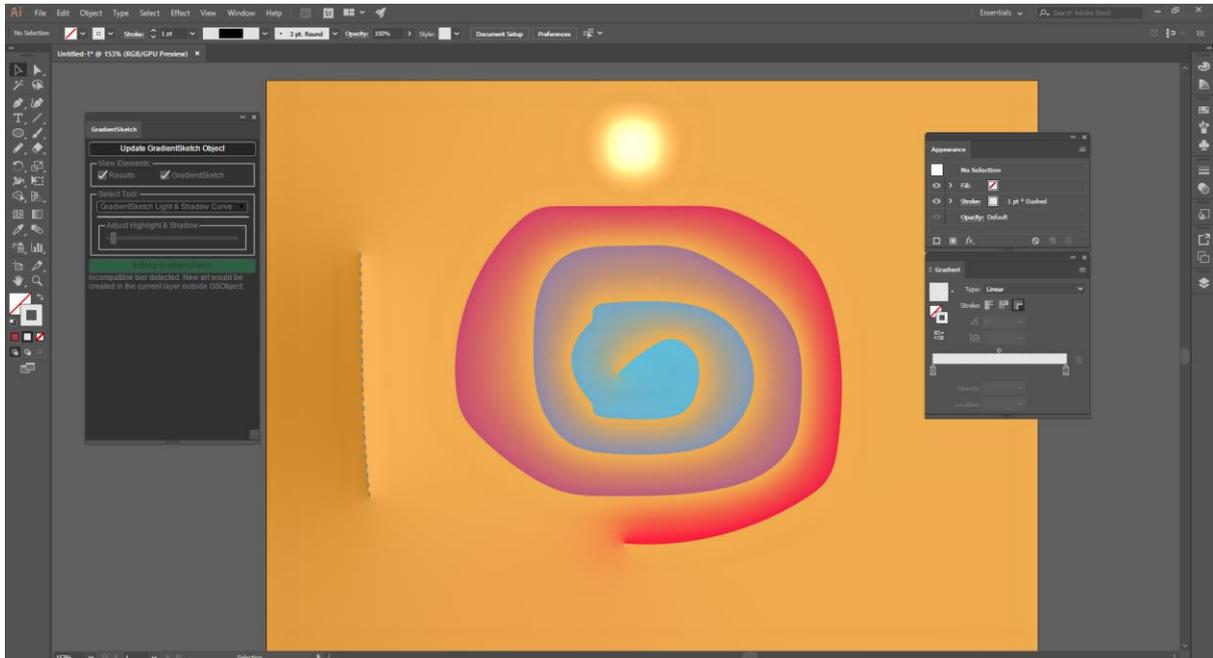
5. Select a GS compatible tool and start drawing.



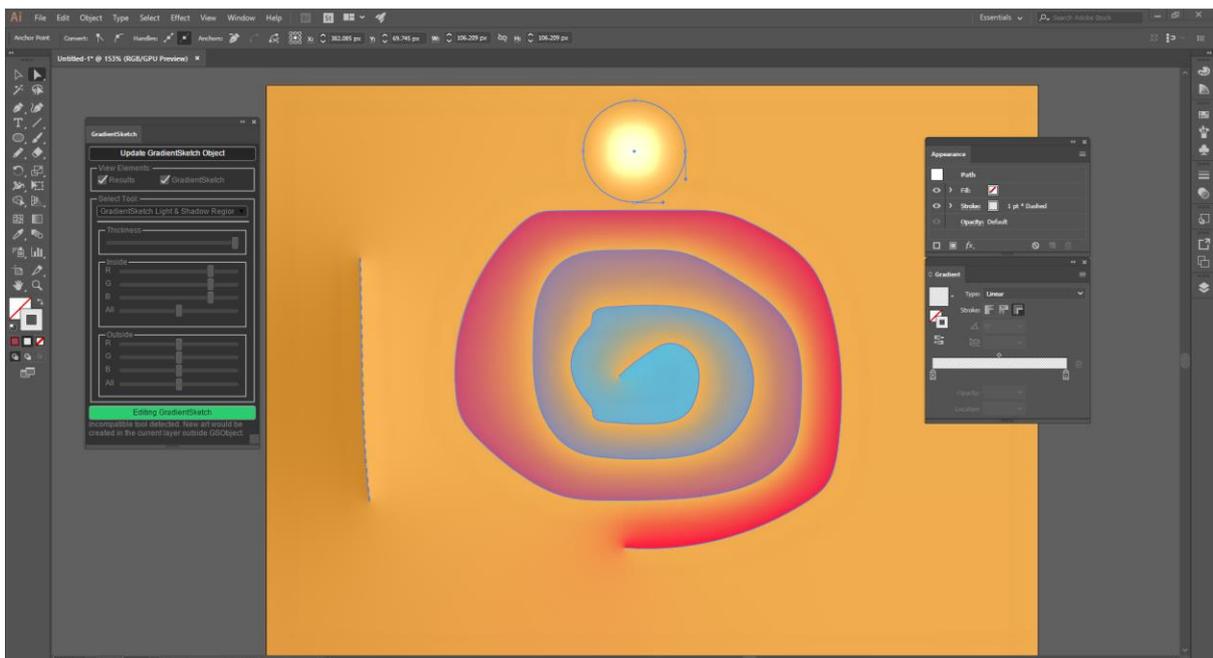
A GS Light and Shadow Region drawn with Ellipse Tool.

Edit Gradient Light & Shadow Region

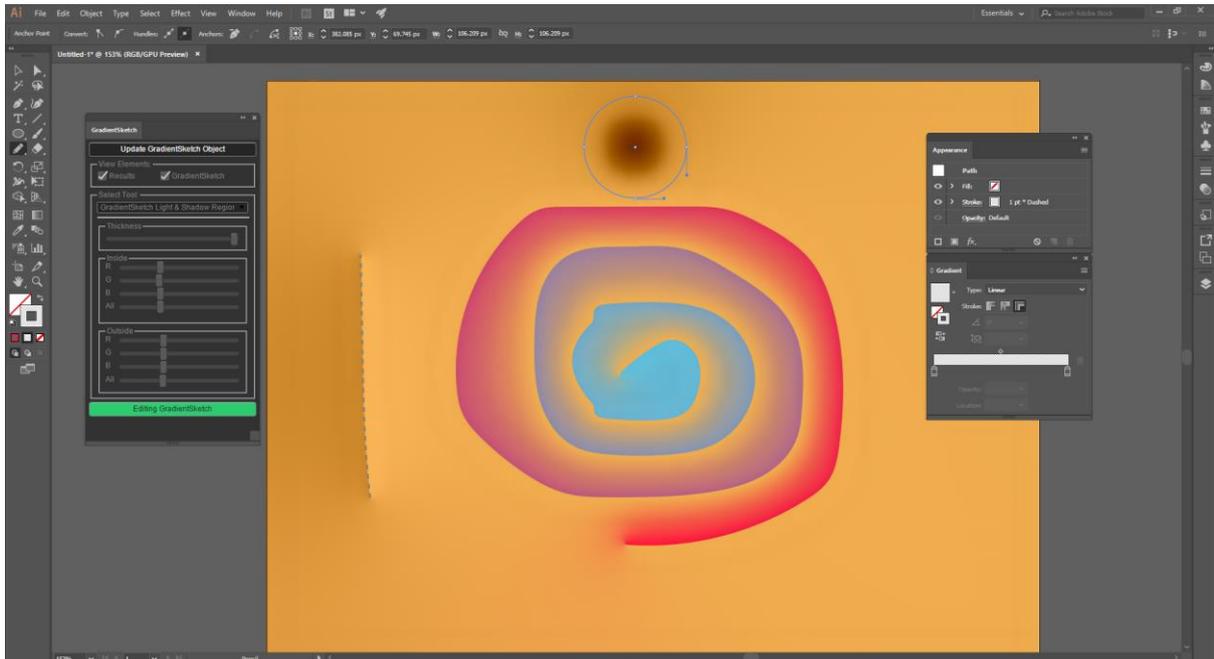
1. From AI's tool panel, select Direct Selection Tool (A).
2. With Direct Selection Tool, move the cursor outside canvas and click. Make sure any art is deselected.



3. Move the cursor over the **region's path** for editing. Click on the **path** and select it. Once the region is selected, a transparent stroke show up in the "Appearance" panel.

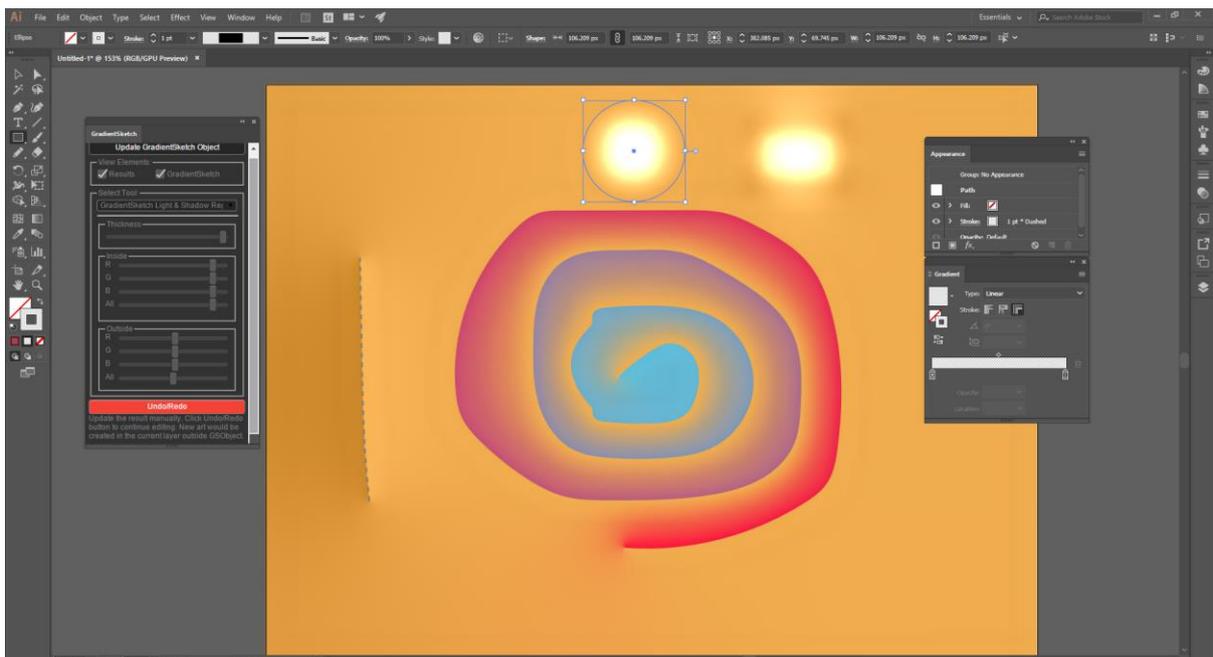
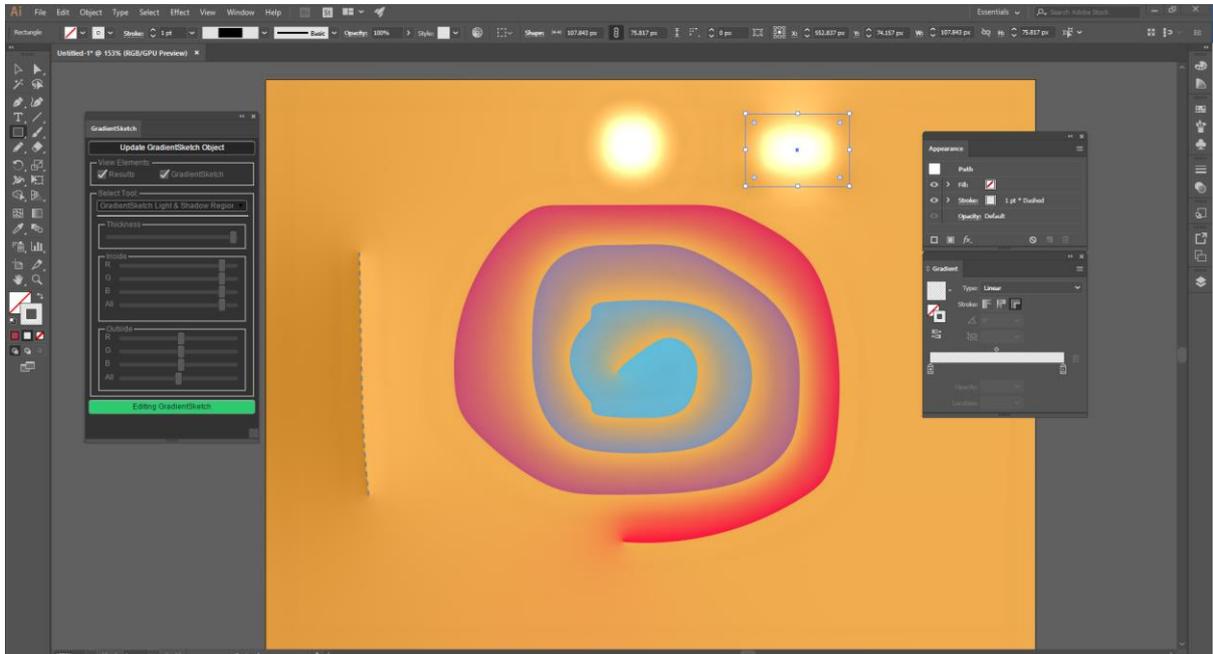


4. Do not edit the strokes.
5. Adjust the slider on the “GradientSketch” panel.

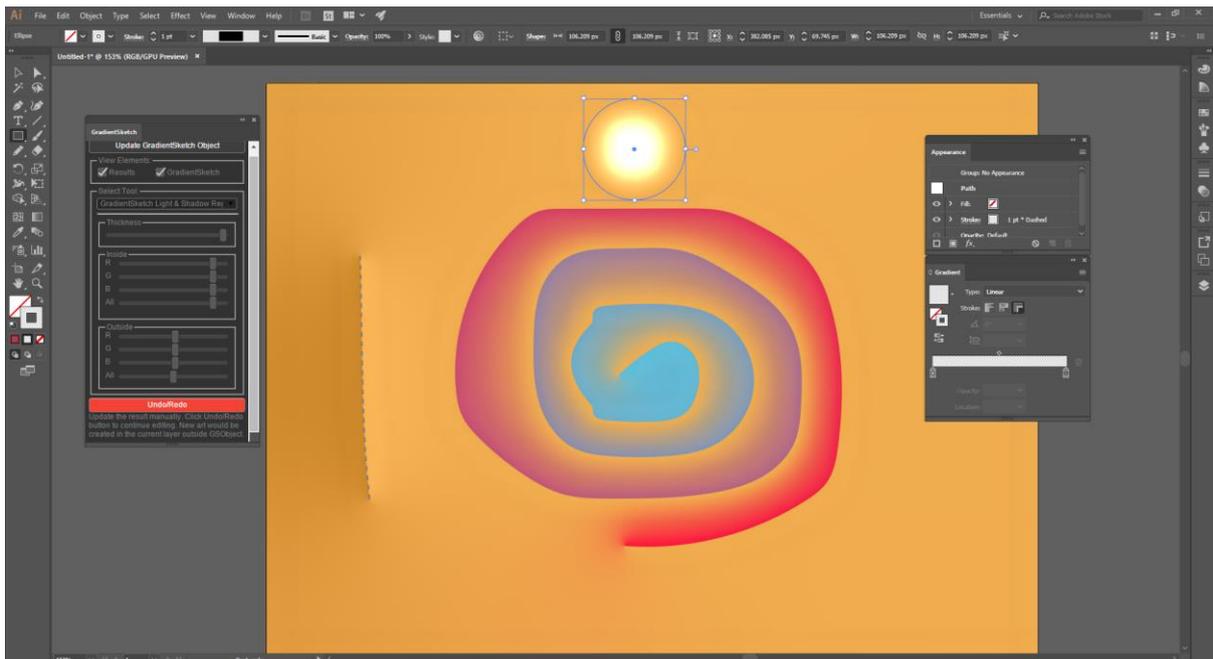


Undo & Redo

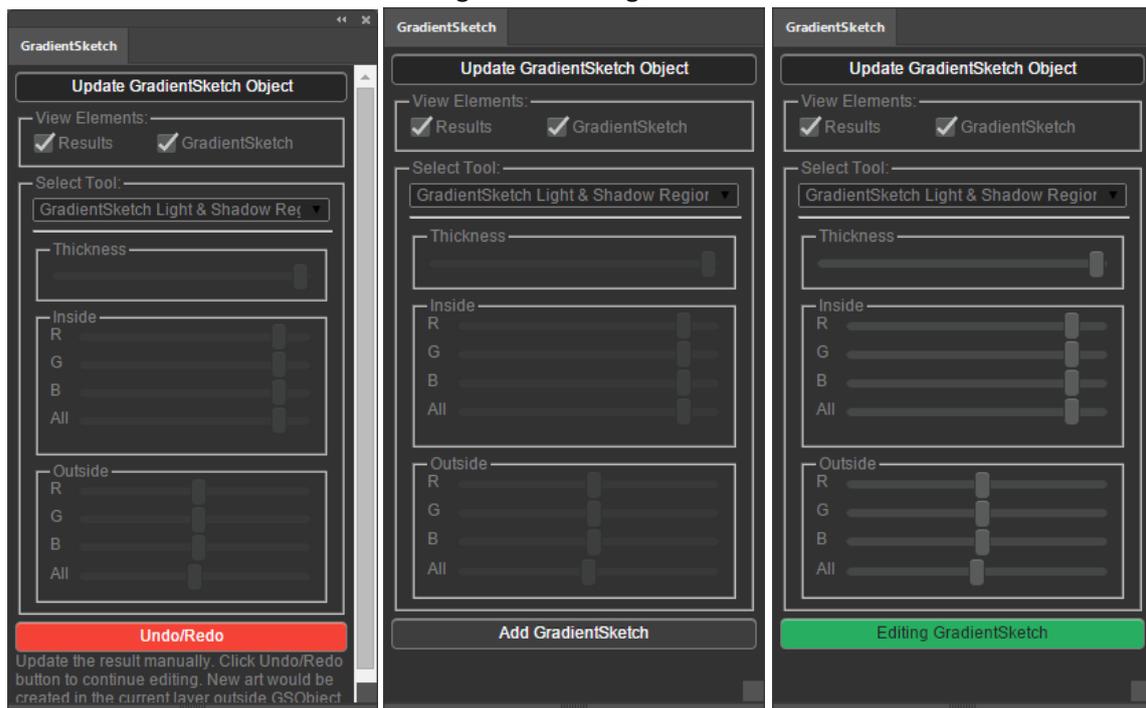
1. Click menu option “Edit” -> “Undo” to undo the previous operation. The “GradientSketch” panel appear as below.



2. After undo/redo, the latest result is still there. Click “Update GradientSketch Object” to manually update the document.



3. To continue editing, click on “Undo/Redo” button in the “GradientSketch” panel. It will return to “Add GradientSketch”. Click on that again to “Editing GradientSketch” and add new elements.



4. Step 3 must be finished if users are to add new elements. Otherwise any new curve/objects are drawn outside the GradientSketch Group object and will not be regarded as part of Gradient Sketch.