

Sun Diagram

SketchUp extension for 3D sun paths and sunlight analysis in architecture
Developer: Nam NH - FebHouse
Compatibility: SketchUp 2020+ (MacOS & Windows)
More info: SunDiagram.com or search Sun Diagram on Extension Warehouse / Google

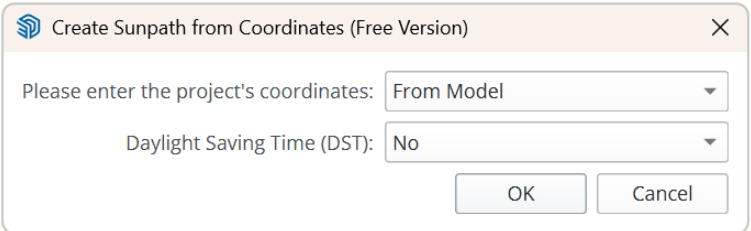


1. Create a 3D Sunpath from Coordinates (Feature 1)

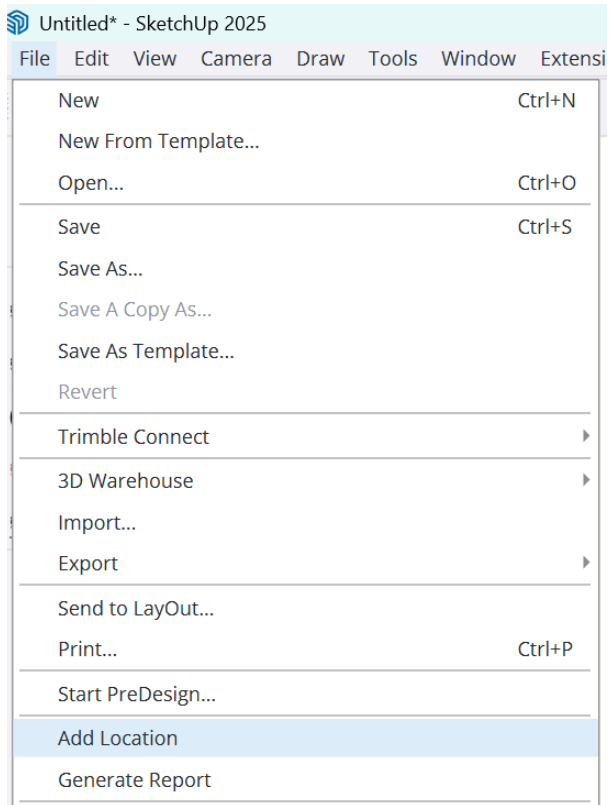
You can generate a 3D sunpath by simply entering your project's location.
There are **02 input methods**:

Option A – From Model

Use the project coordinates already embedded in your SketchUp model.

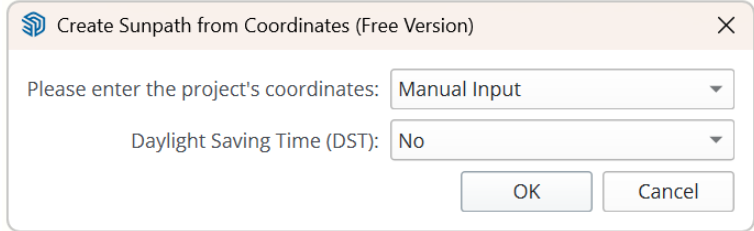


Coordinates can be preloaded via File -> Add Location.

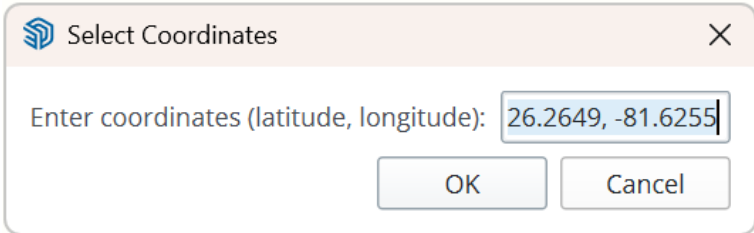


Option B – Manual Input

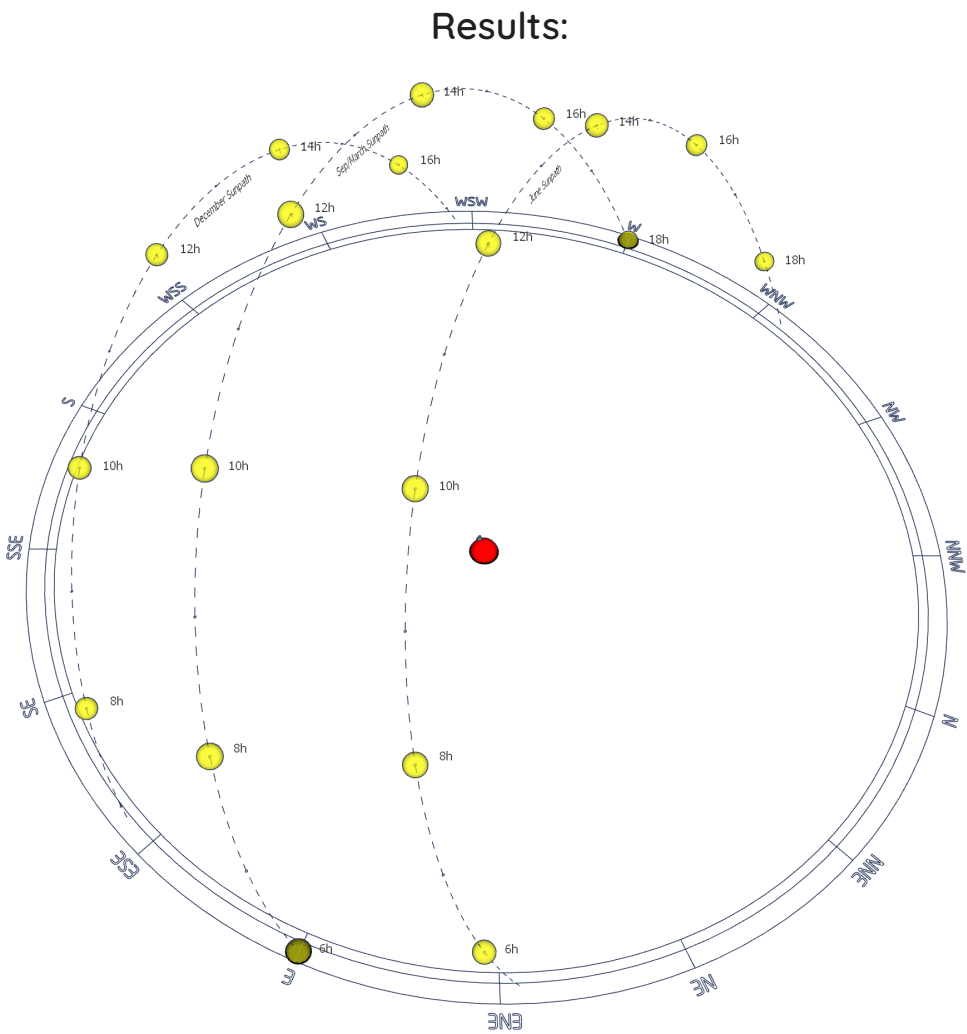
Manually enter latitude and longitude.



Coordinates can be copied directly from Google Maps



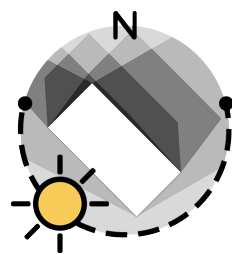
or any map service that provides coordinates (format example: 26.2649, -81.6255).



Once the coordinates are set, Sun Diagram will automatically place the 3D sunpath in your model.
Both methods (From Model or Manual Input) generate the same result.

Additional Notes:

Daylight Saving Time (DST) Support: In countries with seasonal time changes, you can enable DST for more accurate solar analysis.



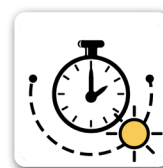
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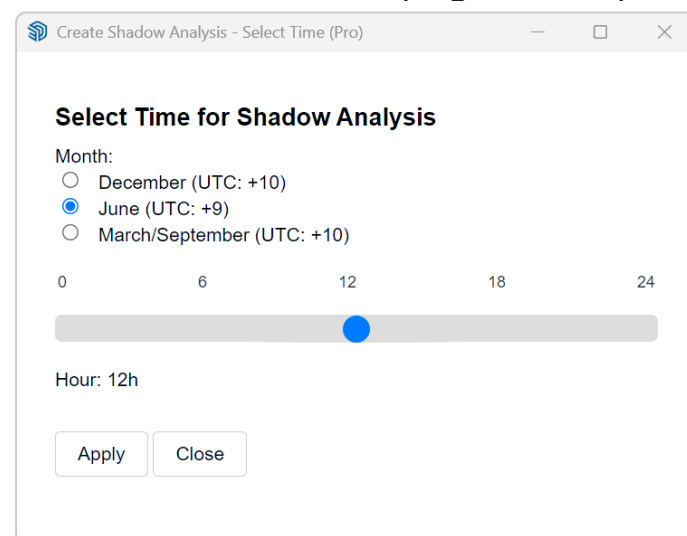
2. Create Shadow Analysis (Feature 2)

Simulate shadows and sun positions instantly for any selected time frame — no more guessing or manual adjustments.

This feature automates your workflow, no need for manual setup.

It also prevents errors caused by constantly switching UTC in regions with Daylight Saving Time (DST).

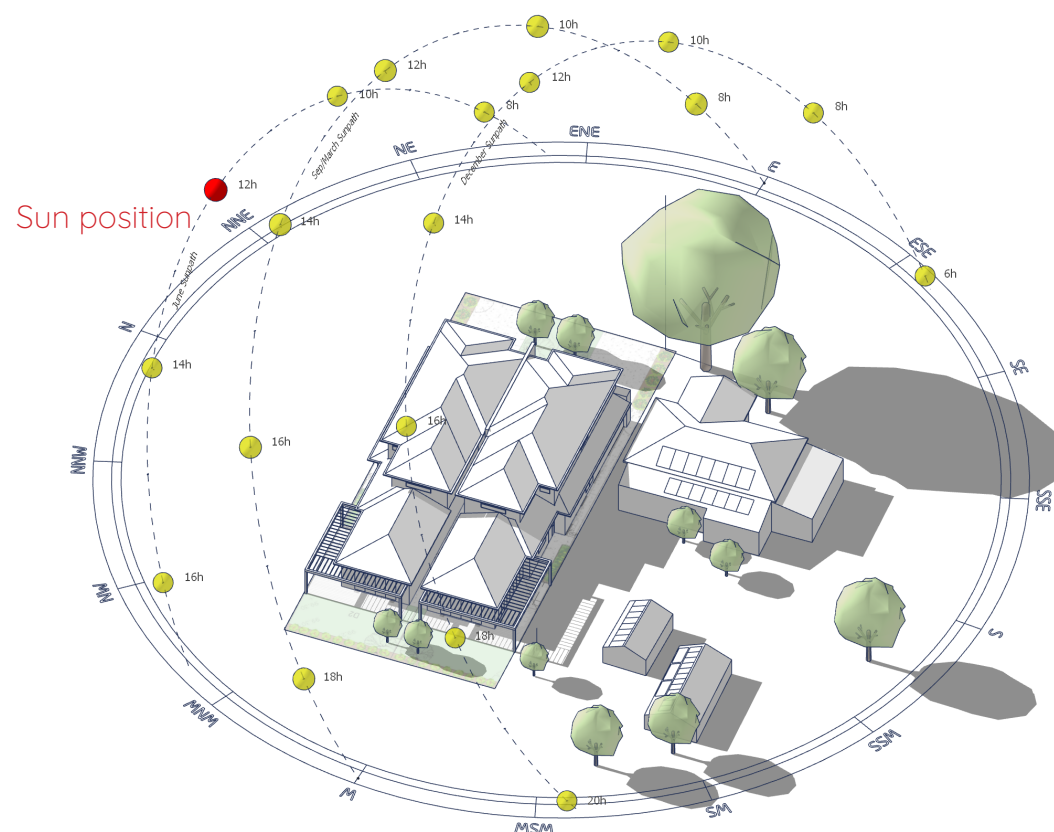
This is the plugin's workspace.



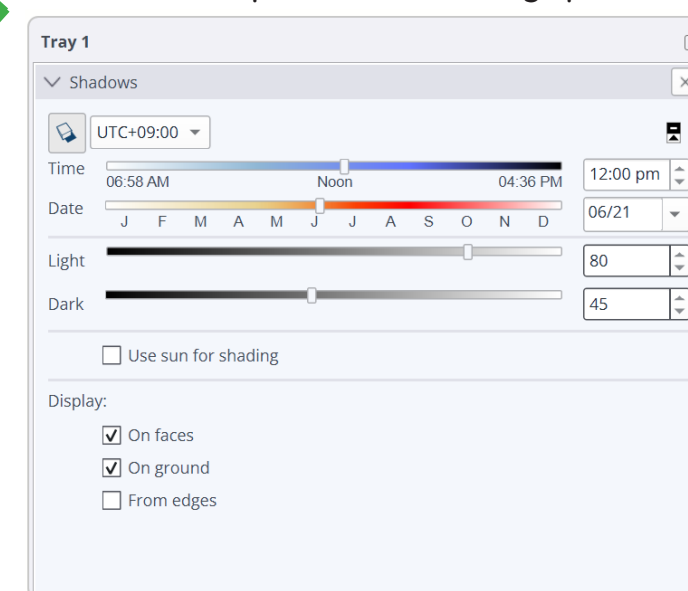
Select the date and time, click **Apply**.
=>The **Sun position** and shadows will update instantly and accurately

No manual setup needed,

because it's already synced with the correct UTC and the selected time from the plugin's workspace



This is SketchUp's Shadow Settings panel



(no manual setup needed here anymore)

For example: in Australia the offset changes — UTC+10 in summer (December) and UTC+9 in winter (June).

The software comes preloaded with 3 **key dates**:

Dec 21st => Winter Solstice (North) / Summer Solstice (South)

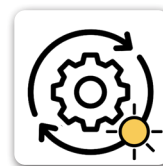
June 21st => Summer Solstice (North) / Winter Solstice (South)

March 21st & Sept 21st => Equinoxes (same for both hemispheres)



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3. Export Shadow Analysis (Feature 3)

Batch export shadow and Sun position images with a single click.

- This is an automated workflow using Feature #2 (Create Shadow Analysis) for any time frames you want to study and export as images.

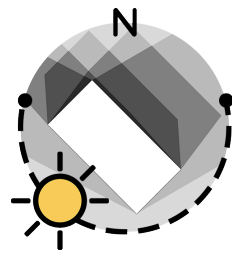
This is the plugin's workspace.



The system will automatically generate all images for you.”

This is the final result.





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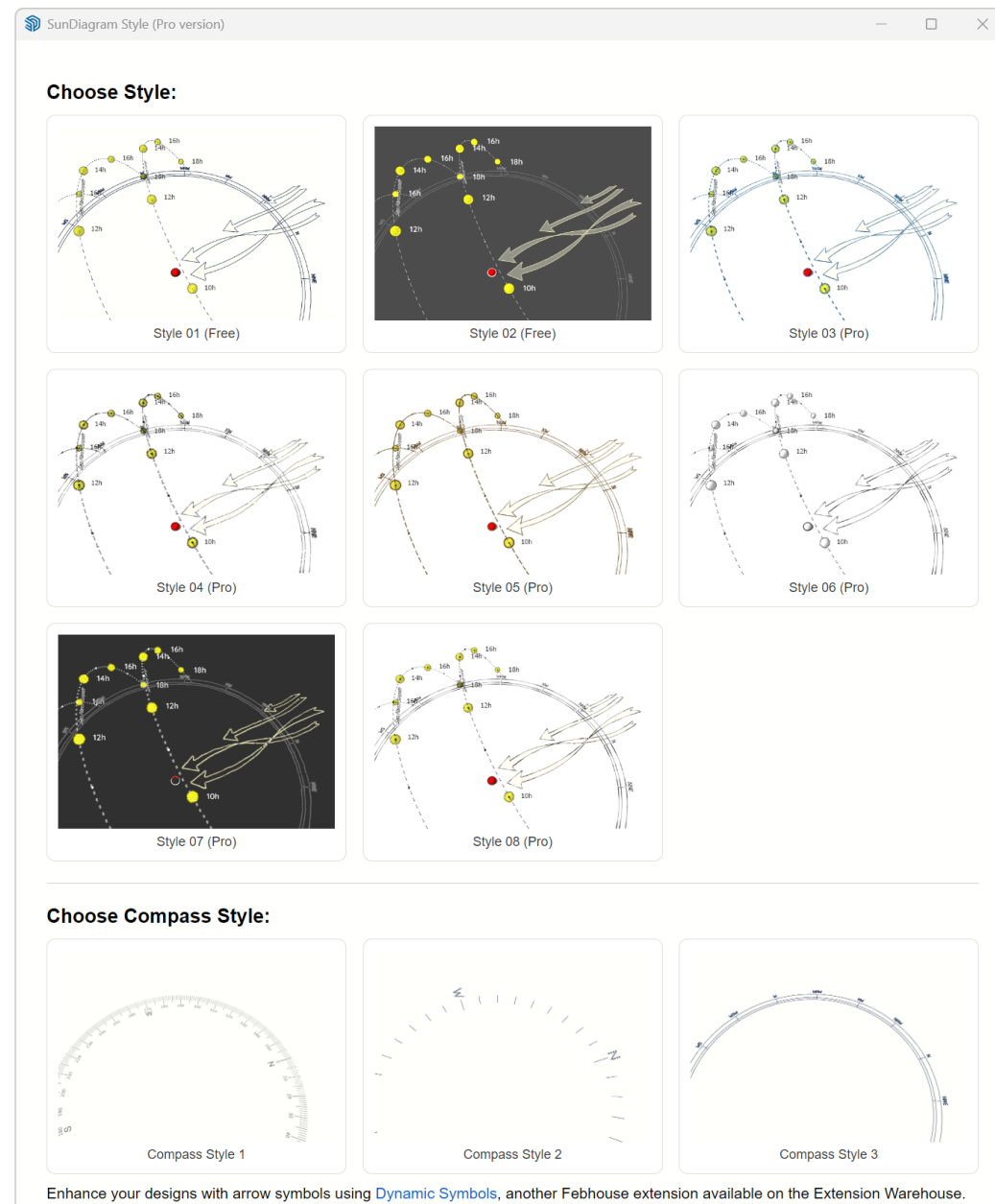


4. Style Library (Feature 4)

- **Find** the perfect style for your project — instantly, with just one click.

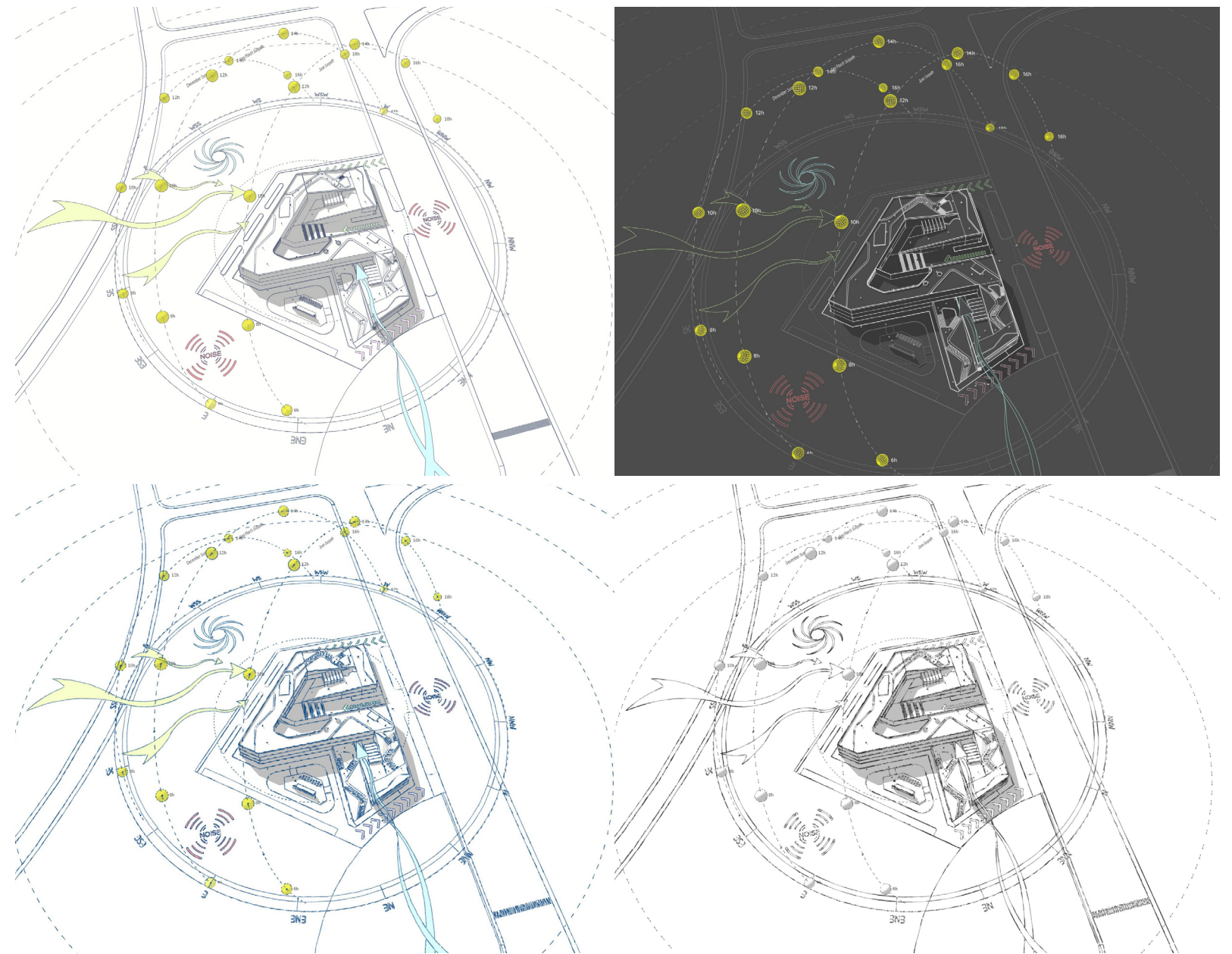
When you **activate** a style, the system will automatically load it into your model and adjust (enable/disable) the Sun Path layers (tags) accordingly.

This is the plugin's workspace.



Includes 8 styles for diagrams and 3 styles for the compass.
The Free version includes 2 clean, beautiful styles that fit most needs.

Samples



New styles are updated regularly. Follow us for the latest updates.