

# The Blender view of the Brain: the standard format for any lead

23 September 2026, night. A proposal from the Blender work on the three test houses. Nothing here has been built for any other property, and nothing is decided until Alan says so.

## What is built automatically for a new property

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One 3D model of the lot and its neighbours, in the same style as the three test houses:

- **the house** as white massing, from its outline and the laser scan's roof;
- **the neighbours** as white massing, without the trees the laser caught on their roofs;
- **the canopy exactly as the Brain measured it**, one crown for each tree the Brain found, in plain green leaves, with the Brain's tops, undersides and footprints;
- **palms** only where something says palm: LaunchPad, a site mark, or the Brain's own label;
- **the ground as a site plan**: LaunchPad's lawn, beds, paving, pool and water in flat colours, and the county lot line.

## From which sources

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All free, all read-only, and nothing is typed in by hand.

- **LaunchPad**: the outlines drawn for the property, including any custom layer.
- **Miami-Dade County**: the lot, the building outlines and the property record.
- **The 2024 United States Geological Survey laser scan**: ground, roof and tree heights.
- **The Brain**, meaning the property's site report: its canopy, sun, drainage, site marks and planting plan.

## How long it takes

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About 10 minutes of machine time on the MacBook, with no one watching it. The Brain must already have read the property.

- The county, laser and LaunchPad bundle takes a few minutes. The first property in a new area also downloads that area's laser tiles once. This step was not timed in the test runs.
- Reading the Brain takes about 3 minutes (167 to 202 seconds for the three houses).
- Building the model and its pictures takes 3 to 4.5 minutes on the processor.

## What it gives

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For the three test houses these already open from the property's row in the registry, under "3D view". A new property would open the same way:

- **an aerial picture** in the afternoon;
- **two pictures from straight above**, at noon and at 4 pm;
- **the Brain against Blender**, side by side on the same ground and at the same scale, with the county lot line on both. This picture shows whether the model agrees with the Brain;
- **the proposed planting**, in an aerial and a plan, when the Brain has a planting plan;
- **Sun 3D on Blender**: the model in the browser, with the date and the hour to move, live shadows and the Brain's sun on the ground. It needs a model file of about 10 to 17 megabytes.

## What it does not try to show yet

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- **The species**: every broadleaf crown is the same green, and palms show only where they are named.
- Small plants and shrubs under the canopy, and plants the Brain did not catch.
- Windows, doors, the real look of fences, and the house's colours.
- **A street view**. At eye level you mostly see the sides and undersides of the crowns, which the Brain does not measure. At two of the three test houses, no spot across the street was clear of the trees.
- **The aerial photo**. It is not used as a picture anywhere.
- Roads and the neighbours' yards.

## Going deeper: the three test houses (1140 NE 87th St, 460 SW 21st Rd, 330 SW 27th Rd)

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The same format, plus what only a visit or more time adds, in order from big to small:

1. **The sun checked against the Brain**: the full sun calculation and its comparison with the Brain, square by square. This is done at 1140, where the beds agree.
2. **Palms named by hand**, in LaunchPad or as site marks. The kit already reads them.
3. **Tree heights measured on site** for two or three trees. They settle whether the Brain's canopy or the laser's is closer to today.
4. **The site visit's capture**: species, photos placed with their direction, hedges, fences, drains and heights.
5. **Species within the canopy**, only after the canopy matches and Alan has seen a good result. Nothing is bought or signed up for before then.
6. A street view, once there is a site photo to check it against. After that, windows, doors and the planting design.