

sampling_locations.svelte + SampleField.svelte — Sampling Locations

The main data collection interface for the Science task. Manages a list of `Sample` objects stored in the `samples` Svelte store.

Sample card

Each sample in the list is rendered as a card with an editable location name field and a set of `SampleField` sub-components. The location name field updates `location_name_check` automatically as the operator types.

SampleField.svelte

A reusable row sub-component used inside each sample card. Renders a checkbox (bound to a `checked` prop), a label, the current value, and a `+` button that opens the relevant modal. Used for: Coordinates, Size, Weight, Image Before, Image After.

Modals

Clicking a `+` button opens a modal specific to that field type:

Coordinates — a single button that calls `invoke("request_coordinates")`, receives a `[lat, lon]` tuple from the rover, formats it as a string, and saves it to the sample.

Measurement — shows two camera feeds (arm + front) in `measure` mode. The operator clicks two corresponding points on the two feeds to trigger a stereo measurement via `invoke("request_measurement")`. The returned value is saved to the sample.

Weight — a single button that calls `invoke("request_weight")` and saves the returned gram value to the sample.

Image Before / Image After — shows all three camera feeds. Clicking any feed calls `invoke("save_snapshot")` which captures a JPEG frame from that stream and saves it to the `images/` directory. The filename is `{sample.label}_{before|after}`.

Pick up Rock

This section is work in progress

A separate overlay accessible from a button at the bottom of the component. Shows all three camera feeds in `pick` mode. The `pick()` function is currently a stub for the rover arm pick-up command.

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