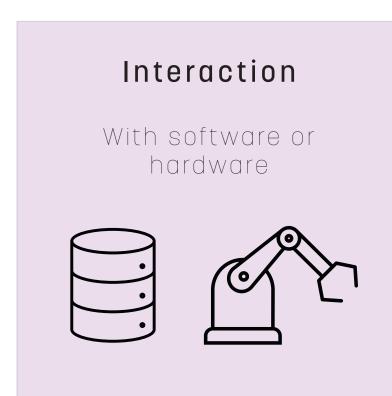
NATURAL LANGUAGE INTERFACES

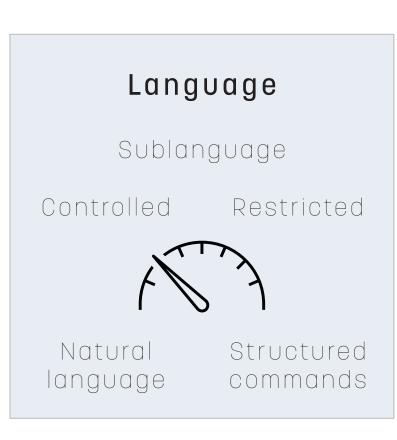
POWERED BY LARGE LANGUAGE MODELS

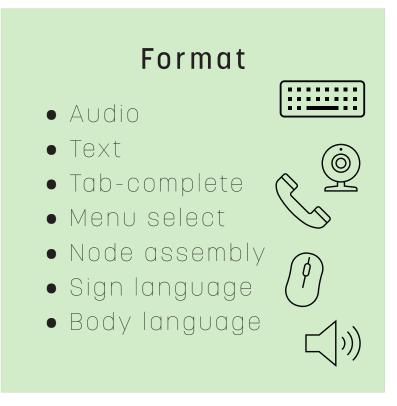
Definition

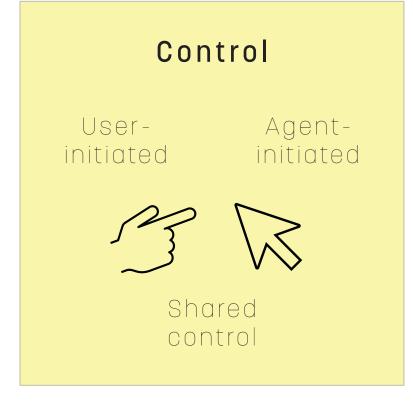
A natural language interface enables a user to achieve goals by interacting with systems in natural language in a variety of formats. Initiated by the user or the system, an interaction might flow like a conversation or be simple input or output, in real time or delayed.

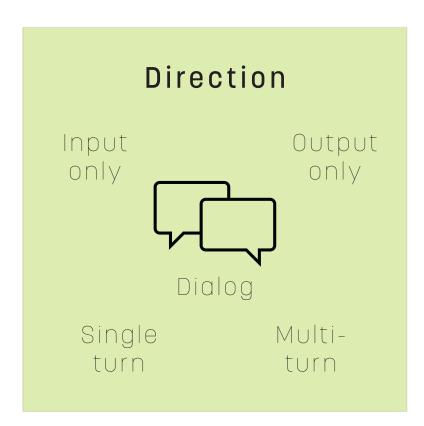






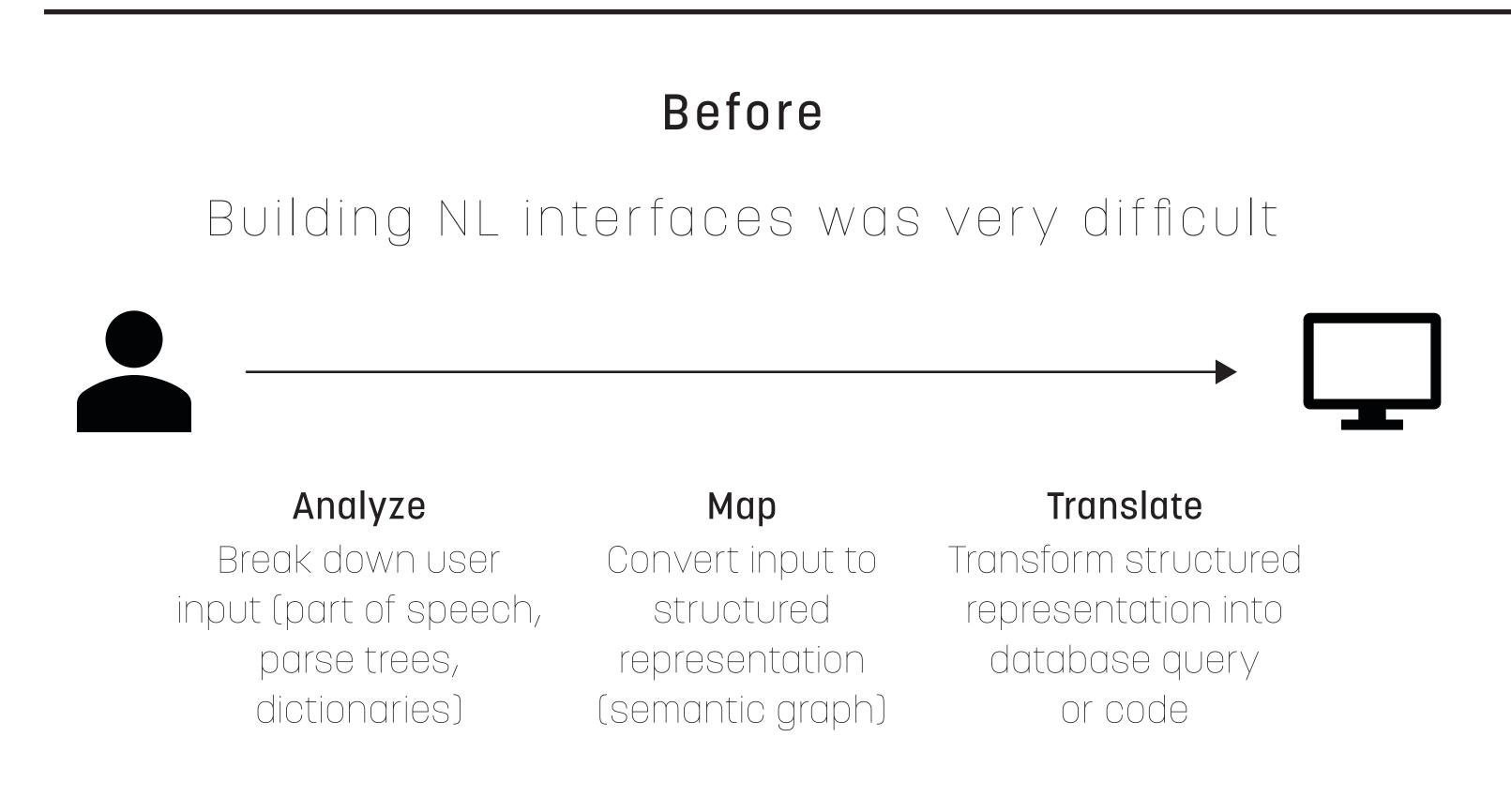


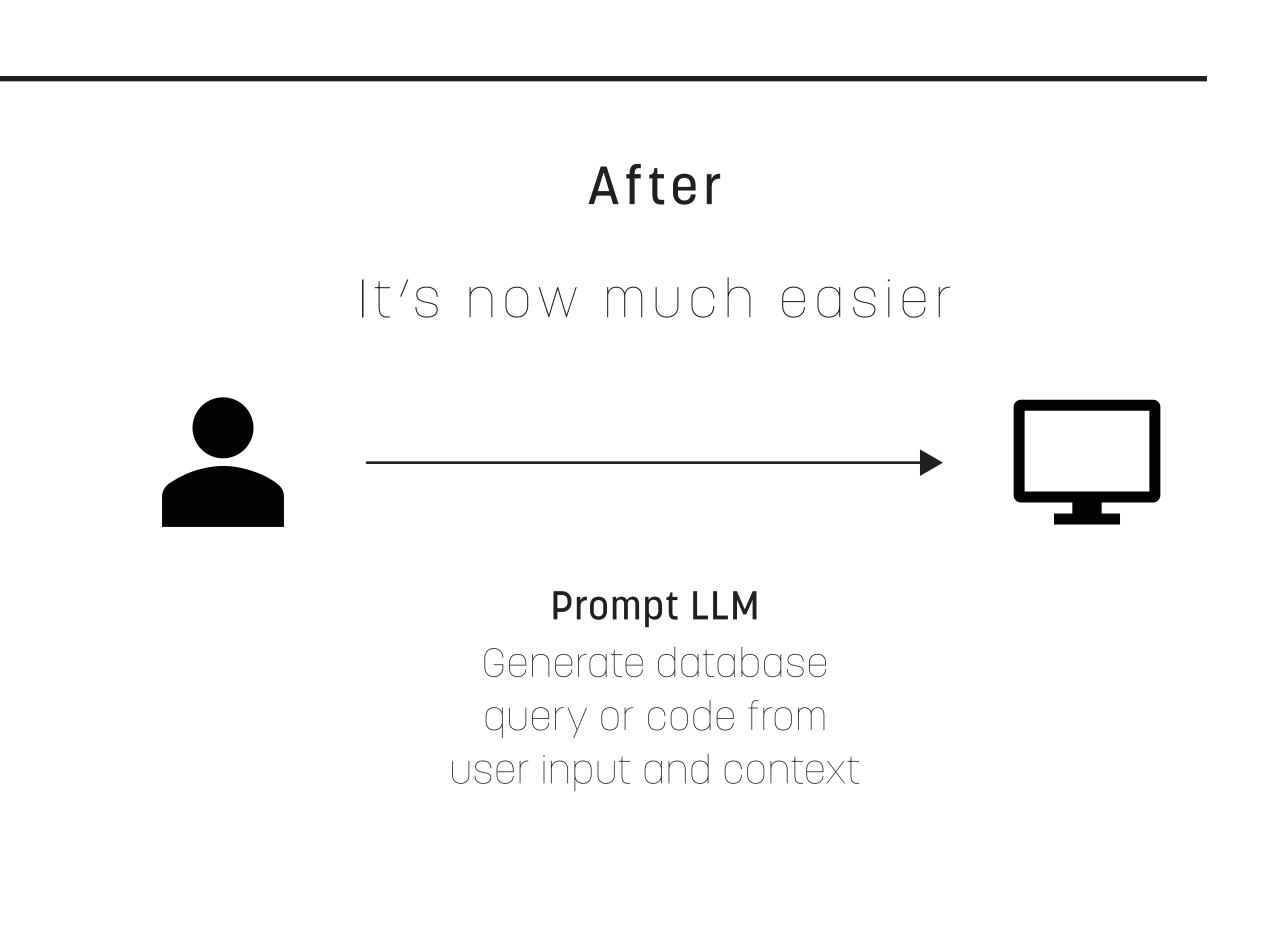






Impact of large language models





Simple, intuitive approach for software applications

Approach

- l. Build GUI elements as usual (eg. buttons, sliders)
- 2. Add NL input method (eg. speech or text)
- 3. Implement NL interaction for each GUI element (eg. "Submit my choice" == **Submit** button click)

Benefits

- GUI elements give users cues about functionality and related interaction. For example, seeing a submit button tells users they control when data is submitted.
- If your GUI design has captured users' needs, an NL interface based on those GUI elements will too.

Sample GUI elements



Sample metadata

Sample prompt

A web interface has the following elements:

Element: accept_terms_cb

Description: Accept terms checkbox.

Indicates terms are accepted.

Element: submit_btn

Description: Submit button. Submits terms acceptance.

Which element is the following message about?

Submit my choice

Element: