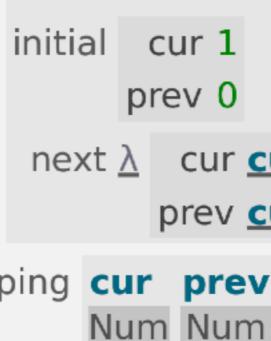
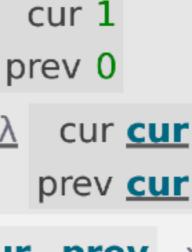
Projectional Syntactic Sugar

fibonacci = map iterate





next λ cur cur + prev mapping **cur prev** → cur

Lamdu displays the "next" function using *light lambda* syntax while the "mapping" function is displayed with plain lambda syntax

Lamdu automatically presents code with syntactic sugars







go fmt

Manual Formatting



Programmers maintain whitespace, deciding how to indent their code, split their lines and pevelopers who use spaces wave more money align function arguments, to make the code readable while fitting the screen width.

A typical C++ code diff. The programmer maintains the spacing manually.

Automatic Layout

- Convenient
- Consistent
- Responsive
- No conflicts

```
factors number bound | = if | bound * bound > number: | number :: | «Stream Empty | elif number % bound == 0: | bound :: | factors (number / bound) | ⇒ bound | factors number | bound bound + 1
```

```
factors number bound =

Num Num

if bound * bound > number:

| number :: | «Stream Empty
elif number % bound == 0:

| bound :: | factors (number / bound)

→ bound
else:

| factors number
bound bound + 1
```



Projectional Syntactic Sugar



Lamdu automatically presents code with syntactic sugars

Lamdu displays the "next" function using light lambda syntax while the "mapping" function is displayed with plain lambda syntax

```
fibonacci = map iterate
                    initial cur 1
                           prev 0
                     next \lambda cur <u>cur</u> + <u>prev</u>
                             prev cur
              mapping cur prev → cur
                         Num Num
```