

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
```

90 fmt

Manual Formatting



Developers Who Use Spaces Make More Money Programmers maintain whitespace, deciding how to indent their code, split their lines and align function arguments, to make the code readable while fitting the screen width.

```
const Rectangle<int> scaled (area * Point<float> (peerBounds.getWidth() / (float) getWidth()
                                                  peerBounds.getHeight() / (float) getHeight()));
                                                                                                       hutududududududu
auto scaled = area * Point<float> (peerBounds.getWidth() / (float) getWidth(),
                                   peerBounds.getHeight() / (float) getHeight());
```

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
                          else:
                                                       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:
 I factors number
  bound bound + 1
```

Than Those Who Use Tabs