

User interfaces: Running Haskell in the browser

User interfaces

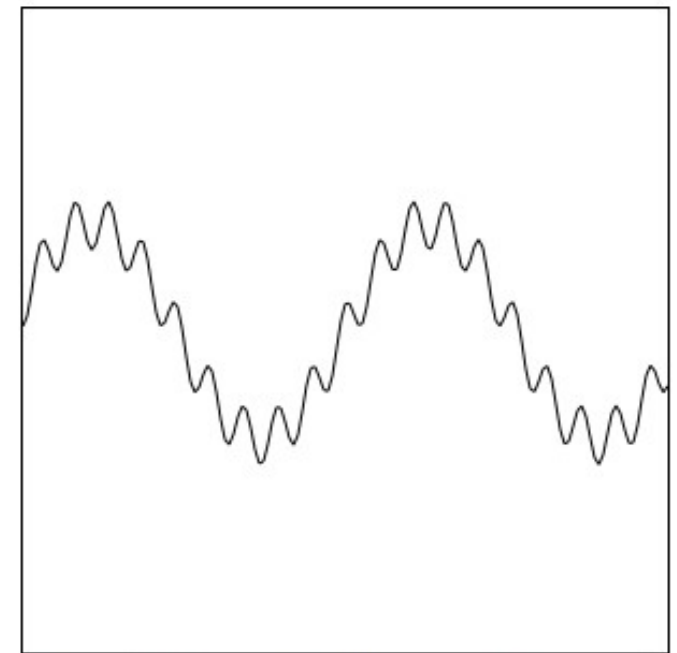
- Programs in the terminal don't scale well
- How to make windows, buttons, graphics, etc. ?
- Several GUI libraries in Haskell:
 - [wxHaskell](#), [Gtk2Hs](#), etc.
- Status: Hard to install reliably across platforms
<http://www.haskell.org/pipermail/haskell-cafe/2013-September/109022.html>
- But things are improving:
 - Changes in GHC 7.8
 - New maintenance of wxHaskell
<http://www.haskell.org/pipermail/haskell-cafe/2013-October/109127.html>

Alternative: Haskell in the web browser

- **Haste** (the choice in this course)
 - Compile Haskell to Javascript
 - Run Haskell *directly in the browser*
 - Developed by Chalmers student Anton Ekblad
- Other Haskell → Javascript options
 - **Fay** (only supports a limited subset of Haskell)
 - **GHCJS** (no official release yet)
- **Threepenny-gui**
 - A small graphical web-server that interacts with Haskell programs

Lab 4

- Part I: Pretty printer and parser for mathematical expressions
- Part II: Draw function graphs in the browser
 - Using Haste



$$f(x) = 2 * \sin x + 0.5 * \cos (10 * x)$$

Draw graph

Haste

See examples on the [Haste page](#)