Welcome to OCaml

OCaml PRO

March 9-13 2015

References

URLs

- http://ocaml.org/
  Community site
- http://caml.inria.fr/
  Core team website.
- http://caml.inria.fr/pub/docs/manual-ocaml/
  Official manual.
- http://try.ocamlpro.com/
  OCaml in the browser.

- http://the-lambda-church.github.io/merlin/
  Auto-completion, live-typechecking (for emacs, vim, and sublime-text).
- http://www.typerex.org/ocp-indent.html
  The universally adopted indenter (CLI tool, emacs, vim, ...).

Books

- Real World OCaml,
  Yaron Minsky, Anil Madhavapeddy, and Jason Hickey, O'Reilly,
  http://realworldocaml.org .
- OCaml from the Very Beginning,
  John Whitington, Coherent Press,
  http://ocaml-book.com/ .
- Developing Applications With OCaml,
  Emmanuel Chailloux, Pascal Manoury, and Bruno Pagano, O'Reilly,
  http://caml.inria.fr/pub/docs/oreilly-book/ .
- The Functional Approach to Programming with Caml,
  Guy Cousineau and Michel Mauny, Cambridge University Press.

- Purely Functional Data Structures,
  Chris Okasaki, Cambridge University Press.

If you're curious

Libraries

Standard libraries:
- JaneStreet's Core
- Batteries
- ExtLib

Stand-alone libraries:
- xmlm, jsonm, yojson (for Web data)
- zarith (arbitrary precision numbers)
- lwt (cooperative concurrency)
- parmap (distributed map & reduce)
- PGOCaml, macaque (typed database queries)
- SPOC (portable GPGPU kernel generation and orchestration)

Some are just libraries, some add syntax extensions.

Projects

Some interesting projects to have a look at:

- Hack, Flow (typed PHP and JavaScript by Facebook)
- Ocsigen (multi-tier web programming)
- OPAM (advanced package manager)
- Liquid soap (audio streaming platform)
- Unison (file synchronizer)
- MirageOS (unikernels over xen or unix)

Where to find the community

- The Caml List.
- The Caml Beginner's List.
- IRC channel: #ocaml on freenode.net.
- O.U.P.S meetings.
- Compiler Hacking Sessions (Cambridge, PAris).
- OCaml Workshop, C.U.F.P., colocated with the ICFP.

See you in the OCaml world