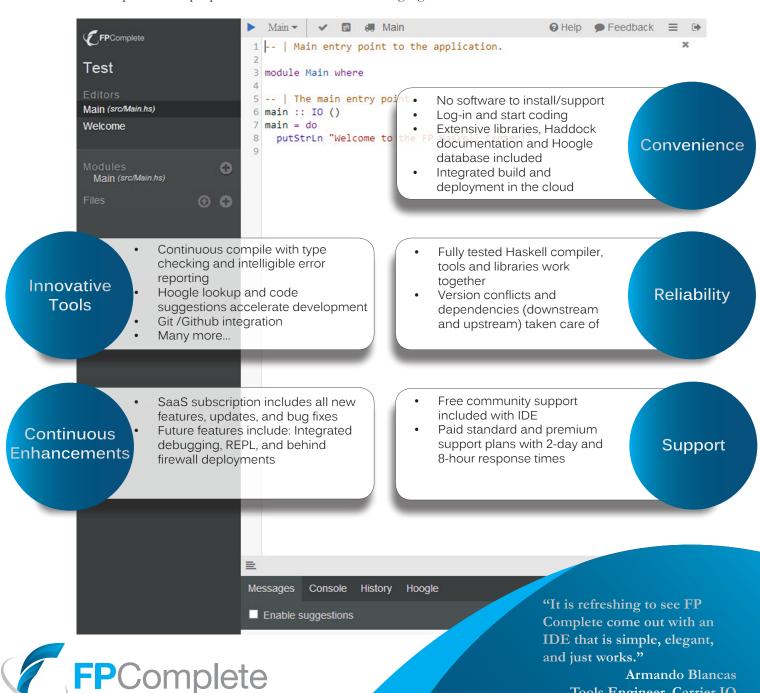
FP Haskell Center™

Enhancing the Haskell Experience

FP Haskell Center is the world's first commercial Haskell IDE and deployment platform. It is designed to enable commercial developers, researchers, students, as well as independent developers from beginners to experts to enjoy the immense capabilities of Haskell in the most intuitive and efficient way. It has a full package of benefits that comes with a commercial product that's reliable, supported and continuously enhanced. These benefits are necessary to make FP Haskell Center the platform of choice for Haskell developers and to propel Haskell into a mainstream language.

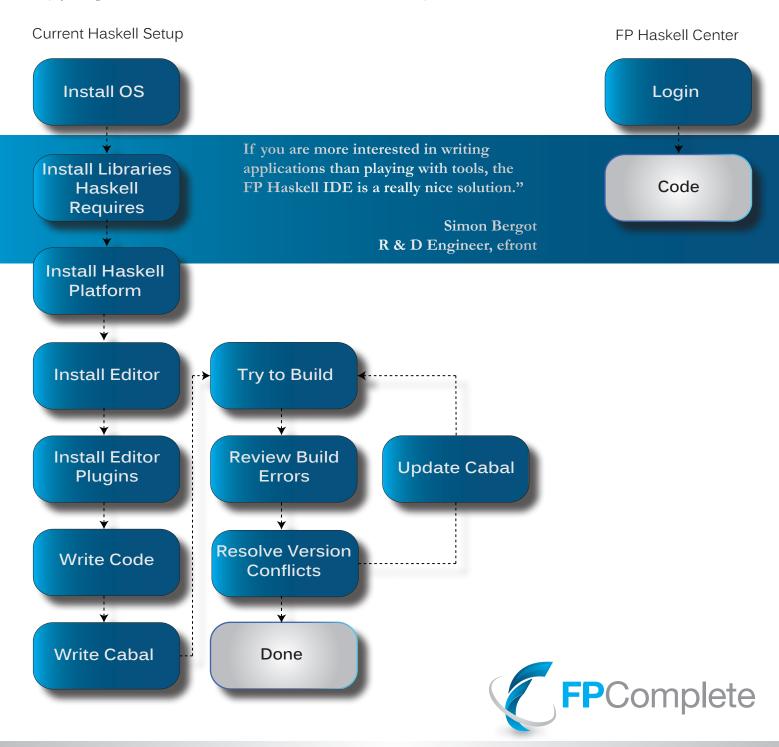


Tools Engineer, Carrier IQ

Turnkey Haskell

Simply Login and Code

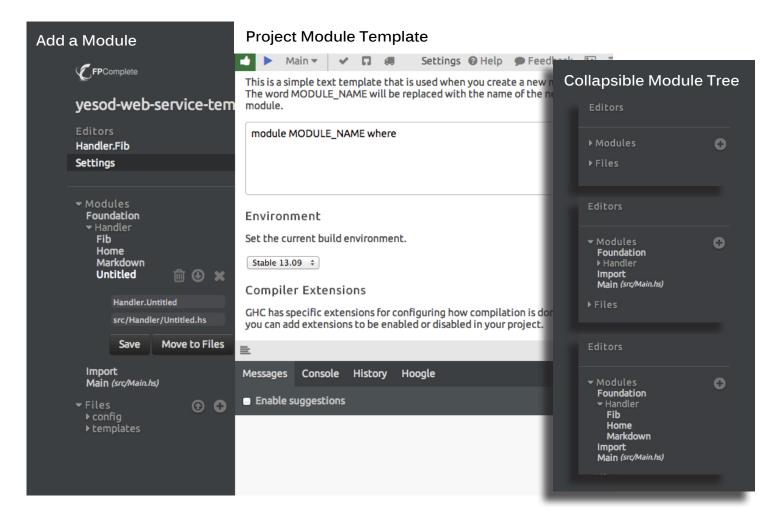
FP Haskell CenterTM makes life easier for Haskell programmers and Haskell more accessible to all. It eliminates the complicated and time-consuming process of getting started and delivers Haskell to you ready to work. Your job is to enjoy the great benefits of Haskell with minimal barriers. Our job is to enable that.



Modules Made Easy

FP Haskell Center™ Module Features

- View projects as a Hierarchy of Haskell Modules. Adding, removing, or moving modules automatically updates the definition of a Haskell project. There are no project files to edit. The IDE gives you GHC's view of the project as a collection of modules, not a collection of files. Modules are imported by their name, not file location.
- Use/import available libraries without first specifying them in the cabal file.
- Add/rename/delete modules and files through drag-and-drop operations.
- Support for multiple main modules and selecting which main is the current target allowing developers to switch between
 production and test builds of projects.
- Uploading/downloading of binary data and source files.
- Convert existing projects into our IDE and see them in module view.
- Module-based editing so you can easily find, import and manage the modules you need when you need them.





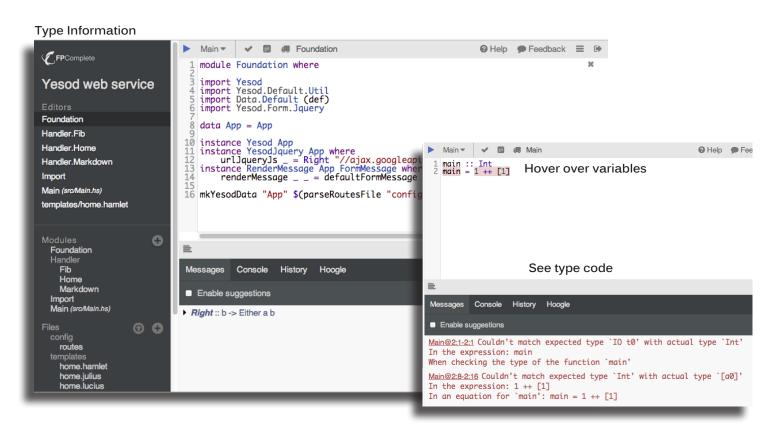
Innovative Tools

FP Haskell Center™ Features

Haskell developers currently need to cobble together mostly open-source or home-grown tools in order to program in Haskell. FP Haskell Center brings all the components you require into one platform with a full-featured Haskell code editor based on the popular codemirror editor. It also supports both console and web-based applications allowing you to switch between the two. Now, for the first time, you can learn, develop, build and deploy in Haskell from one reliable interface. FP Haskell Center saves you a lot of valuable time, energy and effort getting to Haskell so you can focus on using Haskell.

Type Information & Error Messaging

Type information, documentation, and compile time errors at your fingertips. Clear and concise error messages capture code errors and pinpoint their location prior to compiling as you write. Continuous compilation provides live updating of syntax and grammar errors as well as immediate feedback. Hover over variables and see type code.



Tutorials and Code Samples

An interactive learning center rich with tools designed to help you create content as well as tutorials which build and run is embedded directly into the editor. Our tutorials are designed to be useful for a broad class of business applications and to help developers solve common problems. You can build a working application, one that runs as-is, or modified for another. Active code examples and exercises are contributed by both FP Complete and the Haskell community.

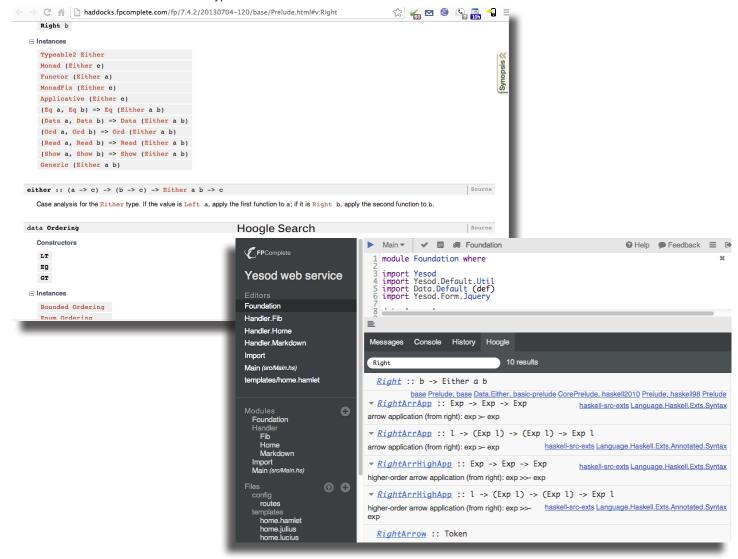


Innovative Tools

Haddocks Documentation and Hoogle Search

Programming aids display important information about identifiers such as definition, Haddocks documentation and Hoogle search for functions and data types. Built-in Hlint and stylish-Haskell make Haskell programs easier to read.

Haddock Information from Line Item Type



Team Management Features

- Team accounts allow developers to share deployment resources and manage users.
- Team Dashboard for managing access control and licenses.
- Shared projects provides fast access to team- shared code and data.
- Online access provides support for distributed and dispersed project teams.
- Screen sharing to enable mentoring.
- Unified billing for all licenses and resources.



Stable Libraries

All developers are familiar with the tedious process of resolving library dependency and version conflicts. Haskell is no exception. Any change in your library set will most likely create a ripple effect of changes downstream and upstream that will require you to spend time and effort to ensure the whole set works as before, until the next change, and on it goes. We eliminate that cycle for you by doing the work ourselves so you can focus on programming.

All libraries within FP Haskell Center are continuously vetted, updated and maintained by our engineers with input from users and Haskell community members.

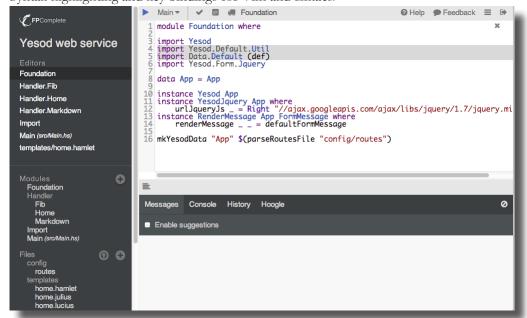
- Includes 400+ and continually growing set of libraries.
- You can import your own libraries.
- Libraries and bug fixes updated on a regular basis.
- Snapshots are taken of each library set and provided as options to users.
- At no point do you have to manually install any packages. System libraries are available, new versions are installed, dependencies and conflicting versions resolved automatically.
- · You can write software without having to worry about rewriting code to stay up-to-date with security and bug fixes.
- ALL packages only have one version, and all build and function with each other.

Recommended Solutions

For your convenience, we have selected some libraries as recommended solutions to specific problem domains. The purpose here is to provide new users with a simple path from "I have a problem" to "I have a solution."

Syntax Highlighting and Key Binding

Syntax highlighting and key bindings for Vim and Emacs.

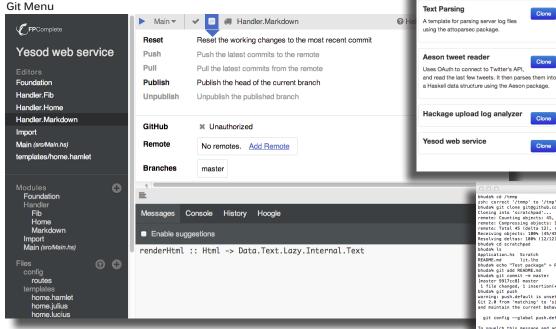




Innovative Tools

Git/GitHub Integration

Tight integration with git and GitHub provides a quick and convenient local code repository. Edited files are automatically saved locally and can be committed to the local repository in two clicks. Users can view the "commit" and restore the repository to a pre-commit state.



Remote Version Control

- Cloned projects from remote version control repositories are analyzed as they are loaded and automatically imported into the FP Haskell Center project management system.
- Changes can be pulled from a remote repository branch including manual module conflicts.
- Remote repository users can push local file and module commits into a selected branch.
- Ability to create / rename / switch between local repository branches.
- Ability to clone, view and modify the project code of publicly shared and published projects providing another means to contribute to the community.
- Published projects can be used as code templates for guiding others through common development tasks.



Git Import

stackage

Title

Use git@github.com:foo/bar.git



Clone a project from GitHub, modify the file, and push it back

Help Menu

Help menu for common items such as recommended libraries, relevant tutorials, code examples and product documentation.



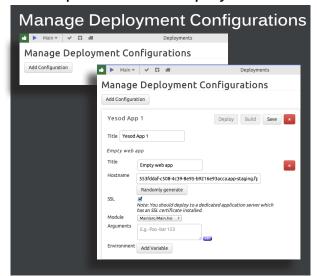
FP Haskell Application Server™

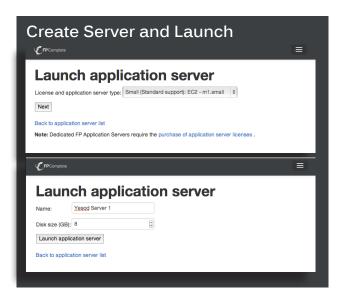
Integrated Application Deployment

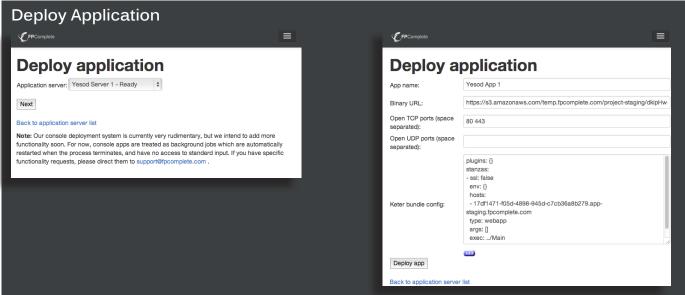
The FP Application Server is a virtual server for deploying Haskell applications developed with FP Haskell CenterTM. It contains everything required for deploying a Haskell-based application into the cloud including a secure application container, required Haskell libraries, operating system, application manager for ensuring the application and support processes are running, control console, and application monitoring.

The FP Application Server works seamlessly with FP Haskell Center to provide a single console where developers can develop, build, and test their application. When ready, they can deploy to a fully functional application server running in the Amazon cloud. Each FP Haskell Center license includes a free, shared FP Application Server instance for testing. Each instance shares an 8-core system and provides 256 MB RAM and 10 GB storage. Dedicated FP Application Servers come in a variety of sizes for supporting small to large scale deployments and includes standard support.

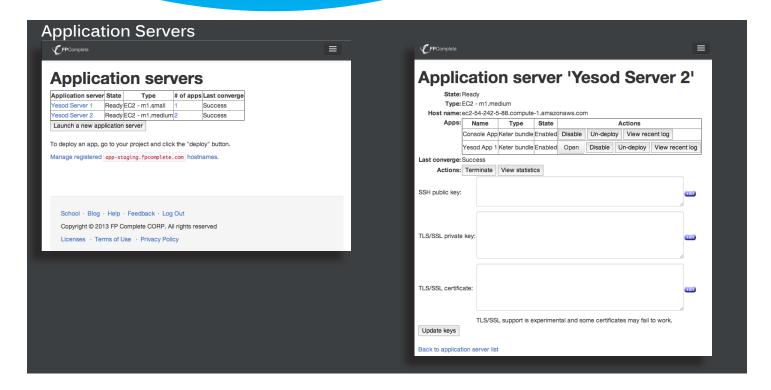
Develop-Build-Test...Deploy







FP Haskell Application Server™



FP Haskell Application Server Features

- Integrated dashboard for managing and running background jobs (daemons), web applications and services.
- Choice of domain, built-in fpcenter.io or user-provided.
- Fully-powered deployment manager that allows viewing and management of deployed apps and servers as well as viewing of logs and statistics.
- Sharing FP Application Servers across team accounts.
- Some future features planned include FP Application Servers behind the firewall and provide real-time performance profiling and postmortem debugging.

Dedicated FP Haskell Application Servers

Dedicated FP Haskell Application Servers are available for a monthly fee. They are installed on EC2 instances at Amazon Web Services. You can configure your servers securely through remote execution tools such as SSH.

EC2 instance	Small	Medium	Large	X Large
ECU	1	2	4	8
Memory (GB)	1.7	3.75	7.5	15
Storage (GB)	1x160	1x410	2x420	4x420

