
Ambly

A ClojureScript REPL into embedded JavaScriptCore on iOS, macOS, and tvOS.

Ambly is a REPL designed for use when developing hybrid ClojureScript / native apps.

Ambly comprises a ClojureScript REPL implementation, along with Objective-C code interfacing JavaScriptCore.

An iOS, macOS and tvOS demo apps are included, making it easy to give the REPL a spin.

```
1 pod "Ambly", "~> 1.11.0"
```

```
[ambly"1.11.0"] @clojars.org
```

Running

Prerequisites

You must have Xcode installed as well as support for CocoaPods. You must have Java 8 or later installed along with the Clojure CLI tools.

Demo iOS and tvOS Apps

In `ambly/ObjectiveC/Ambly Demo` run `pod install`.

Open `Ambly Demo.xcworkspace` in Xcode and run the app in the simulator or on a device.

You'll need to choose a team in the 'Ambly Demo' target settings (and set the Bundle Identifier to something compatible with your team).

▼ Identity

Display Name	<input type="text" value="Ambly Demo"/>
Bundle Identifier	<input type="text" value="ambly.Ambly-Demo"/>
Version	<input type="text" value="1.4.0"/>
Build	<input type="text" value="1"/>

▼ Signing

☒ **Automatically manage signing**
Xcode will create and update profiles, app IDs, and certificates.

Team None

Provisioning Profile Xcode Managed Profile

Signing Certificate iOS Developer

Status ❗ Signing for "Ambly Demo" requires a development team.
Select a development team in the project editor.

Demo macOS App

You can either build the [Ambly Demo CLI](#) project and install it, or download a prebuilt macOS binary from <http://ambly.fikesfarm.com>

REPL

You can start the Ambly REPL by supplying `-re ambly` as an option to `cljs.main`.

Here is a sample REPL startup sequence, illustrating device auto-discovery:

```
1 $ clj -m cljs.main -ro '{:choose-first-discovered false}' -re ambly -r
2
3 Ambly binding to 10.0.1.41 for mDNS.
4
5 [1] Ambly Demo on iPod touch
6 [2] Ambly Demo on iPad
7 [3] Ambly Demo on iPhone Simulator (My-Mac-Pro)
8 [4] Ambly Demo TV on Apple TV
9
10 [R] Refresh
11
12 Choice: 1
13
14 Connecting to Ambly Demo on iPod touch ...
15
16 To quit, type: :cljs/quit
17 cljs.user=> (+ 3 4)
18 7
```

Note: See Connectivity for details, should any networking difficulty arise.

REPL Options

:choose-first-discovered Determines whether the Ambly will attempt to automatically connect the first device discovered. Defaults to **true**.

Example:

```
1 clj -m cljs.main -ro '{:choose-first-discovered false}' -re ambly -r
```

:mdns-bind-address Specifies the address that Ambly binds to when using multicast DNS to search for devices.

```
1 clj -m cljs.main -ro '{:mdns-bind-address "10.0.0.1"}' -re ambly -r
```

App Integration

See Integrating Ambly into Your App for details.

An example using Ambly to drive Ejecta is at ClojureScript Ejecta.

Source for an example iOS app that makes use of Ambly is Shrimp.

License

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