JavaScript Standard Library

for stage 2

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Agenda

- Proposal Status
- Standard Library Namespace
- Immutable APIs

Current Status

Current Proposal:
https://github.com/tc39/proposal-javascript-standard-library

JSL Namespace

How do you import from the JSL?

JSL Module Importing

- Following the same syntax for importing modules *(section 15.2)*
- This uses a *StringLiteral* to denote the *ModuleSpecifier*
- A JSL *ModuleSpecifier* will use the URI format:

  “<prefix>:<modulename>”

- The prefix is used to denote the functional domain of the module

JSL Module Specifier

Example

```
import { CivilDate } from "js:Temporal";
```

Why Module Domains?

- Give developers clear guidance where a module can be used
- Facilitates writing portable JavaScript code

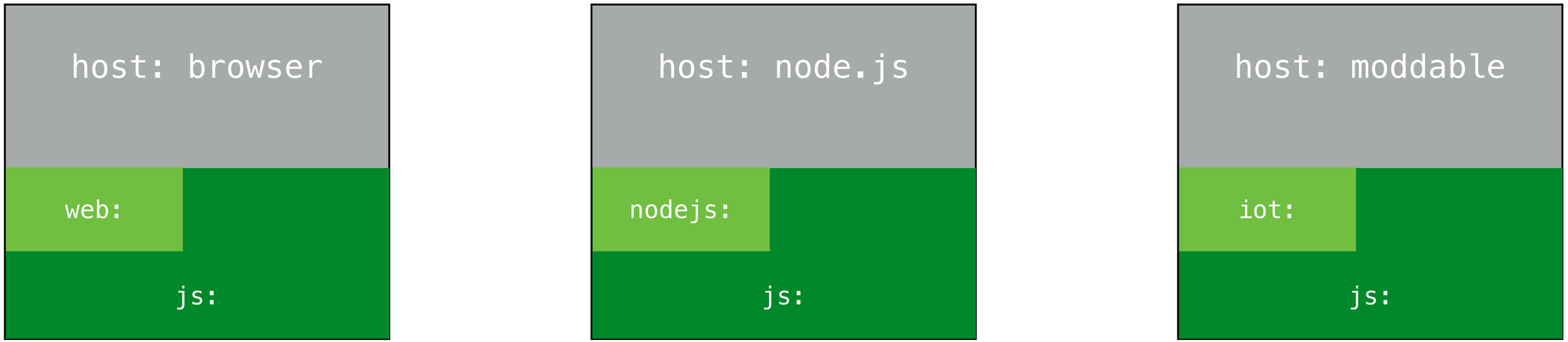
KV Storage Built In Module

Example

```
import { storage } from “web:kv-storage”;
```

Host Specific Prefixes

- Namespace prefixes should split along host environments



Namespaces

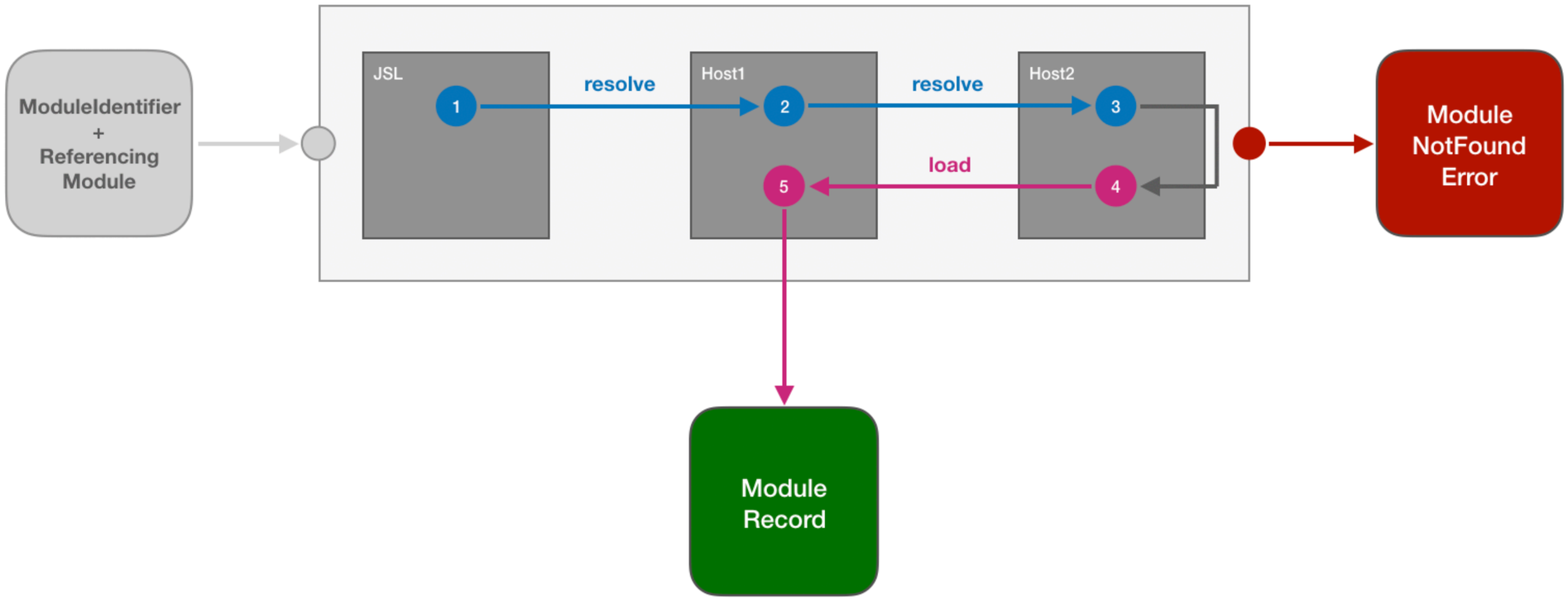
To be registered with IANA

Initial		Future?	
js:	JavaScript Language	iot:	Embedded Devices (TC53)
web:	Web Specific APIs	html:	HTML Apis
nodejs:	Node.js Standard Library	browser:	Browser Plugin API

Module Loading

Chained Loader

Loading Chain



Polyfilling Scenarios

- Add missing modules
- Update incomplete implementations
- Patch broken parts

import-maps should handle these cases

Questions?

Thank you!