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@angular/universal - SSR

2. Universal/Isomorphic code

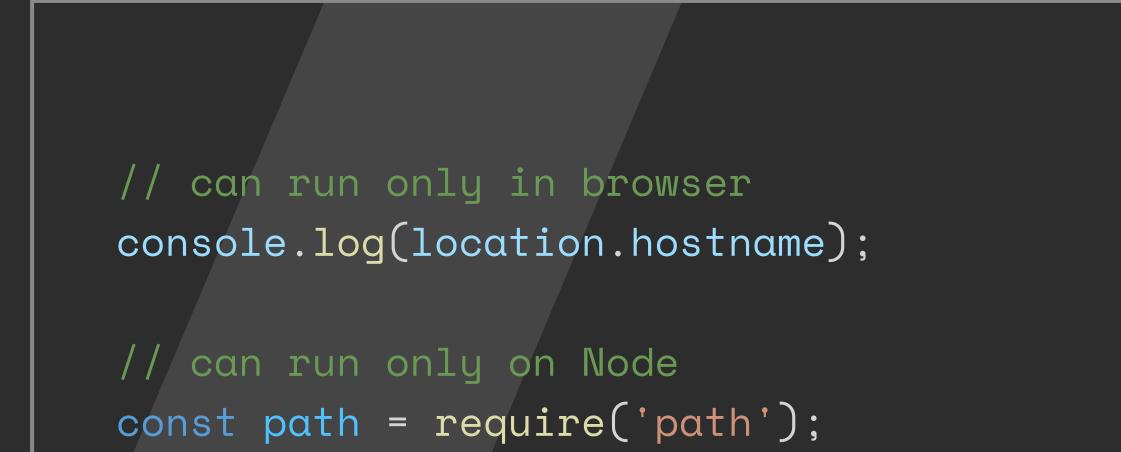
What is Universal/Isomorphic code?

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- Universal or Isomorphic javascript code is code that can run on the browser client side, and on the server node.js side
- Consider the following code example



Not Universal





Universal

```
// only browser will execute this
if (typeof location !== 'undefined') {
   console.log(location.hostname);
}

// only node will execute this
if (typeof require !== 'undefined') {
   const path = require('path');
}
```

Writing Isomorphic code is harder



- Writing Isomorphic code is harder
 - You cannot use api that is only available on one platform without using a condition or a shim
 - you cannot use **location** on node but you can create it on the node side (shim) with specific node logic
 - Instead of a shim you can condition your code to only run the specific api on the right platform and skip it on other platforms
 - The same applies to packages and libraries you install the use specific platform api - you will have to condition the use of those libraries on a specific platform or use shim

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Thank You

Next Lesson: 3. angular platform agnostic