Use cases of Node.js → runtime built on chrome-v8.

- → APIs & servers
- → Databases
- → CLIs
- → Build Tools
- → Automations
- → Basic Scripting
- → CPU shopping bots.

* JS is single threaded.
  (uses event loop).

nvm vs npm

nvm → makes switching between node version easier
nvm → node.js version manager

npm → helps install packages, libraries, plugins, frameworks & applications.

to check the installation location of node

which node

REPL
↳ Run evaluate print loop

<- to check version

node -- version

deno → modern runtime for JS & TS
(nodejs alternative)

module → reusable chunck of code that has its own context.

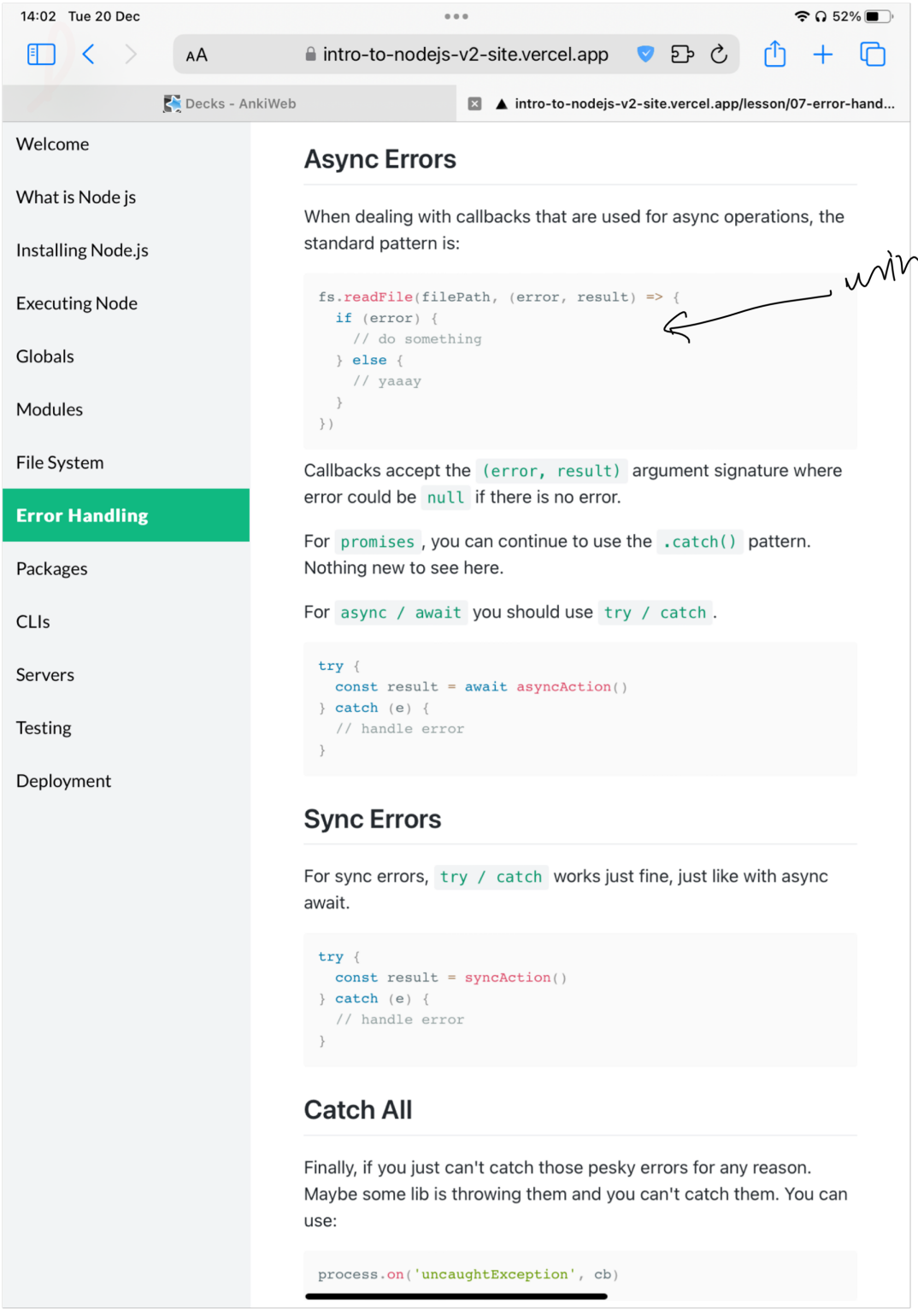
.mjs is used for ECMA script module exports.

instead of using .mjs everytime just do some changes to package.json.

instead of callback we use promises.

if a func returns promises we can use await.

Error Handling



* be good with error handling.

? Does python have threads??

Creating local packages & npm

with package.json we convert our app into a package.

don't use npm & yarn in same project.

Now npm is better than yarn.

use node server for small tasks, basically CRUD APIs.

express → framework for building server

middleware

↳ (function between what you want to do with requests & when it came in)

can manipulate, inspect etc. before sending it off to other middleware or controller.

Testing with Node.js

→ One of the most common usecases for Node.js is writing tests for Node.js & frontend apps.

Unit test

Test a little chunck of code.
(function)

vanilla unit tests can be written with assert.

we use Jest to test JS scripts. it provides better clarity and easier to use.