The JavaScript engine parses the source code and turns it into an Abstract Syntax Tree (AST). Based on that AST, the interpreter can start to do its thing and produce bytecode. Great! At that point the engine is actually running the JavaScript code. (Mathias, 2018)

![Diagram

Description automatically generated]()

There are two phases to parsing which are:

Eager (full-parse) - this parses each line right away

Lazy (pre-parse)- do the bare minimum, parse what we need and leave the rest until later

Which is better? It all depends. (Ryan, 2019)

![A picture containing application

Description automatically generated]()

# References

Mathias. (2018, June 14). *shapes-ics*. Retrieved from mathiasbynens: https://mathiasbynens.be/notes/shapes-ics

Ryan, P. (2019, October 10). *The V8 Engine and JavaScript Optimization Tips*. Retrieved from digitalocean: https://www.digitalocean.com/community/tutorials/js-v8-engine