Lexer

Parser

Lexical analysis aka tokenizing

Takes the tokens and using language grammar determines the structure of the input

This representation is called the AST

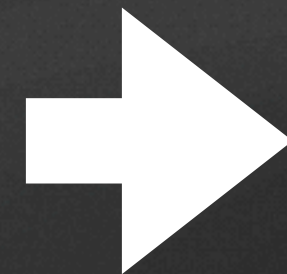# Lexer / Parser

```
html
  body
    h1 Title
```

Code

➡️

```json
{
  "source": "basic.pug",
  "name": "html",
  "type": "tag",
  "lineNumber": 1,
  "children": [
    {
      "source": "basic.pug",
      "name": "body",
      "type": "tag",
      "lineNumber": 2,
      "children": [
        {
          "source": "basic.pug",
          "name": "h1",
          "type": "tag",
          "val": "Title",
          "lineNumber": 3
```

AST