when debugging, it’s easy to get lost — even in your **OWN CODE**.

**MOTIVATION:** Code is complex. When tackling difficult problems, clean code can make efficiency skyrocket.

However, writing clean solutions is easier said than done. It’s a challenging problem, but the ability to parse and visualize arbitrary code would have immense payoffs for programmers of all skill levels.

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**turn this...**

```javascript
function reverseList(head) {
    node prev = null;
    node next;
    while (head != null) {
        next = head.next;
        curr.next = prev;
        prev = curr;
        curr = next;
    }
    return head;
}
```

**...into THIS.**

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**APPROACH**

- **LIVE PARSER** for JavaScript
- **CUSTOM API** for code visualization
- **INTERACTIVE** animation
- **STEP-BY-STEP** D3 visualization

**FUTURE WORK**

- **MAPS, GRAPHS** and **TREES**
- **JAVA/C++/PYTHON** syntax
- **NESTED** data type support
- **robust ERROR HANDLING**

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**THE API**

- **VArray**
  - `add(val)`
  - `remove(i)`
  - `get(i)`
  - `set(i, val)`

- **VStack**
  - `push(val)`
  - `pop()`

- **VQueue**
  - `push(val)`
  - `pop()`

- **VLinked**
  - `setNext(node, next)`
  - `val(node, val)`
  - `getHead()`
  - `point(ptr, node)`

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*Conjure* is a code visualization project by *Grace Kwan* and *Phil Chen*.