Vocab/Grammar

- A name or a variable is a sequence of characters, not including a space or one of the following: ",'`()[]{} |; #:
- A *primitive* is something that is assigned meaning, like math functions
- A *variable* is a name without pre-assigned meaning
- A *value* is one of : number, symbol
- A *number* is a real number.
- A *symbol* is ' followed by a sequence of characters

The rest of the core grammar is as follows

Scoping

- (define (variable v2 ...) expr) binds v2 in expr and does not bind variable in expression and only binds variable for all top level forms below the define
- (define variable expr) variable is bound in all top-level forms below the define and variable is not bound in expr

Semantics

- (define (variable v2 ...) expr) defines a function of parameters v2 ... with the body expr
- (define variable expr) defines a constant with the value
- (reachable func) takes a func and print all the reachable names from the given function application
- (reachable? func name) returns 1 if you can reach the name from this function, else 0.
- (path-to expr variable) prints the constraints to the given name.