

# Languages-beta: SL-Start

The P<sub>L</sub>anCompS Project

Languages-beta/SL/SL-Start/SL-Start.cbs\*

*Language* “SL”

[ 1 Lexemes  
2 Expressions  
3 Statements  
4 Function definitions  
A Disambiguation ]

*Syntax*  $START : \text{start} ::= \text{program}$

*Semantics*  $\text{start} \llbracket START : \text{start} \rrbracket : \Rightarrow \text{null-type}$

*Rule*  $\text{start} \llbracket Program \rrbracket =$   
    initialise-binding initialise-storing initialise-giving finalise-abrupting  $\text{run} \llbracket Program \rrbracket$

*Syntax*  $Program : \text{program} ::= \text{fun-def}^*$

*Semantics*  $\text{run} \llbracket Program : \text{program} \rrbracket : \Rightarrow \text{null-type}$

*Rule*  $\text{run} \llbracket FunDef^* \rrbracket =$   
    scope(initialise-global-bindings,  
        sequential(override-global-bindings( $\text{declare} \llbracket FunDef^* \rrbracket$ )),  
        apply(fun global-bound “main”,  
            nil)))

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\*Suggestions for improvement: [plancomps@gmail.com](mailto:plancomps@gmail.com).  
Issues: <https://github.com/plancomps/CBS-beta/issues>.