Understanding and designing a programming language Xavier Rosado				January 20, 2021
 Programming languages are the core tools of all software engineer/developers who build digital infrastructure. The variety of language between them can be daunting for beginner developers to get accustomed to; sometimes even one language can have large inconsistencies with it's own vocabulary and implementation. Many developers are not aware of languages internals, leaving the language as a "magical" black box. Big programming languages can leave holes in a beginners learning, as they take some features at face value and fail to comprehend their function 		 Work on a small language, giving basic functionalities that can help developers limit the scope of design and later broaden the scope of the project. Build on existing stacks like LLVM to avoid time constraint related difficulties while still allowing development and flexibility. Focus on the language as a learning tool, following in the footsteps of older languages such as BASIC. Use a statically typed language to focus on correctness and types when compiling, giving better insight into the internals of languages. 		
 Use a and LLVM to design a small, limited programming learning and sensible syntax, and the language should have a concise and sensible syntax, and the learning of compilers/interpreters, as well as contributed and performance. 	s well as vocabulary. with a languages internals, and later promote			
Languages grow over time, and maintaining standards acreating strange patterns and inconsistencies in itself.		Check/Evaluate Check if the language is capable of being used in a learning environment while being concise. If the language is capable of being used in a learning environment while being concise. If the language doesn't meet basic requirements, evaluate if it's related to the tech stack or the limitedness of the language's design.		
 Many general-purpose languages also try to cover many u where inexperienced developers can perceive it as larger to language as increasingly difficult. Beginner developers are exposed to such a big ecosystem to writing style/standard to follow 	han life, feeding into the idea of working on a	Act/Standardize • Continue to build on the etc) while not losing	the intuitiven	implementing modern language features (generics, lambdas, less of the core language. e used on various systems and isn't limited to one