

# LegendOfBluespec

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## 1 11 / 1 / 2021

I found a bug in bluespec reference guide xs Official pdf On page 30 method proto has  $(methodProtoFormals)$  and it should have  $[(methodProtoFormals)]$  otherwise you can't declare method without any round brackets like it's done in IntStack example bellow as theirs nontaion assume  $[]$  as zero or more.

### 1.1 Lark grammar

I implemented grammar for parsing interfaces declatations written in bluespec (without support for subinteraces) and parsing for Interfaces results of command Bluetcl type full *Nameofinterface*

## 2 11/ 2 / 2021

I added grammar for parsing functions creating modules this way one can read what modules can be created how they need to be initiazlied and what interfaces they have.

## 3 11 / 3 / 2021

I added more text to main.tex about toolchains and a more detailed plan for structure of the library. I also added a openALL.bat file, that is for me to make opening useful pdfs easier.

## 4 11/ 3-10 /2021

I worked on grammar and now grammar is capable of parsing almost all features of bluespec that are exposed trough defs type and defs funcs

## **5   11/ 11 / 2021**

I'm capable of paring Interfaces (without subinterfaces), types and few other things like enums, there are some things left that I'm currently not parsing but I decided to move them for later as they are not currently needed and I'm not sure if I'll need them, I will prioritize for now support for JSON and generating bluespec.

## **6   11/ 17 / 2021**

I added simple bluespec generation and worked on integrating it with the toolchain. First bsv file was produced.

## **7   11 / 27 / 2021**

Work has been done on checking typeclass membership, there are some bugs to iron out but for simple typeclasses like toPut and toGet it should work.