



Lab Lexer-3

Antlr

Lexer form

```
/** Optional javadoc style comment */
[parser|lexer] grammar Name; // indicate `parser` or `lexer`
options {...}
import ... ;

tokens {...}
channels {...} // lexer only
@actionName {...}

ruleName1 : alternative1 | ... | alternativeN ; // parser and lexer rules, possibly intermingled
...
ruleNameN : alternative1 | ... | alternativeN ;
```

- only lexer grammars can contain `mode` specifications and `custom channels`

```
channels {
    WHITESPACE_CHANNEL,
    COMMENTS_CHANNEL
}
WS : [ \r\t\n]+ -> channel(WHITESPACE_CHANNEL) ;
```

Useful lexer rules

Tokens Section

```
tokens { Token1, ..., TokenN }
```

Actions

Named Actions

`header` and `members`

Modes

```
rules in default mode
...
mode MODE1;
rules in MODE1
...
mode MODEN;
rules in MODEN
...
```

Commands

- skip
- more
- popMode
- mode(x)
- pushMode(x)
- type(x)
- channel(x)