

Manual Técnico

Patrón

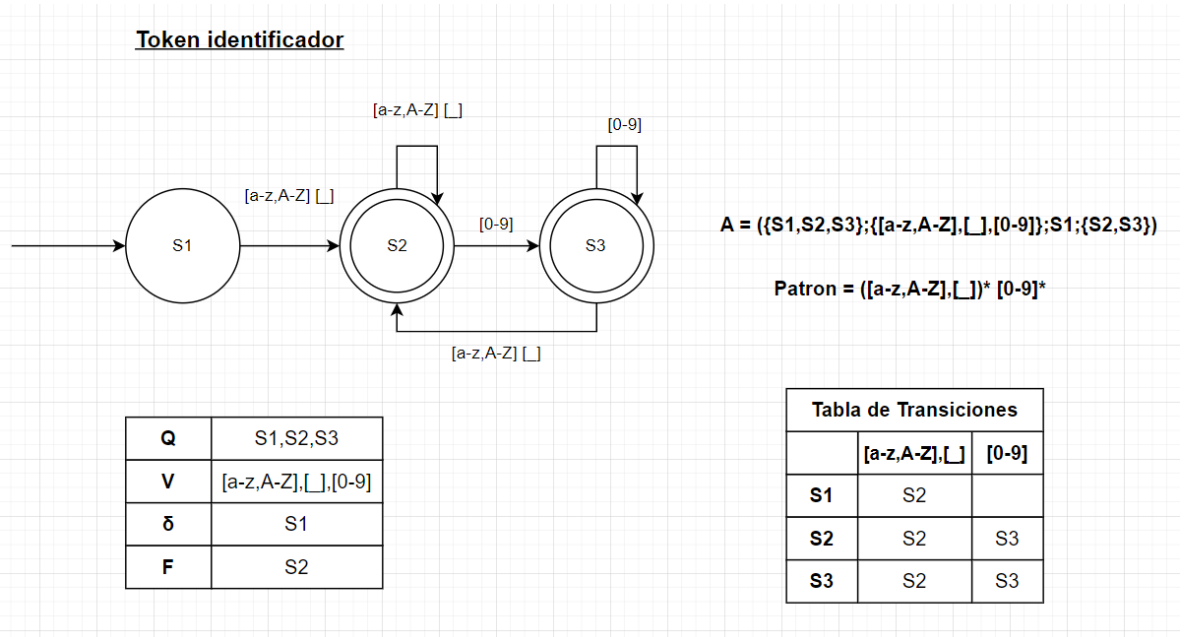
Una tabla que contiene todo tipo de token respecto a su lexema, y para identificarlo se usa expresiones regulares.

Token(Componente Léxico)	Lexema	Patrón
identificador	a,valor,b	[a-z,A-Z],[_] (0-9)
Constante número	5,3,25,56	[0-9]+(\.[0-9]+)?
Aritmeticos	a+9,5+1	[a-z,A-Z]*[0-9]+[+,-,*,**/,/,/,%]
Comparacion	a = 2	[a-z,A-Z]*[0-9]+[==,!=,>,<,>=,<=]
Logicos	b and 9	[a-z,A-Z]*[0-9]+[and,or,not]
Asignacion	C=5	[a-z,A-Z]*[0-9]+[=]
Palabras clave	class a19	[a-z,A-Z]*[Palabras reservadas]+
Constantes	(1.0), true, (" " ")	[a-z,A-Z]*[0-9]+[,.(,boolean,"" ,""]
Comentario	#comentario	[#comentario]+[a-z,A-Z]*[0-9]
Otros	ab;	[a-z,A-Z]*[0-9]+[(,){,[, , ,:,:]

Diagramas de estados

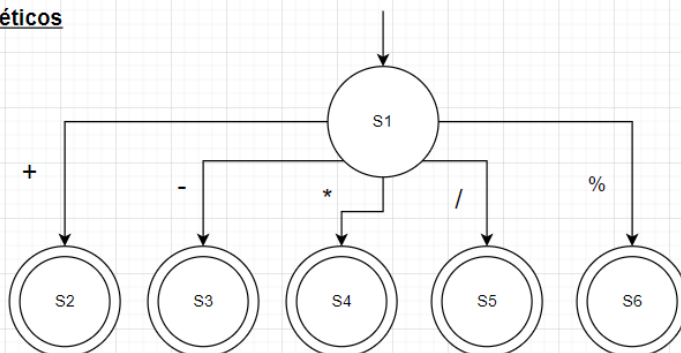
En esta parte se los estados de transición de cada token.

Token Identificador



Token Aritméticos

Token Aritméticos



$A = (\{S1, S2, S3, S4, S5, S6\}; \{+, -, *, /, \%\}; S1; \{S2, S3, S4, S5, S6\})$

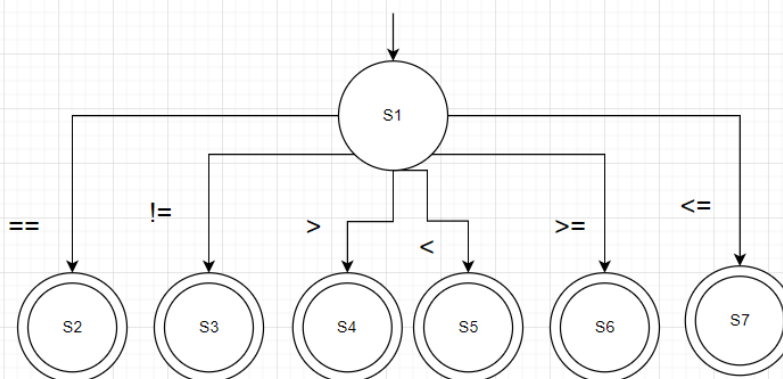
Patron = $(+|-|*|/|\%)$

Q	S1,S2,S3,S4,S5,S6
V	[+, -, *, /, %]
δ	S1
F	S2,S3,S4,S5,S6

Tabla de Transiciones					
	+	-	*	/	%
S1	S2	S3	S4	S5	S6

Token Comparación

Token Comparación



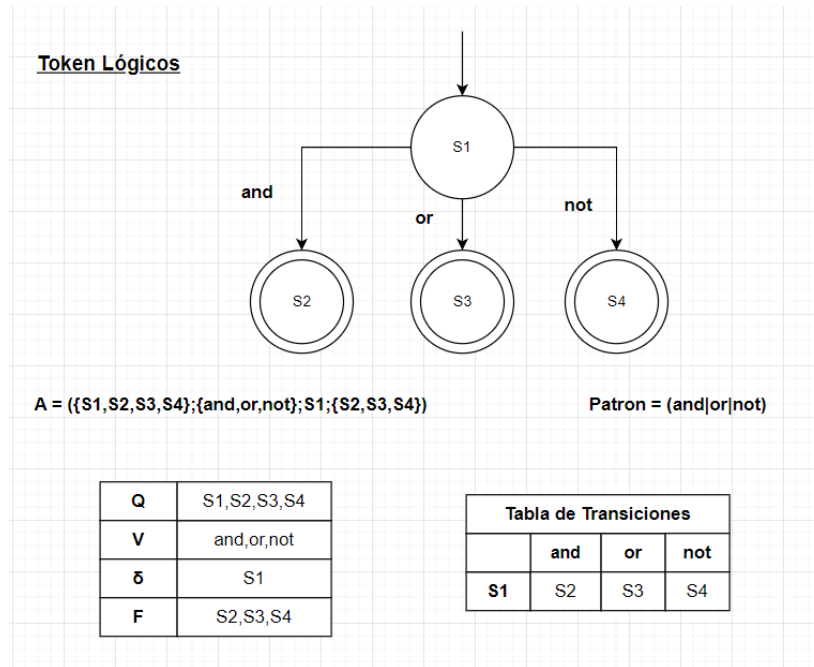
$A = (\{S1, S2, S3, S4, S5\}; \{=, !, >, <\}; S1; \{S2, S3, S4, S5\})$

Patron = $(==|!=|>|<|>=|<=)$

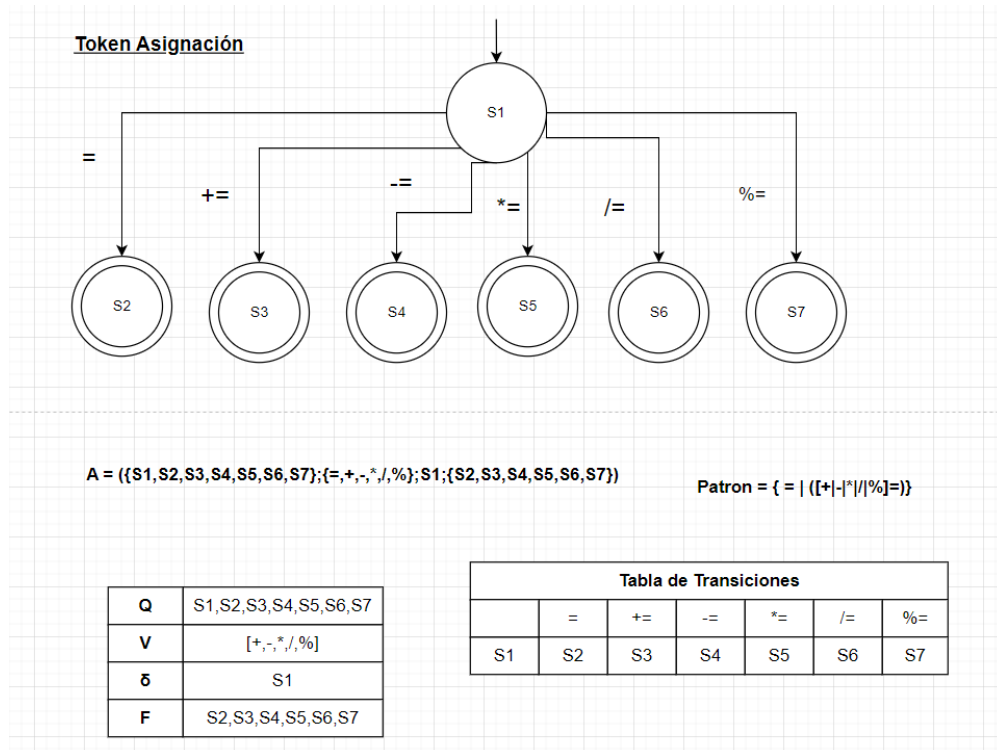
Q	S1,S2,S3,S4,S5,S6,S7,S8
V	[=, !=, >, <, >=, <=]
δ	S1
F	S2,S3,S4,S5,S6,S7,S8

Tabla de Transiciones						
	==	!=	>	<	>=	<=
S1	S2	S3	S4	S5	S6	S7

Token Lógicos

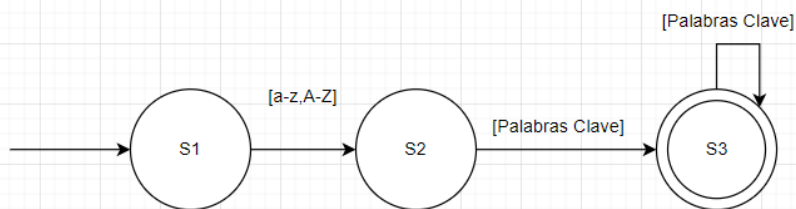


Token Asignación



Token Palabras Clave

Token palabras clave



Palabras Clave

as, assert, break, class, continue, def, del, elif, else, except, False, finally, for, from, global, if, import, in, is, lambda, None, nonlocal, pass, raise, return, True, try, while, with, yield

$A = (\{S1, S2, S3\}; \{[a-z, A-Z], [Palabras Clave]\}; S1; S3)$

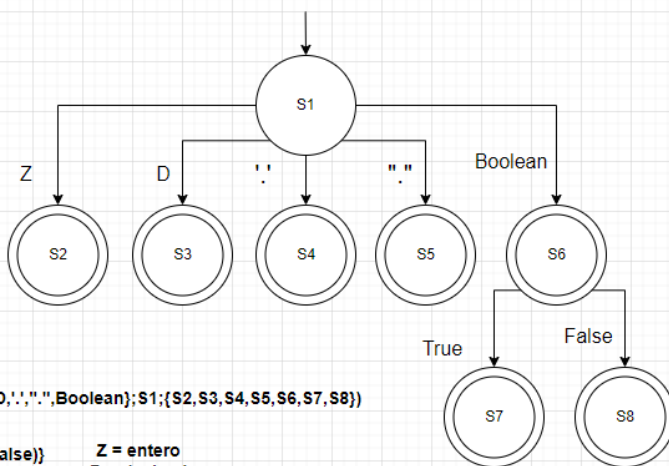
Patron = $([a-z, A-Z], [Palabras Clave])$

Q	S1, S2, S3
V	[a-z, A-Z], [Palabras Clave]
δ	S1
F	S3

Tabla de Transiciones		
	[a-z, A-Z], []	Palabras Clave
S1	S2	
S2		S3
S3		S3

Token Constantes

Token Constante



$A = (\{S1, S2, S3, S4, S5, S6, S7, S8\}; \{Z, D, '.', '"', Boolean\}; S1; \{S2, S3, S4, S5, S6, S7, S8\})$

Patron = $\{Z|D|'.'|'"'|Boolean(true|false)\}$

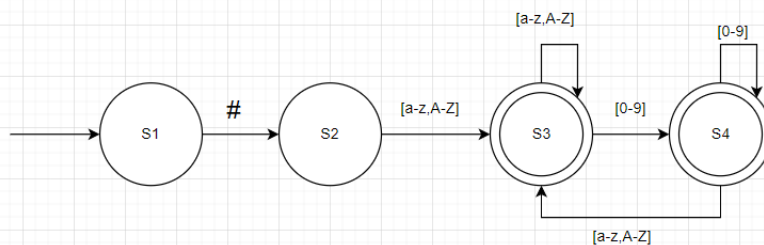
Z = entero
D = decimal

Q	S1, S2, S3, S4, S5, S6, S7, S8
V	[Z, D, '.', '"', Boolean, true, false]
δ	S1
F	S2, S3, S4, S5, S6, S7, S8

Tabla de Transiciones							
	Z	D	'.'	'\"'	Boolean	True	False
S1	S2	S3	S4	S5	S6		
S6						S7	S8

Token Comentario

Token comentario



$A = (\{S1, S2, S3\}; \{#, [a-zA-Z], [0-9]\}; S1; \{S2, S3\})$

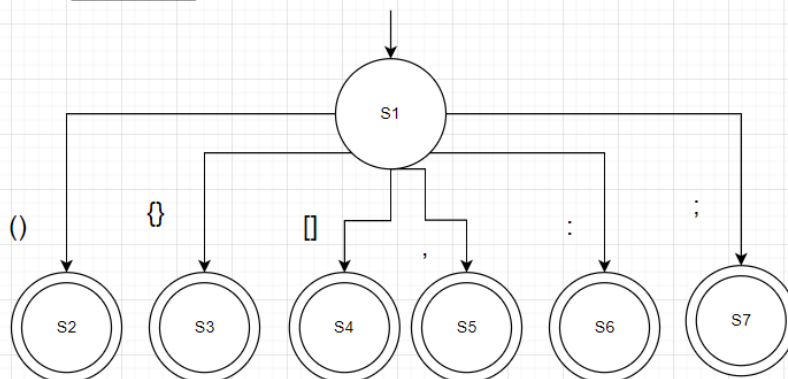
Patron = $\# ([a-zA-Z], [0-9])^*$

Q	S1, S2, S3
V	#, [a-zA-Z], [0-9]
δ	S1
F	S3, S4

Tabla de Transiciones			
	#	[a-zA-Z], [0-9]	
S1	S2		
S2		S3	
S3		S3	S4
S4			S4

Token Otros

Token otros



$A = (\{S1, S2, S3, S4, S5, S6, S7\}; \{(), \{\}, [], ,, :, ;\}; S1; \{S2, S3, S4, S5, S6, S7\})$

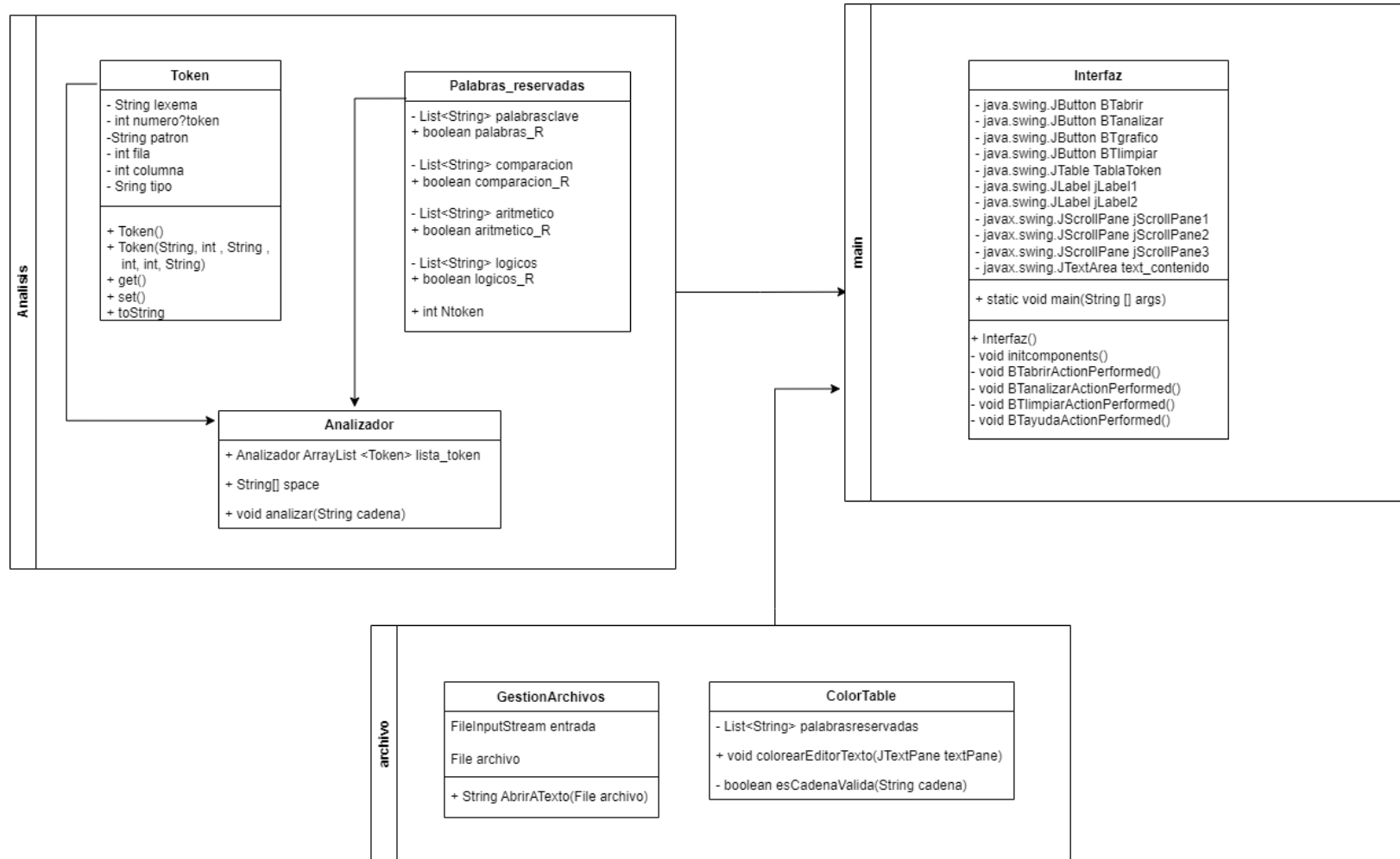
Patron = $\{ () \{\} [] , : ; \}$

Q	S1, S2, S3, S4, S5, S6, S7
V	{(), {}, [], ,, :, ;}
δ	S1
F	S2, S3, S4, S5, S6, S7

Tabla de Transiciones						
	()	{}	[]	,	:	;
S1	S2	S3	S4	S5	S6	S7

Diagrama de Clases

Los diagramas son como esta compuesto el programa Analizador Léxico



Git Flow

Se utilizo Visual Code con la extensión Git Graph para ver el uso de ramas del proyecto utilizando lo comando de git y mandarlos al github.

The screenshot shows the Visual Studio Code interface with the Git Graph extension. The left sidebar displays a list of files under 'Changes' (13 items). The main area shows the 'Graph' view with a commit history graph. The graph shows a sequence of commits starting from an initial commit on the 'develop' branch, followed by several merges from 'origin/develop' and 'origin/analysis'. The right sidebar shows a table of commits with columns for Date, Author, and Commit.

Date	Author	Commit
22 Aug 2023 01:47	*	*
22 Aug 2023 01:41	Marco Chiché	e09a6a18
22 Aug 2023 01:39	Marco Chiché	b3d79db8
22 Aug 2023 01:37	M4RC0	62e24038
21 Aug 2023 01:17	M4RC0	352657a3
21 Aug 2023 01:16	Marco Chiché	a545fd85
21 Aug 2023 01:03	Marco Chiché	436577e1
21 Aug 2023 01:01	M4RC0	1555d428
20 Aug 2023 23:29	Marco Chiché	d393bc81
20 Aug 2023 23:28	M4RC0	c41b4e56
20 Aug 2023 00:43	Marco Chiché	6231b59f
20 Aug 2023 00:41	M4RC0	e5448dc7
20 Aug 2023 00:39	Marco Chiché	921d45b7
20 Aug 2023 00:37	M4RC0	e855786f
20 Aug 2023 00:32	Marco Chiché	58332ee4
19 Aug 2023 19:18	M4RC0	1d736b8f
19 Aug 2023 19:16	M4RC0	a1275c34
19 Aug 2023 19:13	M4RC0	bbd74ef8
19 Aug 2023 18:32	Marco Chiché	950e1191

