Manual Técnico

Patrón

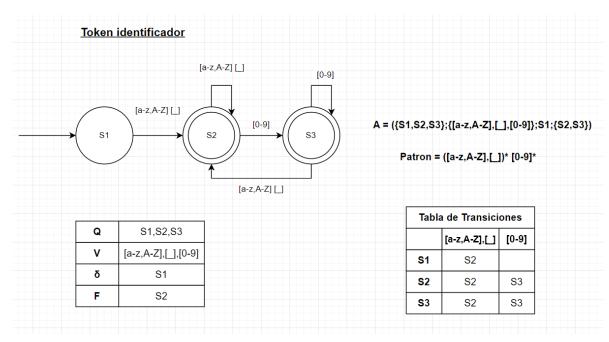
Una tabla que contiene todo tipo de token respecto a su lexema, y para identificarlo se usa expresiones regulares.

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]+[(),{},[], , ,:,;]

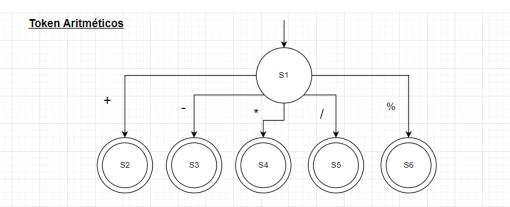
Diagramas de estados

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

Token Identificador



Token Aritméticos



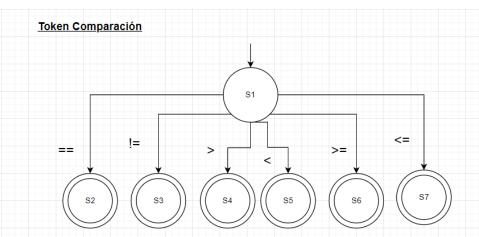
 $\mathsf{A} = (\{\$1,\$2,\$3,\$4,\$5,\$6\}; \{+,-,^*,/,\%\};\$1; \{\$2,\$3,\$4,\$5,\$6\})$

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

Q	S1,S2,S3,S4,S5,S6			
V	[+,-,*,/,%]			
δ	S1			
F	\$2,\$3,\$4,\$5,\$6			

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

Token Comparación



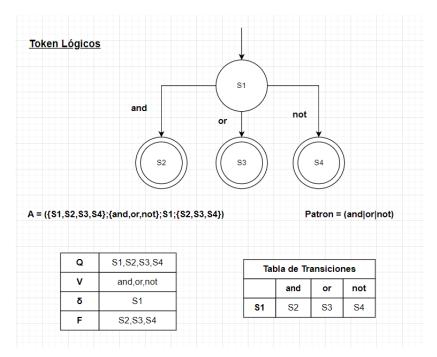
 $A = (\{\$1,\$2,\$3,\$4,\$5\}; \{=,!,>,<\}; \$1; \{\$2,\$3,\$4,\$5\})$

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

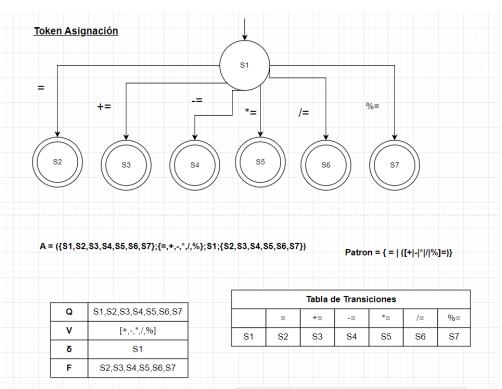
Q	S1,S2,S3,S4,S5,S6,S7,S8			
V	[==,!=,>,<,>=,<=]			
δ	S1			
F	S2,S3,S4,S5,S6,S7,S8			

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

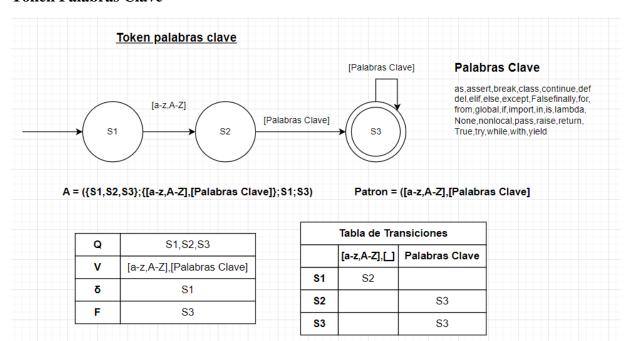
Token Lógicos



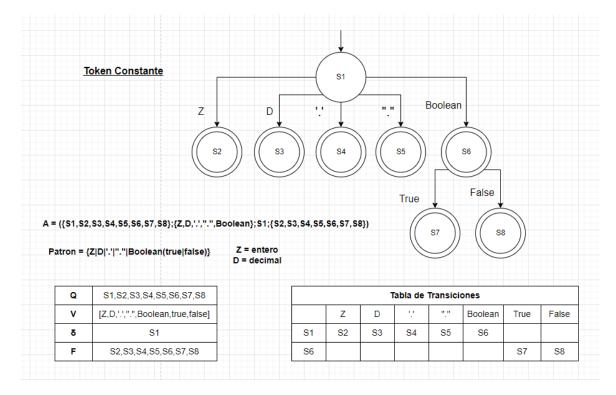
Token Asignación



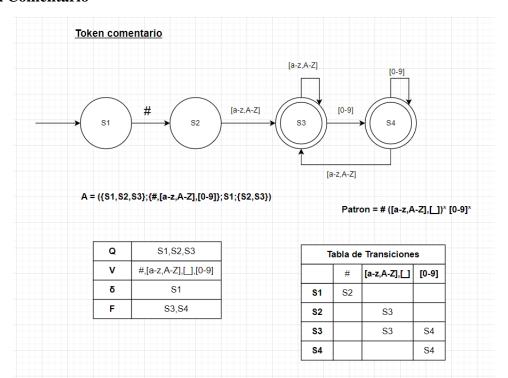
Token Palabras Clave



Token Constantes



Token Comentario



Token Otros

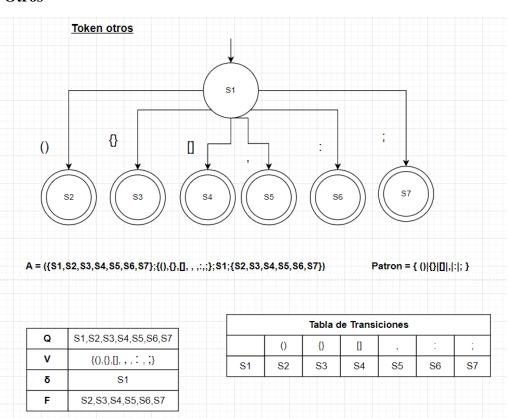
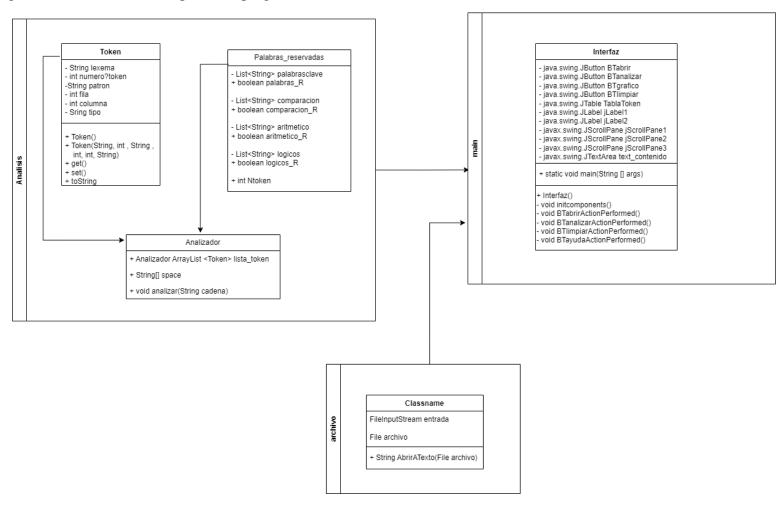


Diagrama de Clases

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.

