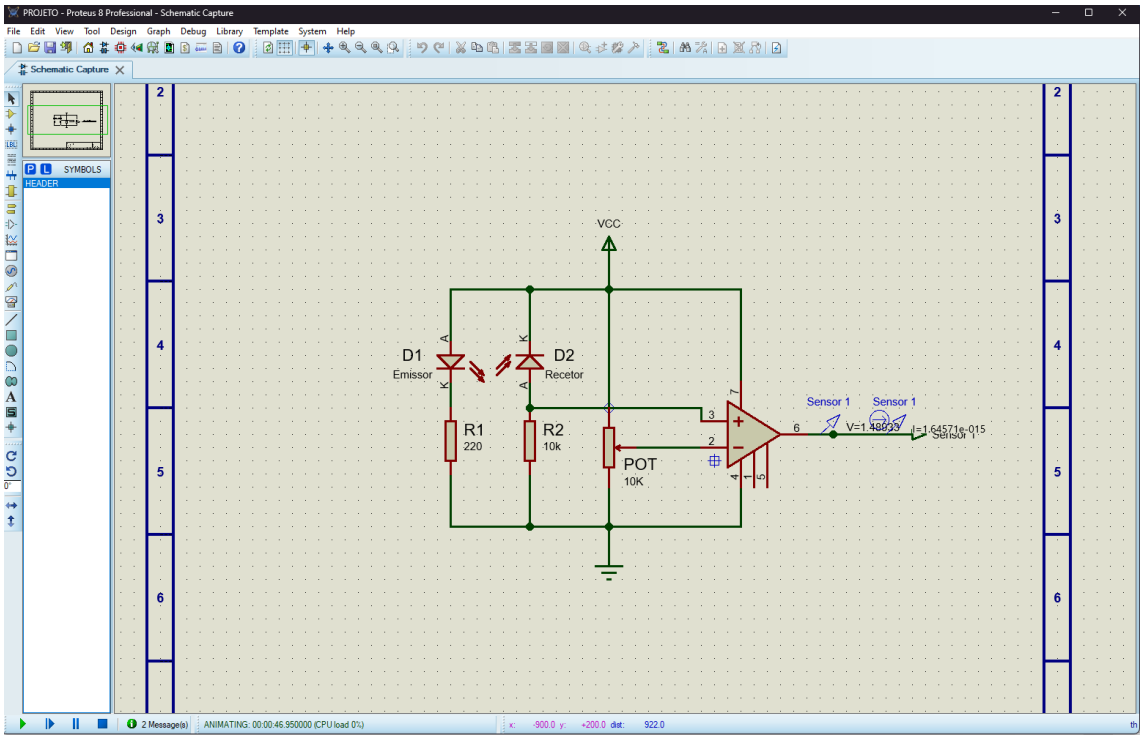
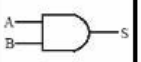
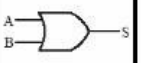
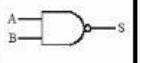
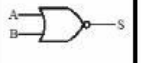
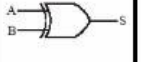
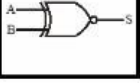
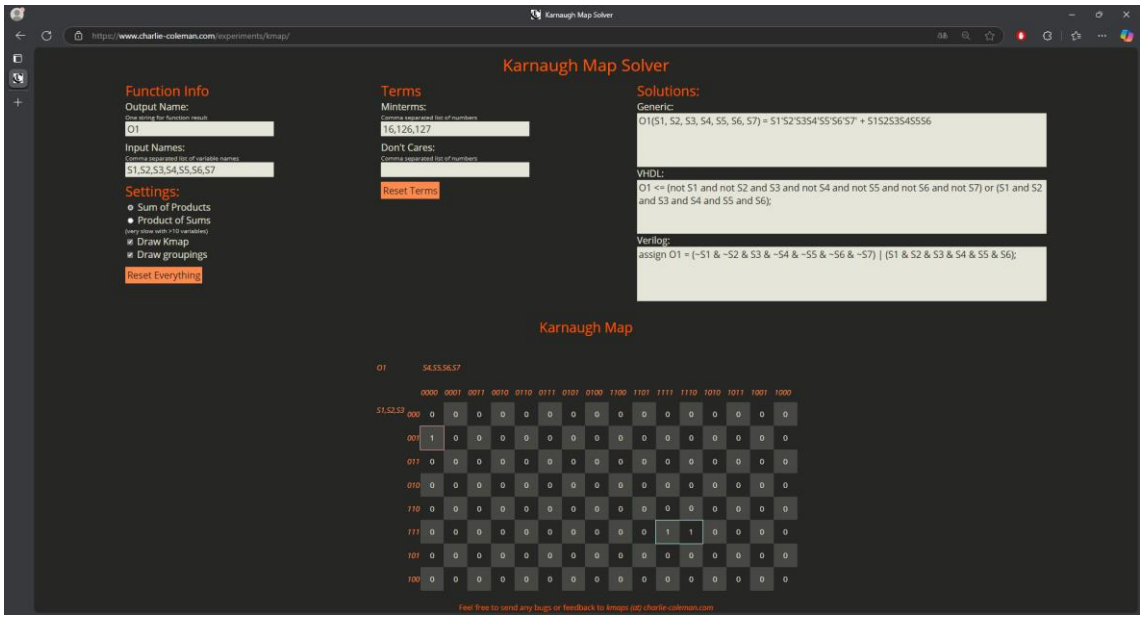


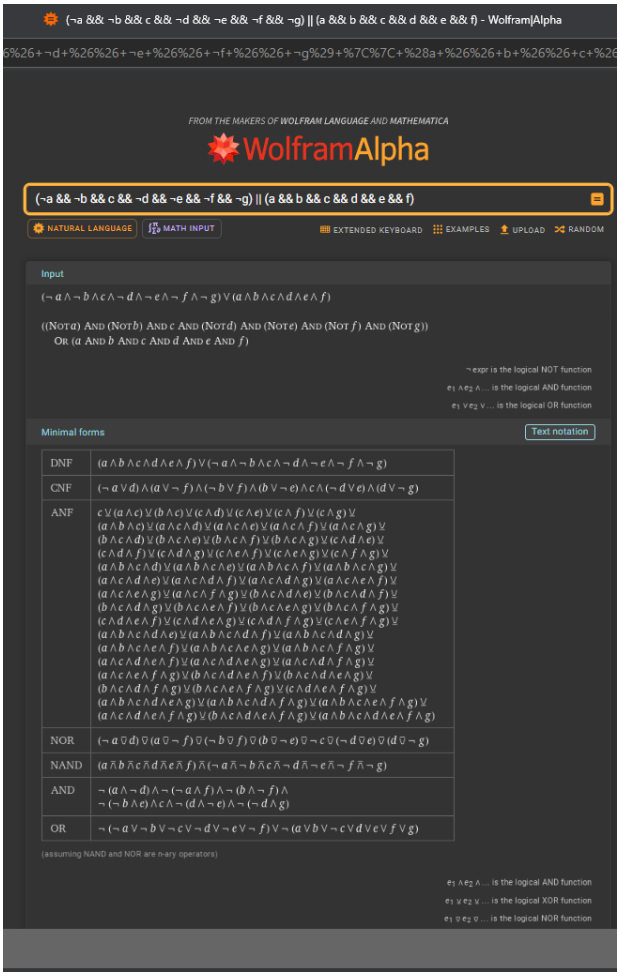
BLOCOS LÓGICOS BÁSICOS

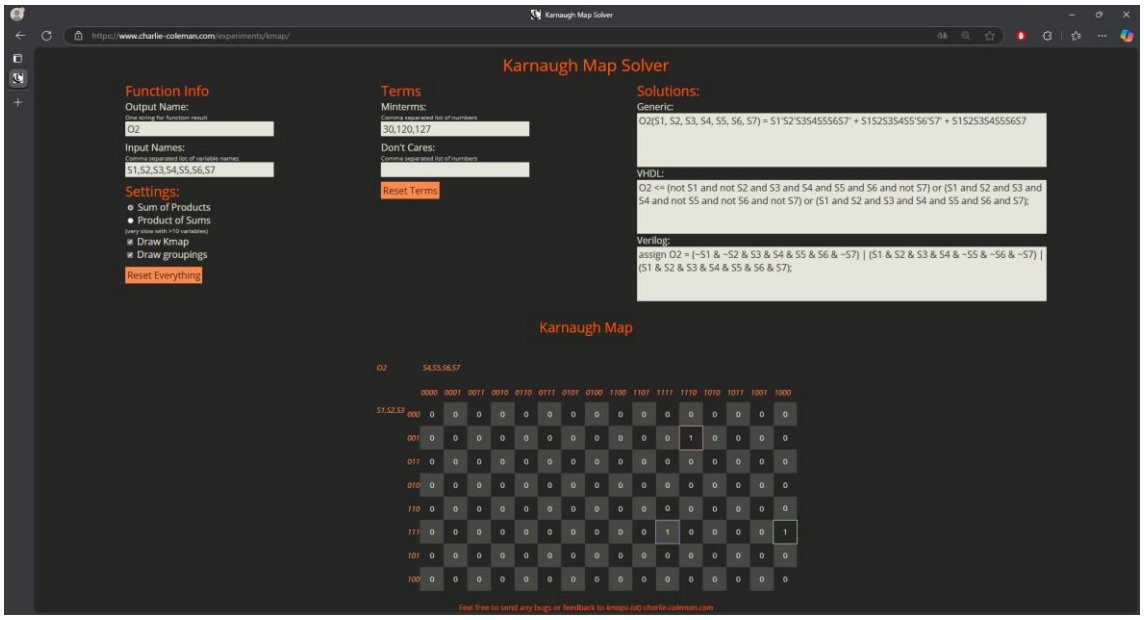
PORTA	Símbolo Usual	Tabela da Verdade	Função Lógica	Expressão
E AND		A B S 0 0 0 0 1 0 1 0 0 1 1 1	**Função E:** Assume 1 quando todas as variáveis forem 1 e 0 nos outros casos.	S=A.B
OU OR		A B S 0 0 0 0 1 1 1 0 1 1 1 1	**Função E:** Assume 0 quando todas as variáveis forem 0 e 1 nos outros casos.	S=A+B
NÃO NOT		A S 0 1 1 0	**Função NÃO:** Inverte a variável aplicada à sua entrada.	$S=\overline{A}$
NE NAND		A B S 0 0 1 0 1 1 1 0 1 1 1 0	**Função NE:** Inverso da função E.	$S=\overline{(A.B)}$
NOU NOR		A B S 0 0 1 0 1 0 1 0 0 1 1 0	**Função NOU:** Inverso da função OU.	$S=\overline{(A+B)}$
OU Exclusivo		A B S 0 0 0 0 1 1 1 0 1 1 1 0	**Função OU Exclusivo:** Assume 1 quando as variáveis assumirem valores diferentes entre si.	S=A⊕B $S=\overline{A}.B+A.\overline{B}$
Coincidência		A B S 0 0 1 0 1 0 1 0 0 1 1 1	**Função Coincidência:** Assume 1 quando houver coincidência entre os valores das variáveis.	S=A⊙B $S=\overline{A}.\overline{B}+A.B$



O1 = (~S1 & ~S2 & S3 & ~S4 & ~S5 & ~S6 & ~S7) | (S1 & S2 & S3 & S4 & S5 & S6);

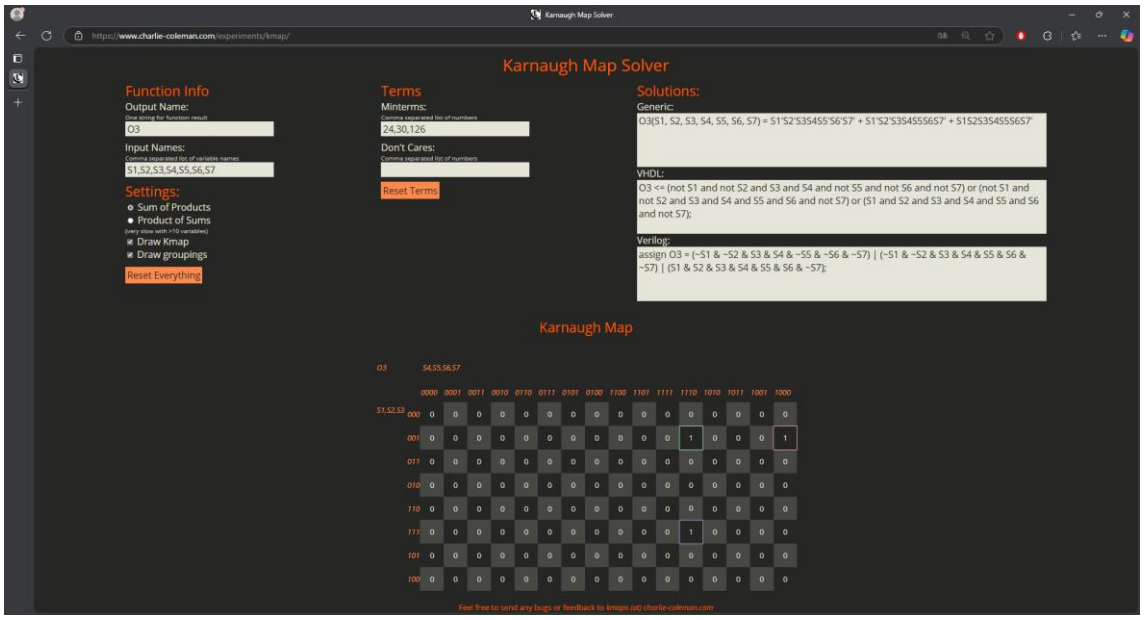
O1 = (¬a && ¬b && c && ¬d && ¬e && ¬f && ¬g) || (a && b && c && d && e && f)





O2 = (~S1 & ~S2 & S3 & S4 & S5 & S6 & ~S7) | (S1 & S2 & S3 & S4 & ~S5 & ~S6 & ~S7) | (S1 & S2 & S3 & S4 & S5 & S6 & S7);

O2 = (¬a && ¬b && c && d && e && f && ¬g) || (a && b && c && d && ¬e && ¬f && ¬g) || (a && b && c && d && e && f && g)



O3 = (~S1 & ~S2 & S3 & S4 & ~S5 & ~S6 & ~S7) | (~S1 & ~S2 & S3 & S4 & S5 & S6 & ~S7) | (S1 & S2 & S3 & S4 & S5 & S6 & ~S7);

O3 = (~a and ~b and c and d and ~e and ~f and ~g) or (~a and ~b and c and d and e and f and ~g) or (a and b and c and d and e and f and ~g)