	A	B	C
1	1	0	0
2	1	1	0
3	0	0	0
4	0	0	1
5	0	1	0
6	0	1	1
7	1	0	1
8	1	1	1

$$F = F \wedge W \quad \text{first}$$

$$W = F \vee W \quad \text{white}$$

$$0 = F \wedge \neg W \quad \text{first and non-white}$$

$$\neg W = \neg F \wedge \neg W \quad \text{non-white}$$

$$\neg F \wedge W = F \oplus W \quad \text{non-first and white}$$

$$\neg F = \neg F \vee \neg W \quad \text{non-first}$$

$$F \vee \neg W = \neg F \oplus W \quad \text{first or non-white}$$

$$1 = \neg F \vee W \quad \text{non-first or white}$$