



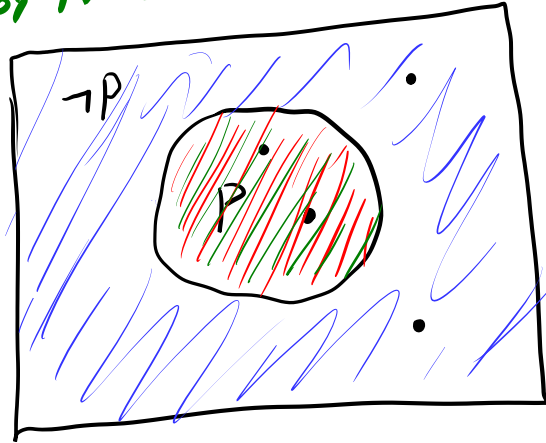
Unbridled Coding

and the
4-key Keyboard

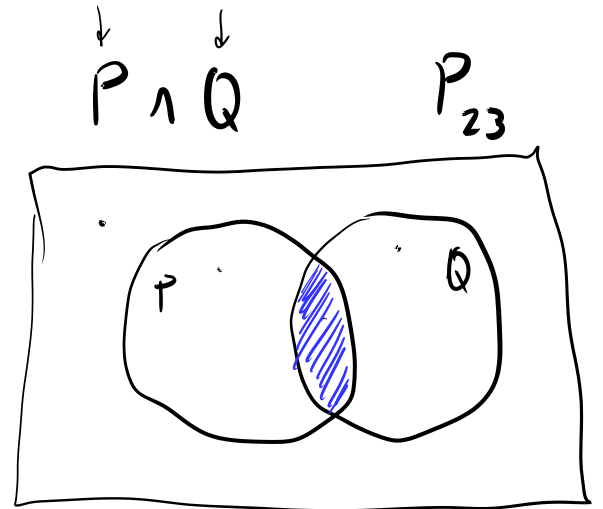
$$(P \vee Q) \wedge R$$

$$(\neg P) \wedge Q$$

→ first
rest by pvars



UPPER-CASE Venn

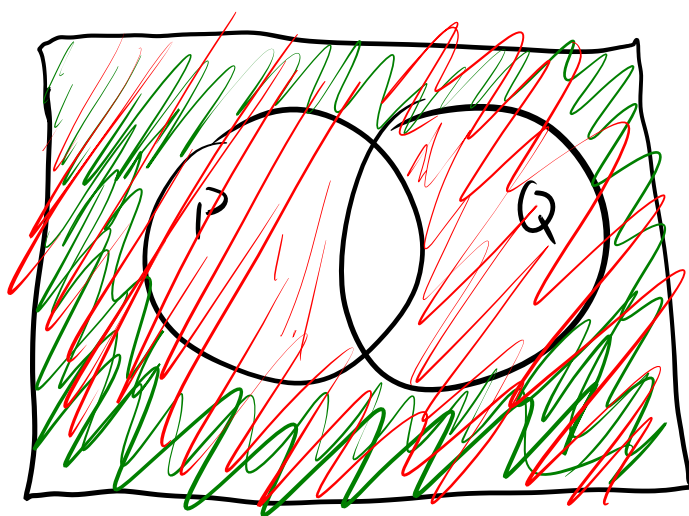


P	$\neg(\neg P)$
0	0 1
1	1 0

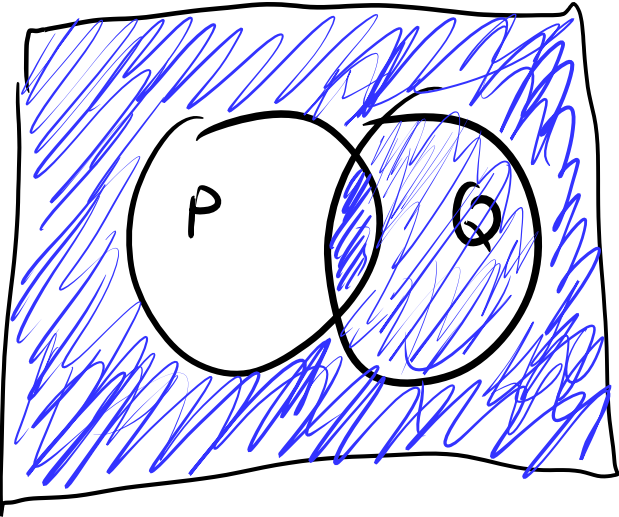
w

R	P	Q	P	Q
0	0	0	0	0
0	0	1	0	1
0	1	0	1	0
0	1	1	1	1
1	0	0	0	0
1	0	1	0	1
1	1	0	1	0
1	1	1	1	1

P	Q	$\neg(P \wedge Q)$	$\neg P$	$\neg Q$
0	0	1	1	1
0	1	1	1	0
1	0	1	0	1
1	1	0	0	0



$$P \rightarrow \bar{Q}$$

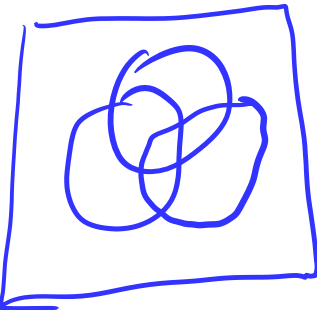


$$\neg P \vee Q$$

P	Q	$P \rightarrow Q$	$\neg P \vee Q$
0	0	1	1
0	1	1	1
1	0	0	0
1	1	1	1

P: it is raining

Q: I get wet



P	Q	R	$(P \rightarrow Q)$	\rightarrow	$(R \rightarrow Q)$
0	0	0	1	1	1
0	0	1	1	0	0
0	1	0	1	1	1
0	1	1	1	1	1
1	0	0	0	1	1
1	0	1	0	1	0
1	1	0	1	1	1
1	1	1	1	1	1