

## 1 Boolean stuff

Boole is cool.

**Definition 1** (NXOR). 🧑 We define the NXOR boolean operator that we denote as  $\odot$  by the truth table

$p$	$q$	$p \odot q$
$F$	$F$	$T$
$F$	$T$	$F$
$T$	$F$	$F$
$F$	$F$	$T$

**Lemma 1.** 🧑  $(p \odot q) \odot q = p$ .