

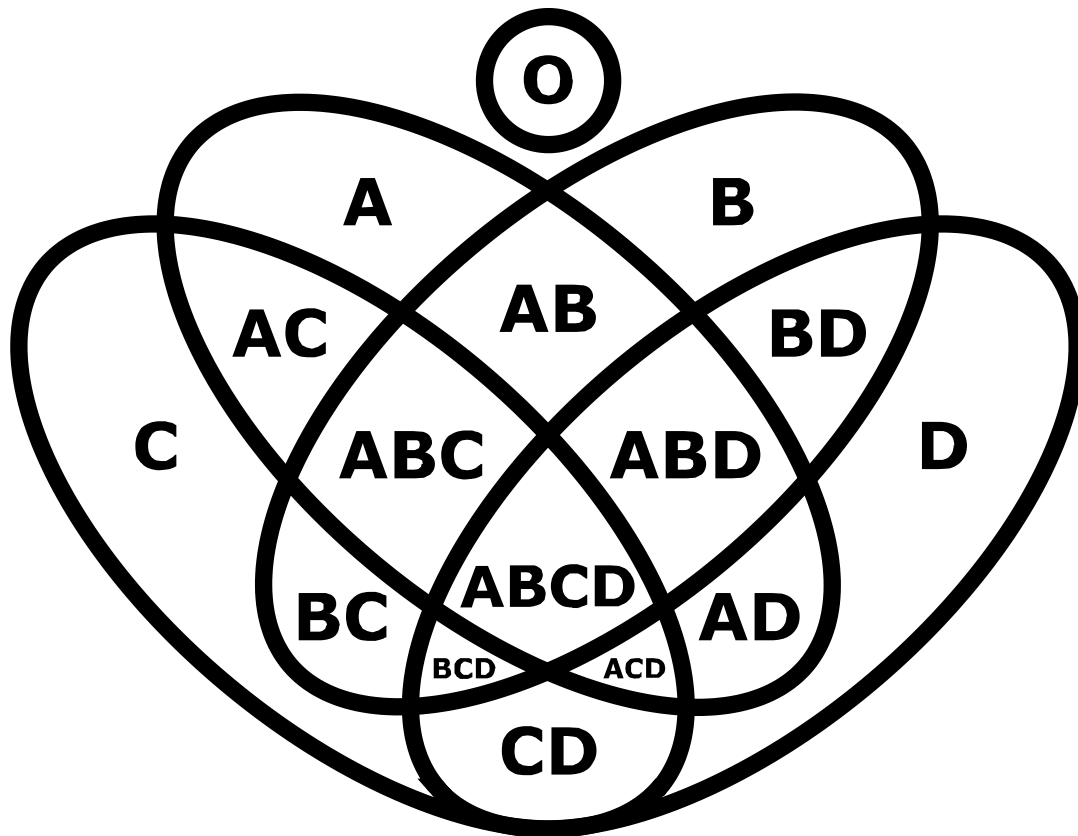
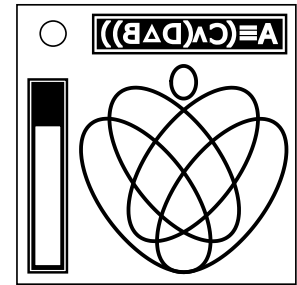
On the Subject of Fast Boolean Venn Diagram

Diagram

Sometimes, I wonder if I do logic too quickly...

Press any sector to activate the module.

Once active, a boolean expression will be displayed and a timer will count down. The diagram provided consists of all 16 possible sectors, corresponding to the sections A, B, C and D respectively. 0 refers to the area not in A, B, C, or D.

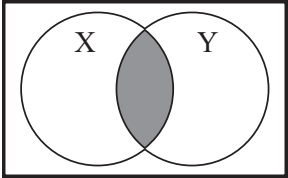
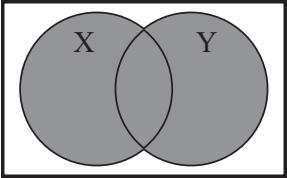
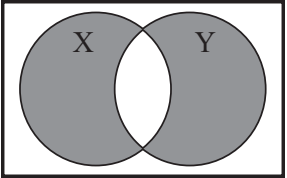
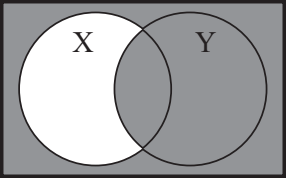
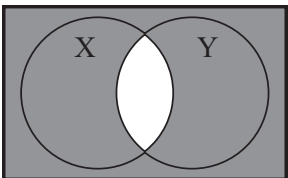
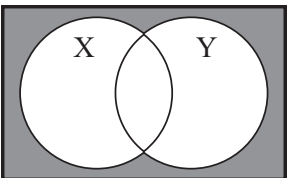
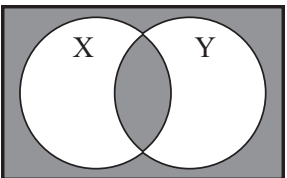
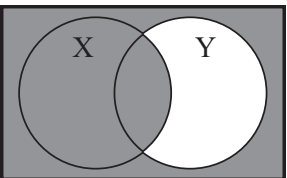


Select all sectors that would return true to disarm the module when the time runs out. A sector returns true when evaluating the expression:

- Sections that are present in the current sector are set to true and false otherwise.
- Expressions that have operators in parantheses are evaluated first.
- Operators are then evaluated left to right from the expression displayed.

Selecting an incorrect sector or missing a correct sector when the time runs out will result in a strike, activating a 15 second cooldown, displaying correct sectors of the current expression, and resetting the module.

The following images describe the operators that may appear in the expression, the grey areas output true:

<div><div>$X \wedge Y$</div><div>AND</div><div></div></div>	<div><div>$X \vee Y$</div><div>OR</div><div></div></div>	<div><div>$X \triangle Y$</div><div>XOR</div><div></div></div>	<div><div>$X \mapsto Y$</div><div>IMP</div><div></div></div>
<div><div>$X Y$</div><div>NAND</div><div></div></div>	<div><div>$X \downarrow Y$</div><div>NOR</div><div></div></div>	<div><div>$X \equiv Y$</div><div>XNOR</div><div></div></div>	<div><div>$X \leftrightarrow Y$</div><div>IMPLY</div><div></div></div>

Assessment Completed

0 error(s) detected. 3 warning(s) found.

• **Timer:** - Timer may be configured by Twitch Plays (default 60 seconds) or defuser (default 30 seconds). (TimeLimit)

• **Unused Scripts:** - Detected extra unused scripts in build. Deleted unused scripts "NotArrowsScript.cs", "HybridCipherGeneric.cs" (ExtraScripts)

• **Altered Visuals:** - Visuals for module are flipped. Venn diagram sections and displayed expression are only shifted. (VisualsModified)

Final Result

Ready to distribute. Pushing to production. Estimated date: 1 June.