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The follow table summarizes the key features of the two licenses:

Feature	GPL v3	Apache 2.0
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Patents	Not allowed	Allowed
Copyrights	Not allowed	Allowed as long as the original components are attributed as being licensed under Apache 2.0
Compatibility	Users can freely mix the codes licensed under Apache 2.0 and GPLv3 but any derivative works have to be licensed under GPLv3 and open sourced	
License Modifications	Not allowed. Cannot add new terms and conditions	Freely modifiable as long as attribution is clear.
Reciprocity Obligations	Required	Not Required.
Exceptions	There is a classpath exception to the GPL license, where one can link independently developed	Not needed as the licence is permissive.

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Example of popular software licensed	MySQL, GNU, Git,WordPress,etc.	Tensorflow, Docker,All Apache software,Swift programming language etc
Private Use	Not recommended unless using the Classpath exception	Recommended