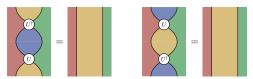
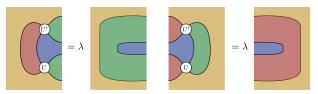
Biunitarity

 In shaded tensor networks, a 4-valent vertex U can be vertically unitary:



It can also be horizontally unitary:



A 4-valent map is **biunitary** when it is **vertically and horizontally unitary**.