

Triangulation

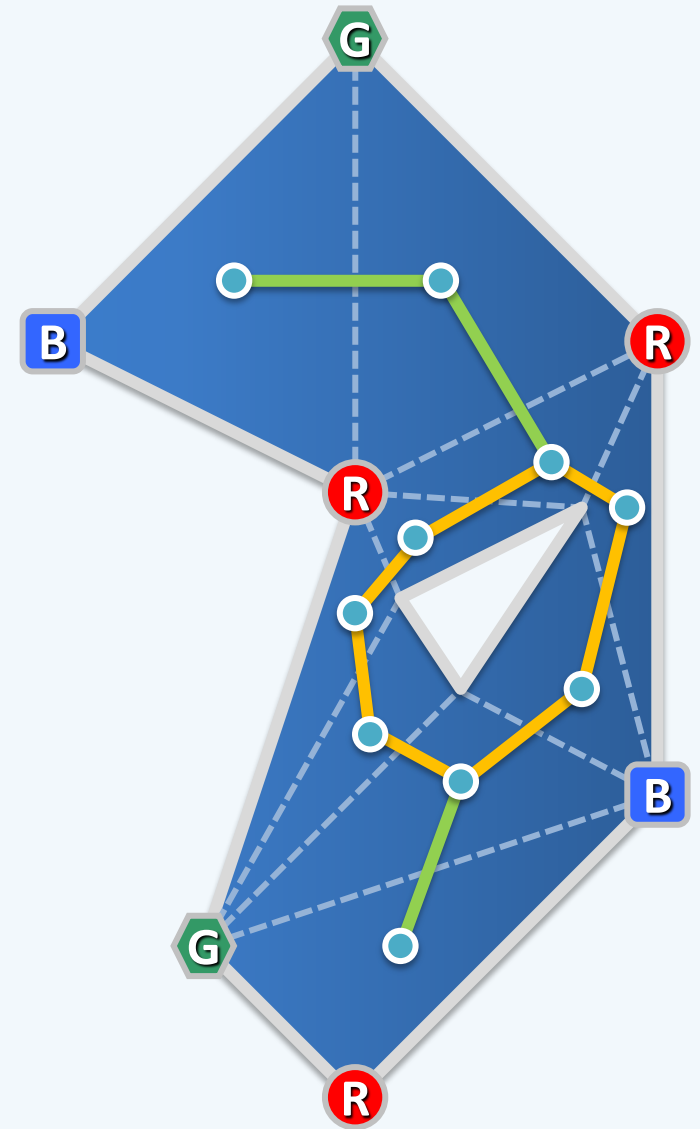
Fisk's Proof
- Generalization

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Holes

- ❖ Although Fisk's one-sheet proof is short enough
it's hard to be generalized
- ❖ For example, when the polygon P has holes
 - its dual graph is no longer a tree and
 - $\text{Tri}(P)$ are not necessarily 3-colorable



Existence of Triangulation

❖ Of more importance,

Fisk's proof depends

heavily on **triangulations**

❖ But, does every simple polygon,

with or without holes

admit a triangulation?

