

## Triangulation

Fisk's Proof

- 3-Coloring

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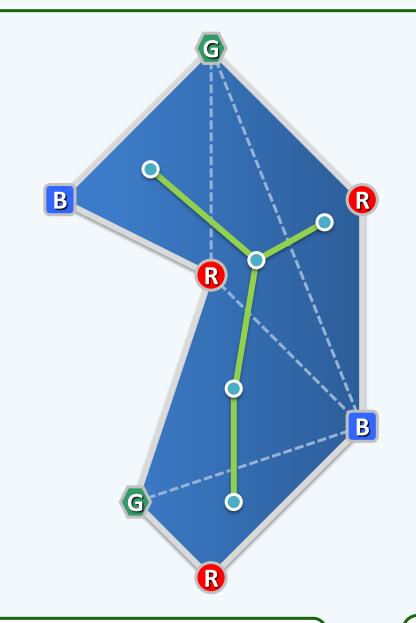
## Dual Tree

❖ When P has no holes,

the dual graph of Tri(P)

is a tree

❖ And Tri(P) is hence 3-colorable



## (Algorithm)

❖ Start at any node (triangle) and

Color its 3 vertices with R, G and B resp.

- ❖ Traverse the dual tree
- ❖ Whenever we enter a next triangle,

assign the new vertex with the third color

