

Triangulation

Fisk's Proof

- Domination

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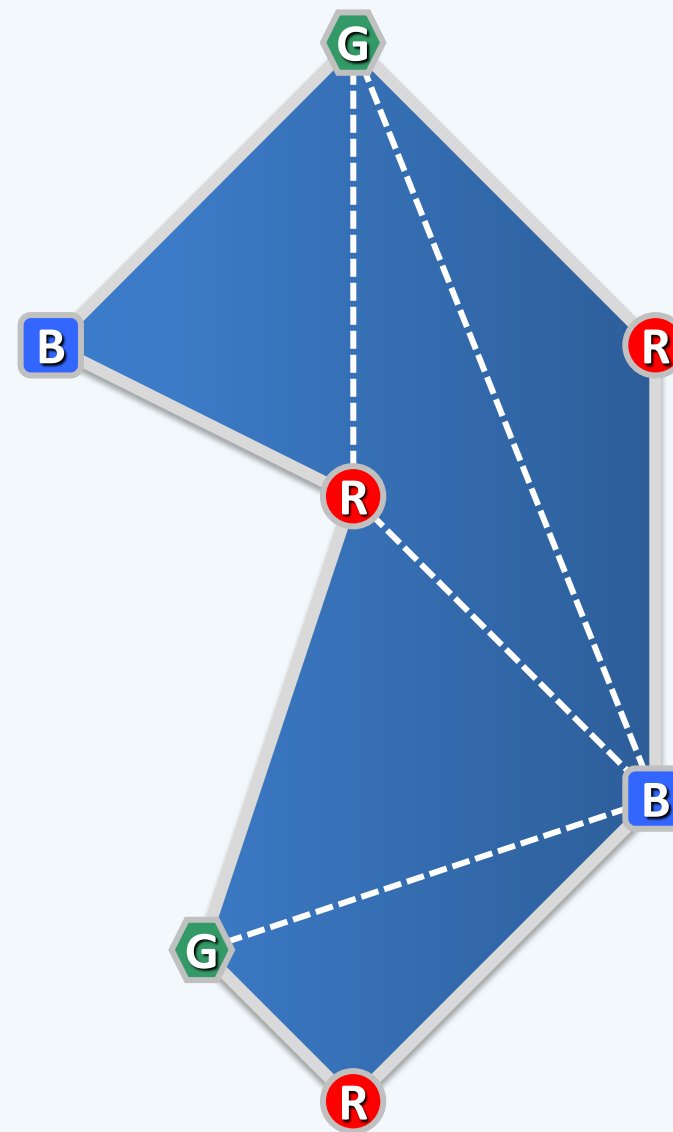
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- ❖ Each 3-coloring scheme
classifies all vertices
into 3 subsets :

$$\mathcal{R} + \mathcal{G} + \mathcal{B}$$

- ❖ Each subset dominates P

Why ?



- ❖ By convexity,
every triangle is dominated by
any of its 3 vertices
- ❖ By the coloring rules,
the 3 vertices of each triangle
should be assigned with different colors
- ❖ Each color will be assigned to
1 (and only 1) vertex of every triangle

