

Programming Challenge: Bosch Logo Color Changer.

Context:

Bosch is planning to renew its corporate image. The IT team is developing software to help the Marketing department generate and test new visual ideas. One of the core features of this tool will allow the marketing team to modify the Bosch logo, experimenting with different color schemes for new campaigns.

The development team already has most of the system ready, but one specific function is still missing: a utility that allows changing the logo's color dynamically. So, they need your help to complete that.

Objective:

Implement a small command line utility that enables changing the color of the Bosch logo (in PNG format) to a user-specified color.

Requirements:

- Input:

- Path or file of the original logo image.
- A color code (e.g., HEX #FF0000 or RGB (255, 0, 0)).

- Output:

- A new image of the logo with the updated color.
- The transparency and image quality must be preserved.
- The modified image should be saved with a new name.

- Suggested languages and tools:

- You are free to use the tools you want.
- Prefer C#, Python or C++, to make the integration easier.
- Use object-oriented programming.
- Unit test your code.

- Delivery:

- Provide all the files via a public repository (e.g. GitHub, Gitlab).
- Include a readme.md file.