

Python Command-line Script assignment: Customizable Resume PDF Generator

Objective:

Build a Python command-line script that allows users to generate a customized resume in PDF format with options for font size, font color, and background color.

Options for Implementation

- Provide a command-line interface with arguments:
 - `--font-size`: Adjust font size.
 - `--font-color`: Adjust font color (e.g., hex code or color name).
 - `--background-color`: Adjust background color.
 - Example: `python resume_generator.py --font-size 12 --font-color "#0000FF" --background-color "#F5F5F5"`
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Features

1. Pre-generated Resume

- Start with a simple resume containing your:
 - **Name, Contact Information, Skills, Education, and Experience.**
- Generate the initial PDF using tools like **FPDF**, **ReportLab**, or **WeasyPrint**.

2. Resume PDF layout

- Design the PDF using any resume layout from below websites and convert it to Python PDF code
 - <https://www.canva.com/resumes/templates/>
 - <https://enhancv.com/resume-templates/modern/>
 - <https://resumegenius.com/resume-templates>
 - <https://www.resumebuilder.com/resume-templates/>
 - <https://resume.io/resume-templates/modern>

3. Customization Options

- Enable the following customizations:
 - **Font Size**: Adjustable via a command-line argument.
 - **Font Color**: Adjustable via a command-line hex code argument.
 - **Background Color**: Adjustable via a command-line hex code argument.

4. PDF Regeneration

- Regenerate the PDF with the chosen options and save it as a new file.
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Tools/Frameworks like

- **argparse**: For parsing command-line arguments.
 - **FPDF** or **ReportLab**: For generating customized PDF files.
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Deliverables

- A python script(.py file) that accepts arguments for customization and outputs a customized PDF file.
 - A sample resume PDF created using your Python script.
 - The Python script and the sample resume PDF uploaded to a public GitHub repository under the student's account. The repository URL should be shared with the company.
 - **README File**: Provide setup and usage instructions.
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Example Scenarios

The user runs the script with arguments:

1. `python resume_generator.py --font-size 14 --font-color "#FF5733" --background-color "#FFFFFF"`
2. The script generates a new PDF based on the provided options.