To convert an HTML file with an external CSS file into a PDF using Python, you can use a library called pdfkit, which is a Python wrapper for wkhtmltopdf. This tool allows you to generate PDF files from HTML documents while preserving styles from the linked CSS.

Here's a step-by-step guide on how to do this:

Step 1: Install the Required Tools

1. **Install wkhtmltopdf** You need to install wkhtmltopdf, which is the underlying tool used by pdfkit to convert HTML to PDF. On Ubuntu, you can install it with:

bash sudo apt update sudo apt install wkhtmltopdf

On other systems, you can download it from wkhtmltopdf official downloads.

2. Install the pdfkit Python Library After wkhtmltopdf is installed, install the pdfkit library using pip:

bash pip install pdfkit

Step 2: Write the Python Script

Once the necessary tools are installed, you can use the following Python script to convert an HTML file with an external CSS file into a PDF:

"python import pdfkit

Path to your HTML file and CSS file

htmlfile = 'example.html' cssfile = 'style.css' output_pdf = 'output.pdf'

Define options for wkhtmltopdf

options = { 'encoding': 'UTF-8', # Set character encoding 'no-outline': None, # Disable outline in the PDF 'enable-local-file-access': None # Enable local file access for CSS }

Convert HTML file to PDF

with CSS

pdfkit.from*file(htmlf*ile, output*pdf, options=options, css=cssf*ile)
print(f'HTML with CSS has been converted to {output pdf}') ```

Step 3: Prepare Your HTML and CSS

Ensure that your HTML and CSS files are in the same directory or provide absolute paths to the files. Here's an example structure:

- example.html
- style.css
- convert to pdf.py

For example, example.html could look like this:

```html

## Hello, PDF!

This is an example of converting HTML with CSS into a PDF using Python.

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And style.css could look like this:

"css body { font-family: Arial, sans-serif; line-height: 1.6; margin: 20px; }

h1 { color: #2c3e50; } ""

#### Step 4: Run the Python Script

After preparing the HTML, CSS, and Python script, run the script:

bash python convert to pdf.py

This will generate output.pdf with the styles from style.css applied to the HTML content.

#### Step 5: View the PDF

Once the script runs successfully, you should find output.pdf in the same directory. You can open it using any PDF viewer to check the result.

#### **Optional: Convert HTML from URL or String**

If you want to convert HTML content from a URL or string instead of a file, you can use the following methods:

- 1. **Convert HTML from URL**: python pdfkit.from\_url('https://example.com', 'output.pdf')
- 2. **Convert HTML from String**: python html\_string = """ <html><head><link rel="stylesheet" href="style.css"></head> <body> <h1>Test</h1>This is a test</body></html> """ pdfkit.from\_string(html\_string, 'output.pdf', css='style.css')

With this approach, you can easily convert HTML files with CSS styling into PDF using Python.