

Take-Home Writing Assignment #4 – AI version (10%)

WHAT

Demonstrate your ability to think critically and develop a meaningful and appropriate research question.

WHY

Educational and workplace expectations require people to ask insightful, original, and relevant questions, to understand the value of the questions they ask, and to find meaningful answers based on reliable sources of information.

HOW

Follow the steps below and respond to the prompts in the spaces provided.

SPECIAL NOTE ON USE OF GENERATIVE AI

Third-party AI programs that require you to upload your personal information carry significant privacy and intellectual property concerns.

If you would prefer not to interact with generative AI, you may complete the alternate version of this assignment, which is an equitable equivalent that does not require the use of generative AI

If you do choose to complete this version of the assignment, you are encouraged to use only web-based tools such as Perplexity and You.com.

Also, if you choose to complete this version of the assignment, please avoid using college devices and e-mails when you interact with generative AI.

1. DEVELOP A RESEARCH QUESTION

Using what we have learned about developing research questions, write a research question that you would be interested in and capable of answering.

Develop your question based on ONE of the following prompts.

- **Historical Analysis:** Develop a question that inquires about a *significant historical event, period, or person* within your field of study.
- **Industry Analysis:** Develop a question that inquires about a *current trend, problem, or innovation* within your field of study.
- **Product Analysis:** Develop a question that inquires about a *current technology, consumer product, or brand* within your field of study.

a) Identify which type of analysis (from the three listed above) your question will explore.

Product Analysis

b) Write your research question in the space below.

Is good high-end graphics card is needed to use Adobe photoshop?

2. JUSTIFY YOUR RESEARCH INTEREST

Explain why it would be professionally helpful for you to understand the answer to your chosen question and why it represents a good fit with your current level of experience and knowledge.

So, as I want to become good graphics designer I have to make sure that I have knowledge about all graphics designs software. This research would help me to choose a specific pc or laptop I have to buy with the specification like RAM, ROM and graphic card.

3. IDENTIFY A USEFUL SOURCE OF INFORMATION

Demonstrate your ability to answer your research question by identifying a relevant, appropriate, and reliable source of information. Use APA @ Conestoga style to list this source in the space below. Remember to consult our [APA @ Conestoga website!](#)

<https://helpx.adobe.com/ca/photoshop/kb/photoshop-cc-gpu-card-faq.html>

4. JUSTIFY YOUR POTENTIAL TEXT

Demonstrate the suitability of your supporting text by answering the following questions.

a) How do you know this source is trustworthy?

I can trust this source because its official adobe software websites which I will used to download all graphics design softwares.

b) What makes this source appropriate for your current level of experience and knowledge?

This source is very appropriate with my current level of experience as it shows all the information about graphics cards and about RAM and ROM.

c) What will this source help you to learn about the topic of your research question?

This source help me to know about what is the minimum graphics processor required? Also shows how photoshop is use graphics processor.

5. USE ARTIFICIAL INTELLIGENCE (AI) TO HELP YOU DEVELOP YOUR THINKING

Generative AI software programs are not a suitable replacement for academic research and individual writing, but they can potentially contribute to *your thinking process*.

Type your question into an online generative AI program and paste the response in the space below.

Adobe Photoshop primarily relies on the CPU (Central Processing Unit) for most tasks, and it doesn't heavily leverage GPU (Graphics Processing Unit) performance for basic image editing. However, certain features in Photoshop can benefit from a high-end graphics card:

1. GPU Acceleration: Some features like 3D rendering, Zooming, and certain filters can be accelerated with a compatible GPU. Adobe has been improving GPU acceleration in recent versions of Photoshop.

2. OpenCL and OpenGL Support: Photoshop uses OpenCL and OpenGL technologies for certain features, and having a graphics card that supports these standards can enhance performance.

3. High-Resolution Displays: If you're working with large files on high-resolution displays, a powerful GPU can help in smooth zooming and navigating.

That said, for most basic and even moderately advanced Photoshop tasks, a mid-range or even a budget graphics card should be sufficient. If you are doing more intensive tasks like 3D rendering or working with very large files, then investing in a high-end GPU might provide noticeable performance benefits. Always check Adobe's official recommendations for the specific version of Photoshop you are using, as requirements can vary.

a) Based on the information included in the generative AI response, identify a second source of information that would help you to answer your research question effectively. Use APA @ Conestoga style to list this source in the space below. Remember to consult our [APA @ Conestoga website!](#)

<https://www.pugetsystems.com/solutions/photo-editing-workstations/adobe-photoshop/hardware-recommendations/#:~:text=How%20much%20VRAM%20>

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b) Explain how this additional source of information would add to your understanding of the research question you developed.

This new source of information help me to know more about all processor it has specific graph which showing all the processor and its score with the use of it.

c) Based on the AI response, would you make any changes to your original research question? Why or why not? If you would, what might that change include?

No, I don't change anything in my research. Because, it has all that I would want in my research original question.

6. Distinguish Sources of Information and Writing Produced by Generative AI

Conestoga's Academic Integrity policies prohibit students from presenting academic work for assessment if it was not produced by them.

This is one reason students should not use artificial intelligence on their assessments unless they are explicitly permitted to do so.

But this is not the only reason!

Look at the text produced by AI in response to your research question and, in the space below, explain how this response might fail to meet the expectations of an academic a research-based writing assignment at Conestoga College.

In your response, you might consider what we have learned about any or all of the following:

- audience and purpose,

- tone and voice,
- organizing and developing ideas,
- using text references to support your academic writing, and
- APA @ Conestoga style guidelines.

As what I have seen through this research I can that the information given by the generative AI is not give direct response. As we have to give more specific prompt to get information. But for other source if we search for one thing it gives multiple things.