

COMPUTER GRAPHICS BY RAJESH MAURYA

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Who is the fathers of computer graphics? Ivan Sutherland is considered by many to be the father of computer graphics. He introduced such concepts as 3-D computer modeling, visual simulation, computer-aided design (CAD), and virtual reality. Sutherland's work in computer graphics began with his Ph. D.

Who is the pioneer of computer graphics? Ivan Edward Sutherland (born May 16, 1938) is an American computer scientist and Internet pioneer, widely regarded as a pioneer of computer graphics. His early work in computer graphics as well as his teaching with David C. Evans in that subject at the University of Utah in the 1970s was pioneering in the field.

What is computer graphics and multimedia? Computer graphics are pictures and films created using computers. Multimedia is content that uses a combination of different content forms such as text, audio, images, animations, video and interactive content.

What is computer graphics and applications of computer graphics? It's used in digital photography, film and television, video games, and on electronic devices and is responsible for displaying images effectively to users. Think of computer graphics as the intersection of design and computer science, with the purpose of delighting and engaging audiences.

Who are the 4 fathers of computer? Besides Charles Babbage, Konrad Zuse, Alan Mathison Turing, John Vincent Atanasoff, and Henry Edward Roberts are the father of computers.

Who first used computer graphics? The first computer graphics design system was developed by Evan Sutherland as his PhD thesis at MIT in 1963. It was called Sketchpad and allowed a user to sketch a mechanical part on a computer screen, place constraints on the part, and have the computer calculate the exact design of the part.

Who is the father of modern graphic? Paul Rand has, quite rightly been described as the “father of the modern design industry”. He transformed graphic design from a largely arts based craft into the powerful corporate communications tool we see today.

Who is the father of modern computer design? Alan Turing was a pioneering mathematician widely considered to be the father of modern computer science. His revolutionary idea was to create a machine that would turn thought processes into numbers.

Who created the first graphic image? Chinese Printing 200 CE - 1040 CE The Chinese are often considered the pioneers of printing and graphic design as a majority of printing-related discoveries were made in China. These Included paper making, wooden block printing and the first printing press of the world.

What is computer graphics vs graphic design? Graphics can either be practical and functional or artistic and imaginative. Graphic design, on the other hand, is the methodical, purposeful selection and arrangement of graphic elements, typography, and the psychology of color to create visually appealing designs.

How to learn computer graphics? Good knowledge and understanding of the concepts of C programming language are necessary for learning the concepts of Computer graphics. Good understanding about basic mathematics allows us to better understand the concept of computer graphics.

What is the basic knowledge of computer graphics? The study of computer graphics is a sub-field of computer science which studies methods for digitally synthesizing and manipulating visual content. Although the term often refers to three-dimensional computer graphics, it also encompasses two-dimensional graphics and image processing.

Who is the father of computer graphics? Computer Engineer Ivan Sutherland is considered as the 'Father of Computer Graphics'. In the late 1960s, when hardly anyone had heard of computer, Sutherland made two revolutionary contributions that set the foundation for modern age computing.

Is computer graphics difficult? Graphics programming is a difficult field to get started in. For the most part, C++ competency is a given and from there, the path to becoming a competent graphics programmer is a very real grind.

What is CAD in computer graphics? CAD (computer-aided design) is the use of computer-based software to aid in design processes. CAD software is frequently used by different types of engineers and designers. CAD software can be used to create two-dimensional (2-D) drawings or three-dimensional (3-D) models.

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Who is the creator of graphics? In 1922 typographer William A. Dwiggins coined the term graphic design to identify the emerging field. Throughout the 20th century, the technology available to designers continued to advance rapidly, as did the artistic and commercial possibilities for design.

Who is the father of computer animation? John Whitney (1917–1995) was an American animator, composer and inventor, widely considered to be one of the fathers of computer animation.

Evidence-Based Medicine: Pros and Cons

Evidence-based medicine (EBM) is a systematic approach to medical practice that uses scientific evidence to inform decision-making. It emphasizes the use of valid

and reliable research to guide diagnosis, treatment, and prevention. While EBM offers numerous benefits, it also has certain limitations.

Pros:

- **Improved patient outcomes:** EBM helps clinicians make decisions based on the best available evidence, which can lead to more effective treatments and better health outcomes.
- **Reduced healthcare costs:** By utilizing evidence-based interventions, healthcare providers can avoid unnecessary tests and treatments, potentially reducing costs.
- **Enhanced trust in healthcare:** EBM promotes transparency and accountability, as clinicians can justify their decisions based on scientific evidence. This builds trust between healthcare providers and patients.
- **Reduced medical errors:** By following evidence-based guidelines, clinicians can minimize diagnostic and treatment errors, improving patient safety.
- **Increased patient involvement:** EBM encourages shared decision-making, where clinicians discuss the evidence with patients and involve them in choosing the most appropriate treatment options.

Cons:

- **Limited evidence:** In some cases, there may not be sufficient research to support evidence-based recommendations. This can make it challenging to apply EBM in specific situations.
- **Potential for bias:** Research studies can be biased or flawed, which can influence evidence-based recommendations.
- **Time and resource constraints:** Gathering and evaluating evidence-based information can be time-consuming and resource-intensive. This can be challenging for clinicians with limited time or resources.
- **Clinical judgment and experience:** EBM is not intended to replace clinical judgment and experience. There may be situations where individual patient factors or context warrant deviations from evidence-based guidelines.

- **Overemphasizing data:** There is a risk of overemphasizing data and neglecting the art of medicine. EBM should be used in conjunction with clinical judgment and a holistic understanding of the patient's needs.

Social Psychology: The Science of Everyday Life

Social psychology is the scientific study of how people think, feel, and behave in social situations. It investigates the psychological processes that underlie our interactions with others and the social forces that shape our individual and collective behaviors.

1. What is the definition of social psychology?

Social psychology is the branch of psychology that examines how people's thoughts, feelings, and behaviors are influenced by the real or imagined presence of others.

2. What are some key concepts in social psychology?

Some key concepts in social psychology include social influence, conformity, obedience, prejudice, and discrimination.

3. How is social psychology relevant to everyday life?

Social psychology is relevant to everyday life because it can help us understand our own behavior and the behavior of others. It can also help us improve our social skills and build stronger relationships.

4. What are some examples of how social psychology can be applied to everyday life?

Social psychology can be applied to everyday life in a variety of ways. For example, it can help us understand why we are attracted to certain people, how to resolve conflicts, and how to influence others.

5. How can I learn more about social psychology?

There are many ways to learn more about social psychology. You can read books and articles on the topic, take a course at a local college or university, or attend a workshop or conference.

At what rpm should propeller feathering be checked? Most feathering propellers (hydraulically actuated, constant speed, such as the Hartzell and McCauley types) fitted to twin-piston engine light aircraft are designed in such a way that it is not possible to feather the blades below a certain low rpm (typically 700-1000 rpm).

What is a feathering propeller? Feathering the blades of a propeller means to increase their angle of pitch by turning the blades to be parallel to the airflow. This minimizes drag from a stopped propeller following an engine failure in flight.

What is the pitch of a feathering propeller? When the crew commands the propeller to feather, oil flows out of the piston allowing the feathering spring to force the blades towards a feather position. Full feather is about 89 degrees blade angle. The crew feathers the propellers by activating the engine stop-and-feather control in the cockpit.

What is the blade angle of a feathered propeller? A feathering propeller is a constant-speed propeller used on multi-engine aircraft that has a mechanism to change the pitch to an angle of approximately 90°.

What is the minimum RPM for feathering? The engine securing (feathering) procedure advises that the propellers must be feathered before they drop below 1000 rpm.

What is constant speed prop feathering? A feathering propeller is simply a constant-speed unit that can rotate the blades until they are nearly aligned with the relative wind. This provides reduced drag in the event of an engine failure. Feathering props are found on most twin-engine airplanes.

What is the disadvantage of feathering propellers? In summary, the pros of a folding/feathering propeller, less drag while sailing and better reverse performance when docking (no or little prop walk) Cons: loss of horsepower while motoring and expense.

What can cause failure of a propeller to feather? Propellers can be impossible to feather if the crankshaft fails or the pilot fails to feather before the prop windmills down to a speed that results in the start locks engaging.

When to feather a propeller? On a single engine aircraft such as a motor glider, feathering the propeller when the engine is shut down results in a significant increase in gliding distance.

Is a feathered propeller coarse or fine? When the propeller is commanded to feather, either manually or automatically, hydraulic pressure is applied to the “coarse pitch” side of the propeller control actuator either directly from the engine high pressure pump or the dedicated feathering pump (whenever the engine pump is not supplying sufficient pressure).

How do I choose the right pitch for my propeller? When selecting a boat propeller, you should go for a higher pitch if you care about boat speed. However, a lower pitch will be the better choice if you load your boat with a significant amount of gear. You Might Also Like: Editor's Note: This article was updated in November 2022.

How can a feathering propeller be Unfeathered? Unfeathering the propeller involves making sure fuel, ignition and air are available to the engine, then moving the prop control out of the feather position. The procedure should not be rushed; use the appropriate checklist to get it right. Oil again flows to the prop dome and the blades twist out of feather.

What is blade pitch to feather? Pitch-to-feather (pitch control): the rotational speed is limited to the rated value by pitching the blades to feather. By pitching the blades' leading edge into the wind, the aerodynamic process of blade feathering occurs, which causes a reduction of the aerodynamic forces.

What is the optimal blade angle for a propeller? Angle of Attack is the angle between the chord of the element and the relative wind. The best efficiency of the propeller is obtained at an angle of attack around 2 to 4 degrees.

What is feather angle? Feathering a kayak paddle simply means you adjust the ferrule on the shaft so the blades are at an angle to each other rather than straight. Like so: You can see how the blades are offset from each other (photo courtesy of Chad Hoover) This off-set angle is achieved by adjusting the ferrule.

When would a pilot activate the propeller feathering system? The inflight feathering of the propeller, on an engine that has failed or has been intentionally shut down, greatly reduces the drag that would occur with the blade pitch in any other position.

What is acceptable propeller slip? Calculating slip can be useful when diagnosing an issue with a setup. Calculated propeller slip within the range of 5% to 25% is typical and acceptable.

Why is my propeller not feathering? Propellers can be impossible to feather if the crankshaft fails or the pilot fails to feather before the prop windmills down to a speed that results in the start locks engaging.

What is the RPM limit for a propeller? Maximum RPM = 270,000/prop diameter (inches) All electric propellers are suitable for multi-rotor applications.

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