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Using similes in writing

Using similes in your writing. How to use metaphor in writing. Using similes in persuasive writing. Why do we use similes in writing. How to use similes in a sentence. Using similes and metaphors in descriptive writing.

While the space shuttle of 120 tons is surrounded by almost 4 million pounds of rocket fuel, exhaling harmful fumes, visibly impatient to challenge gravity, on-board computers take the command. Four identical machines, with the same software, extract information from thousands of sensors, take hundreds of millisecond decisions, vote for any decision, control each other 250 times per second. A fifth computer, equipped with a different software, is ready to take control in case of malfunctioning of the other four.at â € me Each of the three motors that shoot at 160 milliseconds away, tons of super-cooled liquid fuel pour into the combustion chambers. The ship oscillating on its launch ramp, grounded only by bolts. While the main engines reach a million pounds of thrust, their drains shrink in blue flame diamonds. Then, and only then, at less zero seconds, if the computers are convinced that the engines work properly, they give the order to turn on the full rockets. In less than a second, they reach 6.6 million pounds of thrust. And at the same time, computers give the order to explose the explosive bolts, and 4.5 million pounds of spatial vehicles are raised majestically by its launch ramp. It is an incredible demonstration of hardware ability. But no human being presses a button to make it happen, no astronaut jockey a joy stick to adjust the shuttle in orbit. The right thing is the software chokes the engines to make sure the boat does not accelerate too quickly. It keeps track of the shuttle to orbit to more than 100 miles higher. When the software is satisfied with the position of the shuttle in the space, order the main motors to turn off «the absence of weight starts and everything starts to float. But the amount of work does not be Software never crashes. It never needs to be restarted. This software is free of bug. It is perfect, perfect as humans have reached. Consider these statistics: the last three versions of the program, each of 420,000 lines, they had only one error each. The latest 11 versions of this software is the work of 260 women and men living in an anonymous office building in front of the Johnson Space Center in Clear Lake, Texas, to the south-east of They work for the "shuttle on board group", a subsidiary of Lockheed Martin Corps, Space Mission Systems Division, and their skills are famous all over the world to conquer the 5th level ranking of the federal governments of the Software group is one of the world to conquer the 5th level ranking of the federal governments of the Software group is one of the world to conquer the 5th level ranking of the federal governments of the Software group is one of the world to conquer the 5th level ranking of the federal governments of the Software group is one of the world to conquer the 5th level ranking of the federal governments of the software group is one of the world to conquer the 5th level ranking of the federal governments of the software group is one of the world to conquer the 5th level ranking of the federal governments of the software group is one of the world to conquer the software group is one of the world to conquer the software group is one of the group is one of the software group is one of the group is one o In fact, the SEI based IT standards in part to look at the Shuttle group on board, do its job. The group writes software this good because it is beautiful. Whenever the shuttle lights up, their software is controlling a piece of equipment from \$4 billion, the life of a half dozen astronauts and nation's dreams. Even the smallest error in space can have huge consequences: the orbiting space shuttle travels at 17,500 miles per hour; A bug that causes a timing problem of only two-thirds of a second puts the Senior Technical Manager of the Shuttle Group on board, flies to Florida where he signs a document that certifies that the software does not jeopardize the shuttle. If Keller can't go, a formal line of sequence called that allows to sign his place. bill pate, who has worked on space flight software over the last 22 years, [/ url] says that the group includes mail: †"If the software is not perfect, some of the people we go to meetings with could die. In the history of human technology, nothing became essential as fast as software. Virtually everything ât works on software. In cars, transmission, ignition timing, air bag, door locks are also controlled by software. In most cities so are the traffic lights. Almost all written communications that are more complicated than a postcard depends on the software is everything. "Like the pre-Sumerian civilization," says Brad Cox, who wrote the software for Steve Jobs Next Computer and is professor at George Mason University. â € "The way we build software is in the hunter-gallery phase.» John Munson, a software engineer and professor of computer science at the University of Idaho, is not so generous. †"Says. â€" "It's primitive. We presumably teach computer science. There's no science here. Software could feed the post-industrial world, but software creation remains a pre-industrial business. According to SEI studies, nearly 70% of software creation remains a pre-industrial business. According to SEI studies, nearly 70% of software creation remains a pre-industrial business. software pioneers from companies like Microsoft burst to teach the art of software creation (cf. € "Sopra and codes me twenty! Â €) Mark Paulk, a a A member of SEI Technical, he says the success of the software products. We are critically dependent on it â " asys Paulk. Yet Everyone complains as it is the bad software, with all the flaws. If you bought a car with 5,000 defects, you're very upset. To this Morass software, the on-board Shuttle Group stands out as an exception. Ten years ago, the shuttle group was considered world class. Since then, it has cut its error rate by 90%. To be so good, the Shuttle group on board must be very different - the antithesis of the up-all-night, pizza-roll-nockey Software coders who have captured the public imagination. To be so well, the on-board shuttle group must be very different - the antithesis of the up-all-night, pizza-roll-nockey Software coders who have captured the public imagination. To be so well, the on-board shuttle group on board must be very different - the antithesis of the up-all-night, pizza-roll-nockey Software coders who have captured the public imagination. the Group offers a set of manual lessons that apply equally to programmers, in particular and producers, in general. A look at the culture they have built and the process they have perfected shows what software writing has to become if the software is to fulfill its promise, and illustrates what almost any team-based operation can do to boost its performance to get near-perfect results. Adult Software - Shipping Hell continued today. Grind, grin board. It's Douglas Couplandâ ⢠Ã"MicroserfÂ" â â"¬ "An imaginary account of the life of life in software-Vanne. And it is the dominant image of the software development world: Gen-Xers Sporting T-shirt and distracted looks, squeezed too much heroic code that writes in too little time; Rollerblades and mountain bikes hidden in the corners; Pizza box cups and Starbucks mugs discarded in conference rooms; Dueling Tunes by Smashing Pumpkins, Alanis Morrisette and Fugees. It is not the story of the Shuttle group on board. Their quarters are a studio in the pedestrian of the white collar. The most amazing thing is how ordinary they look. In addition to the occasional busy shuttle heirlooms, you could be in the offices have desks, PCs and personal artifacts scattered around. People wear moderately stylish clothes to work, clean but nothing flashy, certainly nothing of Grungy.it strictly a guy from 8 to 5 of the place - there are late evenings, but it⢠re The programmers are but low-key. Many of them put in the years working for IBM (which owned the shuttle group until 1994), or directly on the shuttle They adults, with spouses and children and live beyond their remarkable software program. This is the culture: the Shuttle Group on board produces adult software and the way they do it is cultivated. It may not be a journey into ego in coding †"but it is the future of the software and the way they do it is cultivated. It may not be a journey into ego in coding †"but it is the future of the software and the way they do it is cultivated. It may not be a journey into ego in coding †"but it is the future of the software and the way they do it is cultivated. It may not be a journey into ego in coding †"but it is the future of the software and the way they do it is cultivated. It may not be a journey into ego in coding †"but it is the future of the software and the way they do it is cultivated. 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It may not be a journey into ego in coding a future of the software and the way they do it is cultivated. It may not be a journey into ego in coding a future of the software and the way they do it is cultivated. It may not be a journey into ego in coding a future of the software and the software and the way they do it is cultivated. It may not be a journey into ego in coding a futur that is just good enough at "then it's time to grow. Senior technical manager of the group, looks and plays as the principal of a small private school. It is Keller's work, make sure the software is delivered in time, with all its capabilities of any astronaut would find reassuring. He has a sense of gentle humor and geeky, not so much with strangers, but with his crowd. He arrives at a meeting between software group members and their NASA counterparts. It is held in a small conference room padded with 22 people and a projector in the head. Several times, from the back of the room, Keller emits an observation wrapped on the speed of the delivery of the code, or the detail of some specifications, and the room lights up with laughter. Aboutions, the long-term encounter is sober and revealing, a short window on culture. For one thing, 12 of the 22 people in the room are women, many of their senior executive rights or technical staff. The group shuttle on board, with its stability and professionalism, seems particularly attractive to women programmers. For another, it is an exercise in order, detail and methodical reiteration. The meeting is a classic performance of NASA †"a test for an almost identical meeting several weeks away. It consists of walking through a huge data package and displaying charts that describe the progress and status of the software line by line. With the exception of the occasional Keller Asidi, the tone is similar to the study, almost formal, the viewpoint âf "the graphs that flash the past as quickly as they can be read, a blur of acronyms, graphs and graphs. What is going on here It is the type of dice-andbulbs that work that defines the converter for the perfection of the group, there are no superstar programmers. The whole approach to software development is intentionally designed to not rely on any particular person. And culture is equally intolerant to creativity, the single coding flourishes and styles that are the signature of the software world all night long. â € "Call them, isn't this process to suffocate creativity? You have to do exactly what the manual says, and you have someone looking over your shoulder, Keller. Ã ¢ â, ¬ "The answer is, yes, the process makes the creativity suffocate." And this is the point Å ¢ â,¬ "you can't free the people through the software code flying to a spaceship, and then, with with lives according to it, try to flatten it once in orbit. †"houston, we have a problem, af "may do for a good movie; it is not the way to write software. af "People must channel their creativity into changing the process," keller says, "to peek the software." The group's practices can make the song of the siren of software for seven years when he left last January to go to work for micron technology in boise, idaho, automating the production of micron.at micron memory chips, larson was given the task of automating the saws that cut the wafer chips finished to the right size. Screw the precious wafers. «I was about to decide what to do, âf says larson, culture will not focus, well the right stuff. †"speed was the biggest thing, â€" he says. †"The engineers would say, these are our most important priorities, and we need to arrive" em as quickly as possible. but the larson impression was that engineers would say, these are our most important priorities, and we need to arrive em as quickly as possible. but the larson impression was that engineers were not too worried about how well the finished software actually worked. †"basically, they wanted a quick software â€" simply put it out of the door. »Larson started at the shuttle group in mid-August. †"People here are only of the highest calibre, â€" said on his first day back in the clear lake. The process of processhow write the right stuff? the answer is, it's the process . the most important creation of the group is not the perfect software they write - it's the process they invented that writes the perfect software. the process that allows them to live normal life, to set deadlines actually meet, to stay on budget, to provide software that does exactly what it promises. is the process that defines what these encoders in the flat plain plains of the suburban south-east houston know that all others in the software world is still trying. is the process that offers a model for any creative enterprise looking for a method to produce consistent - and constantly improve quality. the process that offers a model for any creative enterprise looking for a method to produce consistent - and constantly improve quality. the process that offers a model for any creative enterprise looking for a method to produce consistent - and constantly improve quality. place before anyone writes a code line. the nasa group and the lockheed martin group agree in the details more minutes of everything that the new code should do ât "and commit that the understanding of the card, with the type of specifications has changed without agreement and understanding both sides. And no coder changes a single line of code without specific to carefully edit. Take the software update to allow the shuttle to navigate with global positioning satellites, change change only 1.5% of the program, or 6,366 code lines. The specifications for that change are 2,500 pages, a volume more often than a column. The specifications for the current program fill 30 volumes and perform 40,000 pages. "Our requirements are almost pseudo-code," says William R. Pruett, who runs the software project for NASA. "They say, you have to do exactly this, do it exactly like this, given this condition and this condition." This accurate design process alone is enough to put the shuttle organization in a class itself, says John Munson of the University of Idaho. Most organizations launch in even great projects. So, after the coders have already started writing a program, the customer is changing his design. The result is a chaotic and expensive programming in which the code is constantly changed and infected by errors, even as it was designed. "Most people choose to spend their money at the wrong end of the process," says Munson. "In the modern software environment, 80% of the cost of the software is spent after the software is written the first time — they do not get right the first time, so spend time floating. They do it the first time. And they don't change the software without changing the blueprint. That's why their software group, there are subgroups and subcultures. But what could be the divisive office policy in other organizations is actually a critical part of the process. The central group breaks into two key teams: coders - people who sit and write code - and auditors — people who try to find defects in code. The two dresses report to separate bosses and work under opposite orders. The development group should provide completely error-free code, so perfect that the testers do not find faults at all. The test group should put me away from the code with flight scenarios and simulations that reveal as many possible defects. The result is what Tom Peterson calls "a friendly adversary relationship." I'm competing for those who are about to find mistakes," Keller says. "Sometimes they fight like dogs and cats. Developers want to capture all their mistakes. Verifiers get angry, 'Hey, give up! You're taking off our time to test the software! "" Developers also started their formal code inspections in carefully moderate sessions, a rigorous test reading that hope to confuse the testers. "From the point of view of the verification group, "says PatA senior manager, â € œWe know that if there was no independent verification group, developers tend to be more LAX. Only the presence of our group makes them more results of this friendly rivalry: the shuttle group now finds 85% of its errors before starting formal tests, and 99.9% before the program is delivered to NASA.3 The databases in their completeness. One is the software, two huge databases under the software, two huge databases under the software, two huge databases, encyclopediacs in their completeness. One is the history of the code itself — with each annotated row, showing each time it has been changed, when it has been changed, which has been changed, whe changed, what purpose of change has been, what specific documents detail change. Everything that happens to the program is recorded in its main history. The genealogy of each line of code — the reason it is — is immediately available to all. The other database — the database of errors — is a sort of monument to the way the group of onboard shuttles goes about its work. Here is recorded every single error ever made during writing or working on software, returning almost 20 years. For each of these errors, the database records when it was discovered — tests, training or flight. It traces how the error was introduced in the program; how the error was introduced in the program in the through the same holes. The group has so many data accumulated on how it does its work that wrote software programs that shape the code writing process. As computer models predicting time, coding models predict how many errors the group should make in writing every new version of the software. It is true to form, if the coders and testers find too few errors, each works the process until reality and forecasts match. "We never let anything go," says Patti Thornton, a senior manager. "Let us do the opposite: let everything bother us." A Not only solve errors — solve anything allowed error first. The process is so pervasive, you take the blame for any error — if there is a defect in the software, there must be something wrong in the way its being written, something that can be corrected. Any error not found in the planning stage has slipped through at least some controls. Why? Is there something wrong with the inspection process? Should a question be added to a checklist? Important, the group avoids blaming people for mistakes. The process takes the blame - and it is the process that is analyzed to find out why and how an error has passed. At the same time, the It's a team concept: no person is always responsible for writing or code inspection. â € œIn is punished to make mistakes, says Marjorie Seiter, a one Member of the technical staff. â"If I make a mistake, and others have examined my work, then I am not alone. I haven't been blamed for this. A ""Ted Keller provides an example of the payoff approach, which involves the arm of the remote manipulator of the shuttles. a "Ted Keller provides an example of the payoff approach, which involves the arm of the remote manipulator of the shuttles. a "Ted Keller provides an example of the payoff approach, which involves the arm of the remote manipulator of the shuttles." to a certain point, it just stopped moving. "The software was confused due to a programming error. As the remote arm's wrist approached a full rotation - which the software knew was wrong. The problem had to do with rounding the answer to a normal math problem, but it revealed a cascade of other problems. "Although this wasn't crucial, itâ" says Keller, â" "One of them involved the high-gain antenna pointing routine", says Keller. a "That main antenna. If he had developed this problem, he could have disrupted communications with the ground at a critical time. This is much more serious. "The way the process finds errors in the process finds errors in the process. Watching a software problem The Bomber B-2 didn't want to fly on its girl's flight "but it was just a software problem. This spring, the European Space Agency, the New Ariane 5 Rocket exploded on its maiden launch due to a small software problem. The major federal government agencies "From the IRS to the national meteorological service - are allocated to projects that are years behind schedule and hundreds of millions of dollars on the budget, often due to a small software problems. Software is becoming more and more common and more important, but it doesn't seem to be more and more reliable. For the edges of the shuttle group on board getting closer to perfect Software world. They have a single product: a program that flies a spaceship. They understand their software intimately and become more familiar with it all the time. The group has a client, a smart one. And money is not the critical constraint: groups \$35 million a year budget are a trivial slice of NASA's pie, but on of dollars-per-line, makes the group among the nation's most expensive software organizations. And that's the point: the shuttle process is so extreme, the guide to perfection is so focused, which reveals what have been to get a relentless execution. The most important things that the shuttle group does - "planning the projects, keeping a completely accurate code record - are not expensive. The trial isn't even a missile science in almost all engineering disciplines except software engineering. Carved on a wall of the conference room, an informal slogan of the shuttle group on board captures the essence of staying focused on the process: "The sooner you stay behind, the longer you'll have to catch up. "Charles Fishman (fish@nando.net) is a writer from Raleigh, North Carolina. Carolina.

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