GLOBAL NETWORK STRUCTURE OF DOMINANCE HIERARCHY OF ANT WORKERS

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Do ants have a dominance hierarchy? We demonstrate that reproduction is regulated by a dominance hierarchy in the queenless ant D. quadriceps and discuss the mechanism and the dynamics of such regulation. Workers with different dominance ranks have distinct behavioral profiles, and rank correlates with egg-laying activity.

What is the ant hierarchy? Ants have separate castes, which are groups of ants that complete a certain duty. Ant castes are queens, workers and males. The queen ant lays eggs. Males die not long after they mate. The worker ants are female ants and most of them stay in the ant nest and complete tasks like tending to the young.

What is the structure dominance hierarchy? In a dominance hierarchy, individuals are arrayed in a line from most to least dominant; individuals are dominant to those below them in the hierarchy and subordinate to those above them in the hierarchy. In most social groups, dominance hierarchies are more linear than expected by chance [84].

What is the dominance hierarchy ranking system? The relationships in a dominance hierarchy are called dominance-subordination relationships, or dominance-submission relationships. The higher ranking individual is considered a dominant individual, while the lower ranking individual is called submissive or subordinate (Jozifkova 2014).

Can ants dominate the world? The ants would be uncontested in their conquest of the world and, with their massive resistance to radiation, they could live and rule a world after a nuclear exchange.

Is there a leader in ants? She makes them take care of the babies. And she ensures that new eggs are produced so the colony can grow. But this isn't exactly how it works. Yes, the queen ant is considered the leader of the ant colony but she is not actively controlling the actions of the rest of the ants.

How do ants decide who is queen? A female ant's fate to become a worker or queen is mainly determined by diet, not genetics. Any female ant larva can become the queen – those that do receive diets richer in protein. The other larvae receive less protein, which causes them to develop as workers.

What is the structure of an ant society? Ant Societies. Ants are social insects which form small to large colonies. A typical colony contains an egg-laying queen and many adult workers together with their brood (eggs, larvae and pupae). Workers are by far the most numerous individuals in the nest.

What is the monarchy of ants? It should be noted that despite the royal title, the queen ant has no real authority over a colony. She does not direct other ants or make decisions for the colony. Instead, she – just like every other ant in the colony – is motivated by instinct and a general sense of how she can provide for colony needs.

What is the dominance hierarchy order? dominance hierarchy, a form of animal social structure in which a linear or nearly linear ranking exists, with each animal dominant over those below it and submissive to those above it in the hierarchy.

What are some examples of dominance hierarchies? The best known dominance hierarchies, such as those in flocks of domestic hens, are linear, meaning that there is one individual (A) that dominates the others, there is a second individual (B) that dominates all others except A, there is a third individual that dominates all the others except A and B, and so on, so ...

Do humans have a dominance hierarchy? Empirically, pairwise dominance relations often form a linear order or dominance hierarchy in an enormous range of

species, including chimpanzees and bonobos [5–10] and humans [11–17].

Do humans have a pecking order? Dominance hierarchies (sometimes called "pecking orders") are virtually universal in social species, including humans. In most species and in ancestral and early human societies, these hierarchies allocate scarce resources, including food and often access to females.

What is hierarchical rank structure? A hierarchical structure is typical for larger businesses and organisations. It relies on having different levels of authority with a chain of command connecting multiple management levels within the organisation. The decision-making process is typically formal and flows from the top down.

What does a dominance hierarchy specifically refer to? A dominance hierarchy refers to the ranking system that results from competitive interactions between individuals in group-living mammals. It influences their behavior, reproductive success, and overall health.

Who controls the ants? Queens head the colonies and lay thousands of eggs to ensure the nest's survival. They are typically larger than workers. Reproductive male ants mate with the queen and may die afterwards.

Would ants beat humans in a war? Calculated up, people definitely outweigh ants, at least in modern times. If we were to have had this competition just 100 years ago, they would have stood supreme.

Do ants work harder than humans? They really do have super strength While you don't need to worry about that happening at your next al fresco meal, ants do possess superior strength. In fact, they can lift between 3,400 times and 5,000 times their body weight, according to a study published in Science Daily(Opens in a new window).

Can a worker ant become a queen ant? The team found switching the expression of just a single protein, Kr-h1, in the brains of ants is enough to elevate an ant from worker to queen. Kr-h1's responds to two hormones: one found more in workers, and one found in greater abundance in queens.

Who is the leading authority on ants? E.O. Wilson was an American biologist recognized as the world's leading authority on ants. He was also the foremost

proponent of sociobiology, the study of the genetic basis of the social behaviour of all animals, including humans.

How do ants know who is the queen? Besides their incredible strength, almost all of these species have something in common: queens. Ants adhere to a caste system, and at the top is the queen. She's born with wings and referred to as a princess until she takes part in the nuptial flight, mates with a male ant, and flies off to start her own colony.

Do ants have a chain of command? Ant colonies are not the only complex systems that function without central control. Brains, too, have no chain of command. They rely on interaction networks among neurons.

Do ants have a commander? Ants do not need a leader, and no ant ever tells another what to do. Ant colonies are not the only systems in nature to operate without central control.

Do ants have a boss? Ants are self organizing insects, as they do not have a boss or a general of any kind. Of course all ant colonies have a queen, but the queen is only tasked with laying eggs, the queen does not take time to issue orders to the entire colony.

Are ants the most dominant insect? Ant Diversity Today The most dominant insect on Earth, ants are so abundant in the tropics alone that their biomass actually outweighs that of all vertebrate animals 2:1!

Shahmukhi Punjabi: Unveiling the Script of Punjab

Question 1: What is Shahmukhi Punjabi?

Shahmukhi Punjabi is a script used to write the Punjabi language. It is the official script of the Pakistani province of Punjab and is also commonly used in India. Shahmukhi is a modified form of the Perso-Arabic script, which was brought to the Punjab region by Muslim settlers in the 12th century.

Question 2: How does Shahmukhi Punjabi differ from Gurmukhi Punjabi?

While both Shahmukhi and Gurmukhi are used to write Punjabi, they are distinct scripts. Gurmukhi is the official script of the Indian state of Punjab and is primarily used by Sikhs. It was developed by Guru Angad, the second Sikh guru, in the 16th century.

Question 3: Is Punjabi only spoken in Punjab?

No, Punjabi is spoken not only in the Punjab region but also in various parts of India, Pakistan, and the diaspora. Significant Punjabi-speaking communities exist in Delhi, Haryana, and Himachal Pradesh in India, as well as in Sindh and Balochistan in Pakistan.

Question 4: What is the significance of Punjabi?

Punjabi is a vibrant and rich language with a long literary and cultural tradition. It is the 11th most spoken language in the world, with over 100 million native speakers. Punjabi literature spans centuries and includes works from renowned poets, such as Waris Shah and Bulleh Shah.

Question 5: How can I learn to read and write Shahmukhi Punjabi?

There are various resources available to learn Shahmukhi Punjabi, including online courses, textbooks, and language classes. Immersive experiences through travel or interacting with native speakers can also enhance language acquisition. Consistency and dedication are essential for becoming proficient in reading and writing Shahmukhi Punjabi.

The Art of Explanation: Making Your Ideas, Products, and Services Easier to Understand

By Lee LeFever

In today's fast-paced world, it's essential to be able to communicate your ideas, products, and services clearly and effectively. Lee LeFever's book, "The Art of Explanation," offers practical strategies to help you make your messages more accessible and impactful.

Q: Why is explanation so important?

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A: Clear explanation can help you build trust, increase sales, improve customer satisfaction, and enhance collaboration. When people understand your concepts and offerings, they are more likely to engage with them and make informed decisions.

Q: What are some common obstacles to effective explanation?

A: Obstacles can include using jargon, overcomplicating information, failing to consider your audience's knowledge level, and relying on abstract language. LeFever provides tools to overcome these challenges and create clear, concise explanations.

Q: What techniques can you use to craft compelling explanations?

A: LeFever recommends using analogies, metaphors, and stories to make your points relatable and memorable. He also emphasizes the importance of breaking down complex ideas into smaller chunks, providing visual aids, and tailoring your message to your specific audience.

Q: How can you improve your explanation skills?

A: Practice is key. LeFever suggests writing and rewriting your explanations, seeking feedback from others, and using technology to enhance your presentations. Additionally, studying examples of effective explanation can inspire and refine your own approach.

Q: What resources are available to help you deepen your understanding of explanation?

A: LeFever's book, "The Art of Explanation," is a comprehensive guide to this essential skill. It includes exercises, case studies, and practical tips to help you create clearer and more engaging messages. Additionally, online courses, workshops, and mentorship programs can provide further support and inspiration.

How are PICAXE microcontrollers programmed? A PICAXE microcontroller is a Microchip PIC microcontroller that has been preprogrammed with the PICAXE bootstrap code. The bootstrap code enables the microcontroller to be reprogrammed without the need for an (expensive) conventional programmer, making the whole

download system a very low-cost simple serial cable!

What programming language does PICAXE use? The PICAXE uses a simple BASIC language (or flowcharts) that younger students can start generating programs with within an hour of first use. It is much easier to learn and debug than either C or assembler code. The second advantage is the direct cable download method.

Is PICAXE obsolete? PICAXE Programming Editor 5 (PE5) is obsolete and no longer developed.

What is a picaxe 08M2 chip and what does it do? The smallest, but most popular, PICAXE microcontroller. Very popular in education due to its low cost and small size. What's more, the Picaxe 08M2 Chip is also very popular in a wide range of hobbyist projects. Small but perfectly formed! This chip supports up to 6 inputs/outputs with 3 analogue/touch sensor channels.

How to program a microcontroller step by step?

What programming language is used for microcontrollers? C and C++ are popular languages for microcontroller programming due to their low-level access to hardware and high performance. These languages are widely used in embedded systems development and offer a range of features and libraries that make them suitable for various applications.

Is PICAXE Editor free? The software for BASIC programming is completely free and available for Windows, Mac and Linux.

What can a PICAXE do? The PICAXE chip can react to input sensors and switch outputs on and off accordingly. The various different PICAXE chip sizes (8, 14, 18, 20, 28 and 40 pins) give great flexibility on how the system can be used - simply select the chip size as required for your project.

What voltage is a PICAXE supply? You have now programmed a microcontroller using the PICAXE system! At a glance - specifications: Power Supply: 4.5V or 5V DC is recommended.

What are the different types of PICAXE? PICAXE chips come in two series – the M2 and X2 series – and 6 physical sizes (8, 14, 18, 20, 28, 40 pin).

Who created PICAXE? PICAXE® products are developed and distributed by Revolution Education Ltd, a privately owned limited company in Bath, South West England.

How do you reset PICAXE? For all PICAXE a 'hard reset' can be achieved by removing power and reapplying it soon after the download is initiated. For the 28X2 and 40X2 (and earlier 28-pin and 40-pin devices, plus 18M and 18X) a 'hard reset' can also be achieved by taking the 'reset' pin low for a brief time.

What is PicAxe info? The PicAxe chip is a microprocessor with built in flash ram, digital and analogue inputs, internal watchdog timers, and digital outputs. The little chips are pre-programmed with a boot loader program, which lets it talk to your computer via a serial cable.

How does a microcontroller get programmed? Microcontroller programming boils down to three steps: write program code on your computer. compile the code with a compiler for the microcontroller you are using. upload the compiled version of your program to your microcontroller.

How does PICAXE work? A PICAXE chip is a standard Microchip PIC microcontroller that has been pre-programmed with the PICAXE bootstrap firmware code. The bootstrap code enables the PICAXE microcontroller to be re-programmed 'in position' directly via a simple 'three wire' download cable connection.

Are microcontrollers programmed in C or C++? C language is still the most common programming language for embedded microcontrollers. The C language spec has evolved, yet compiler adoption to the upgrades takes time. Comments with "//" is one example. Most of C++ improvements can be coded in C with less readability (structure with function pointers members....).

Can microcontrollers be programmed with Python? Basically, Micropython is a lean and efficient implementation of the Python programming language. It is tiny and open source that runs on small embedded development boards which are your microcontrollers!

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