DISCUS BREEDING FOR BEGINNERS

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Is breeding discus easy? Discus Breeding Level – Difficult Captive bred discus will pair up and spawn relatively easily, but young, inexperienced parents may eat their eggs the first few times, particularly if other fish are present.

How do you keep discus fish for beginners? 3-5 discus should be doable in a 55gal aquarium as long as water changes are kept up with. A general rule you can follow is one discus per 10 gallons. Since these fish are tall, do not keep them in shallow tanks. The UNS 90U, 120P, and 120U are all high quality aquariums that would be great for discus!

What is the best TDS for discus breeding? The Jack Wattley folks swear the following is absolutely required for breeding discus: 35 to 80 microsiemens per centimeter conductivity (this corresponds to 23 to 54 TDS or ppm) pH of 5.5 to 6.5.

What is the best food for discus breeding? White worms are also especially beneficial for stimulating the conditioning and breeding of discus fish as they are also high in fat, allowing the fish to quickly add size and mass. Another popular food type among discus keepers is beef heart, which is typically frozen.

How to trigger discus to breed? The three stimulants for breeding Discus fish are water pH, temperature and water hardness. Thus, the winter or rainy months are considered a stimulus for Discus breeding, as they thrive in a more alkaline environment with softer water and cooler temperatures.

Why are discus so hard to keep? Water is the first thing to get right first as we have already looked at. If you don't have the correct conditions, you will never successfully keep discus. If you keep your water parameters right, discus are then just as easy to keep as any other tropical fish.

Do discus really need daily water changes? Change your discus' water frequently if you can. But if you can't change it frequently, just make sure you change it at least once a week. In special cases you may need to change the tank's water daily. Examples include when rearing young fry or when medicating your discus.

What size tank for 2 discus fish? What Size Tank Do You Need for Discus? Bigger is always better, so we personally recommend a 75-gallon aquarium or larger. You can do a 55-gallon tank, but then you're forced to do a lot of water changes. Remember that these fish get big, usually 5 to 7 inches in diameter if you're doing things right.

How many discus per litre?

What is the best tank to breed discus?

What is the best filter for discus breeding? The most preferred Discus fish filters are mainly internal and HOB (hang on back) filters even though canister filters are also preferred for larger fish tanks. The main reason why internal and HOB filters are preferred for Discus fish is because Discus fish are very messy when they eat.

How big should a discus breeding tank be? To sum up a breeding aquarium for discus is… An aquarium of about 100 litres.

How do I know if my discus eggs are fertile? If the eggs were fertilized they will be a goldish color. If the eggs were not fertilized they will be a white cotton like color. The white eggs will not hatch and usually the discus pair will eat the white eggs.

How often will discus breed? When and if the discus spawn in this stage, they will lay eggs every week for up to fifteen weeks. This cycle usually occurs twice a year and can be rigged with careful adjustment of feeding, temperature and water conditions.

How do I stop my discus from eating their eggs?

Is breeding discus hard? In this case, 83% of readers who voted found the article helpful, earning it our reader-approved status. Discus are quite difficult to care for and breed, and you may not achieve a high survival rate for the young on your first

attempt.

Why are my discus chasing each other? Fish aggression, which can be represented by chasing, body slapping and picking, is a sign of health. Sick discus fish never display aggression. A healthy fish may intimidate a sick fish, but two sick fish will not chase, nip and threaten one another with body slapping.

How can I make my discus grow faster? Temperature is also very important when growing out discus fish. The warmer your aquarium is the more it will stimulate appetite; your fish will eat more and grow faster.

What is the life span of discus? In home aquariums, discus live for an average of 10 years, but can live up to 15 years, and can grow up to 8 inches. Like many fish in the home aquarium, they will eat almost anything that fits within their mouth. Due to their size, they often require a minimum 55 US gal (210 L) – 75 US gal (280 L) aquarium.

How do you know if discus is stressed? Common symptoms of stress include: Fish stays near the surface gasping for breath, indicating that it has trouble getting enough oxygen (the concentration of dissolved oxygen is highest near the water's surface).

What is the problem of discus fish? Some of the most common diseases and health issues that can affect Discus fish include: 1. Hole-in-the-head disease: This is a bacterial infection that causes lesions to form on the head and body of the fish. It can be caused by poor water quality, stress, or a lack of proper nutrition.

Do discus need UV light? A UV may not be essential, but they are a very handy tool for the Discus keeper.

Do discus like high flow? Discus fish do not like strong water currents. They, therefore, do not feel comfortable in planted high-tech aquariums with external high-performance filters, which are required to maintain such aquariums. The filter's flow rate should be at least 3 to 4 times the net volume of the aquarium.

Do discus need worming? All fish, including Discus, get worms. So, it's important that you deworm your Discus regularly. If possible, you can perform this treatment every 3-6 months.

Do discus need an air pump? Water circulation in your Discus fish tank is very important. The main purpose for the water circulation in the fish tank is to enable the Discus fish has enough supply of oxygen. There are two ways one can ensure water circulation in a fish tank, namely; by use of power heads and by use of air pumps.

Can you keep discus in a 200 Litre tank? So we recommend an aquarium of 180 litres as an absolute minimum size, and in this you can house a group of 10 juvenile Discus. 10 adult Discus (14cm +) without companion fish and minimal plants / bog wood etc will require a minimum of 350 litres.

How old is a 2 inch discus?

Which is the easiest breeding fish? Guppy (Poecilia reticulata) Guppies are one of the most popular beginner fish for the freshwater aquarium, and it's no wonder. They are very easy to care for, they breed readily, they come in a wide range of beautiful colors, and they get along well with other fish that are similar in size and temperament.

How often will discus breed? When and if the discus spawn in this stage, they will lay eggs every week for up to fifteen weeks. This cycle usually occurs twice a year and can be rigged with careful adjustment of feeding, temperature and water conditions.

Is it hard to breed fish? Most species of livebearers kept in home aquariums are generally easy to breed. Identifying sexes is usually easy as well. Males are generally larger and have larger, longer, more ornate, and more colorful fins than females.

How long does it take for baby discus to grow? A 2 ½ inch discus fish is only three months old when they are shipped to customers. The growth rate from 2 ½ inch to 4 inch keeping the fish in a small aquarium will only take four more months.

What fish reproduces the fastest? Guppy fish are livebearers. With proper maintenance and a living environment, guppy fish can reproduce once a month or twice every three months. The gestation period is about 21–30 days. They can produce 10-100 small fish at one time, while some even produce more than 100 fish each time.

What is the best fish to breed for profit? Although they may go for a higher price, don't breed fish like discus, stingrays, or rarer African cichlids because not enough people buy them and you'll end up with a surplus of fish. Instead, breed something like assorted guppies that sell for less but are always in demand.

What is the most low maintenance fish? What is the most low maintenance fish? Great pets for beginners that can be relatively low maintenance include some Tetras, Rasboras, Danios, White Cloud Mountain Minnows, Swordtails, Plaites, Mollies, Cory Catfish and Betta Fish.

Is breeding discus worth it? However, a guaranteed mated breeding couple may be a good idea since a pair of Discus usually mates for life. That said, you are looking at a very expensive proposition, mated pairs can run into the thousands, depending on the strain.

What is the best tank to breed discus?

What is the life span of discus? In home aquariums, discus live for an average of 10 years, but can live up to 15 years, and can grow up to 8 inches. Like many fish in the home aquarium, they will eat almost anything that fits within their mouth. Due to their size, they often require a minimum 55 US gal (210 L) – 75 US gal (280 L) aquarium.

How can I make my fish breed faster? Provide them with an abundance of high-protein food, feeding more often than you would normally feed your community aquarium fish, typically three times daily. You are preparing them for breeding, so they must have sufficient energy in their bodies for their own maintenance and growth as well as to produce eggs.

Why do my fish never breed? Some fish species are very sensitive to tank conditions such as pH level and temperature, and they are much less likely to breed when the tank is outside their optimal range.

Why fish does not breed in captivity? Some species are only available captive-bred, while others are notoriously hard to breed in captivity because their natural environments are hard to replicate in a tank.

At what size do discus start breeding? Females usually mate at about 9 months of age, while males usually mate at 13 months.

How do I get my discus to breed? Another way to initiate breeding in your discus fish is to separate the male and female pair. Using either a totally different tank, or a tank divider, you can separate the pair from each other, ensuring no contact is made between the two fish. During this time, the female should be readily fed.

How to grow discus fast? THE KEY TO EXPLOSIVE DISCUS GROWTH: FREQUENTLY CHANGING THE WATER. What do you think is the most important thing you can do to help your discus grow huge? Well, Jack Wattley did an experiment proving that frequently changing your discus' water is one of the most important keys to massive discus growth.

Signal Processing for Neuroscientists: Advanced Topics, Nonlinear Techniques, and Multi-Channel Analysis

Author: Wim van Drongelen

Publisher: Academic Press, 2010

Q1: What is the purpose of this book?

A: This book provides an advanced guide to signal processing techniques specifically tailored for neuroscientists. It covers nonlinear methods, multi-channel analysis, and advanced techniques for analyzing brain signals.

Q2: What is the target audience for this book?

A: The book is intended for neuroscientists, electrical engineers, and students interested in advanced signal processing methods for analyzing brain data. It assumes some prior knowledge of signal processing basics and Fourier analysis.

Q3: What are the key features of this book?

A: Key features include:

- Coverage of nonlinear techniques such as wavelets, time-frequency analysis, and nonlinear dynamics
- Comprehensive treatment of multi-channel analysis, including beamforming and sensor arrays
- Exploration of advanced methods such as independent component analysis (ICA) and canonical correlation analysis (CCA)
- MATLAB examples and exercises for hands-on practice

Q4: What are the benefits of using this book?

A: Benefits include:

- Improved understanding of advanced signal processing techniques for neuroscience
- Enhanced ability to analyze complex brain signals, such as EEG, MEG, and fMRI
- Access to cutting-edge methods for extracting meaningful information from brain data

Q5: What is the format of this book?

A: The book is divided into 11 chapters, each covering a specific topic in signal processing for neuroscience. It provides both theoretical background and practical examples, making it suitable for both theoretical study and practical implementation.

The Pros and Cons of Using Social Media in Vetting Job

Social media has become an integral part of our lives, and it's no surprise that employers are increasingly using it to vet potential candidates. But what are the pros and cons of using social media in the hiring process?

Pros:

- **Social media can provide valuable insights into a candidate's personality and values.** What they post and share on social media can give you a sense of their interests, hobbies, and beliefs. This information

can be helpful in determining whether a candidate is a good fit for your company culture.

- **Social media can help you spot red flags.** If you see a candidate posting offensive or discriminatory content, for example, it's a red flag that you should consider before hiring them.
- **Social media can help you verify a candidate's qualifications.** If a candidate claims to have certain skills or experience, you can check their social media profiles to see if they've posted any relevant content.

Cons:

- **Social media can be biased.** Studies have shown that people tend to present a more positive and polished version of themselves on social media. This means that you may not be getting a complete picture of a candidate's personality or values.
- **Social media can be inaccurate.** People sometimes post inaccurate or misleading information on social media. It's important to be aware of this and to verify any information you find on social media before making a hiring decision.
- **Social media can be invasive.** Some people may feel uncomfortable sharing their social media profiles with a potential employer. It's important to respect their privacy and to ask for their consent before viewing their profiles.

Here are some questions and answers about using social media in vetting job:

Q: Is it legal to use social media to vet job candidates? **A:** Yes, it is legal to use social media to vet job candidates. However, it is important to do so in a responsible and ethical manner.

Q: What should I look for when vetting a job candidate's social media profile? **A:** You should look for any content that could raise concerns about the candidate's character or fitness for the job. This includes any posts that are offensive, discriminatory, or illegal.

Q: How should I use social media information in my hiring decision? **A:** You should use social media information as one of many factors in your hiring decision. It is important to remember that social media is not a perfect indicator of a candidate's character or qualifications.

Q: What are the risks of using social media to vet job candidates? **A:** The main risk of using social media to vet job candidates is that you may make a hiring decision based on inaccurate or incomplete information. It is important to verify any information you find on social media before making a decision.

Conclusion:

Social media can be a valuable tool in the hiring process. However, it is important to use it responsibly and ethically. By being aware of the pros and cons of using social media, you can use it to make informed hiring decisions.

Do Siemens PLCs use ladder logic? Ladder logic (LAD) is one programming language used with PLCs. Ladder logic incorporates programming functions that are graphically displayed to resemble the symbols used in hard-wired control diagrams. Statement List (STL) – list of instructions.

What is the ladder logic in PLC? Ladder logic is a programming language that represents a program by a graphical diagram based on the circuit diagrams of relay logic hardware. It is primarily used to develop software for PLCs used in industrial control applications.

Is ladder logic still used? This means that engineers today still think and work in a similar way to those from a century ago when it comes to designing and implementing control systems. And while ladder logic may not be the most advanced programming language, it is still widely used and is an important tool for industrial automation.

What PLC software does Siemens use? PLC programming with SIMATIC STEP 7 (TIA Portal) - Siemens Global.

What is the most used Siemens PLC? Siemens Simatic PLC: Siemens takes the crown as the most popular PLC, boasting the Simatic series. Known for its reliability

and robust features, Simatic PLCs have become the go-to choice for a myriad of industrial applications.

Why Siemens PLC is the best? Siemens PLCs come equipped with advanced features such as high-speed processing and flexible programming options, making them ideal for a wide range of applications.

What language is PLC ladder? PLC Ladder logic is a programming language used with PLCs. Abbreviated as LD, it is also known as a ladder diagram, and it is one of the most widely-used visual programming languages for PLCs.

How long does it take to learn PLC? How long does it take to complete the PLC Technician Certificate program? The average completion time is approximately 32 weeks of part-time study. The program's flexible computer-based modules are designed to fit into your schedule, not ours, so you can work at your own pace to complete the program.

Is PLC programming easy? However, PLCs are programmed in a way that stems out of relay panel design which isn't intuitive to wrap your mind around for the first time. That being said, PLC programming isn't generally as complex as software engineering - PLCs control a finite set of outputs based on a finite number of inputs.

Is ladder logic easy to learn? Because it is a visual language, it is very easy to understand and debug Ladder Diagram code.

Is PLC going to be replaced? IIoT Or Industry 4.0 won't replace PLC, but it can turn to the way of doing controlling the machines . PLC - Programmable Logic Control can be turned as Intelligent Adoptive Control. Instead of static semi-real time logic will be replaced with machine learning (ML) Or AI.

What is the future of ladder logic? Another potential future use of Ladder Logic is in the development of more energy-efficient industrial control systems. As sustainability and energy efficiency become increasingly important, Ladder Logic can be used in program systems that optimize energy usage and reduce waste.

What code does Siemens use? So, SCL is a structured language utilized to execute control instructions in Siemens PLCs. Other forms of structured text languages may go by different names and be used by other PLC manufacturers.

What PLC is similar to Siemens? UniMAT PLCs are designed to offer the same level of performance and reliability as Siemens products, with the added benefit of being more affordable.

Which PLC is better Allen Bradley or Siemens? Allen-Bradley PLCs are considered more user-friendly and easier to program, whereas Siemens requires more programming knowledge. Allen-Bradley PLCs are also considered easier and faster to debug than Siemens PLCs. Hardware – For installation of hardware, there is a considerable difference between the two.

What is the new version of Siemens PLC? New level of machine performance for basic automation SIMATIC S7-1200 G2 controllers set new standards for simple but high-precision automation applications. They enable the combination of integrated motion control functions with flexible and space-saving machine safety solutions.

What is the most powerful Siemens PLC? The S7-400 is the most powerful PLC in the family of SIMATIC controllers. It enables successful automation solutions with Totally Integrated Automation (TIA).

Which PLC is mostly used in industry? The most commonly used PLC in industry is the Siemens Simatic PLC. It dominates the market due to its reliability, flexibility, and extensive features. Siemens Simatic PLCs are known for their robust performance and are widely used in various applications, from manufacturing to process automation.

What does PLC stand for Siemens? PLCs, which you may know as Programmable Logic Controllers, are industrial digital computers that have been designed for the control and automation of manufacturing processes or robotic devices. Siemens PLC's are used where reliability control, simple programming and fault diagnosis are needed.

What is the most common Siemens PLC? Their Siemens Simatic S7 series PLCs (S7-1500 being the latest lineup) is the most popular programmable controller series.

Which software used in Siemens PLC? PLC Programming with SIMATIC STEP7 With SIMATIC STEP 7 (TIA Portal) users configure, program, test and diagnose the basic, advanced and distributed controllers of each generation, whether it is PLC- or

PC-based, incl. software controllers.

Do PLCs still use ladder logic? As the most basic PLCs were introduced into the field, ladder logic PLC programming was designed to mimic the layout of relay-based circuits. In other words, ladder logic was one of the first PLC programming languages that's still used today due to simplicity.

Why is it called ladder logic? The name is based on the observation that programs in this language resemble ladders, with two vertical rails and a series of horizontal rungs between them.

What is the easiest PLC to program? My experience with many brands of PLCs and delivering PLC training to those from many walks of life has shown that Rockwell ™ and DirectSoft ™ are the easiest to learn.

What is the salary of a PLC Programmer? PLC Programmer salary in India ranges between ? 1.2 Lakhs to ? 6.0 Lakhs with an average annual salary of ? 3.6 Lakhs.

Do PLC programmers make good money? How Much Do Plc Programmer Jobs Pay per Year? $68,000 is the 25th percentile. Salaries below this are outliers. $92,500 is the 75th percentile.

Can I teach myself PLC programming? We offer free resources and training to teach yourself PLC programming. From PLC Basics like ladder logic, function block diagrams, structured text programming, and SCADA systems – we have it all. Our online resources are ideal for those looking to teach themselves PLC programming.

What programming language does Siemens use? SCL Definition So, SCL is a structured language utilized to execute control instructions in Siemens PLCs. Other forms of structured text languages may go by different names and be used by other PLC manufacturers.

What PLC uses RSLogix 5000? In this article, we'll give you an overview on what it takes to get started in RSLogix 5000 or Studio 5000 which is an environment of programming ControlLogix & CompactLogix Allen Bradley PLCs. It's heavily utilized within the North American markets and is highly sought after by employers.

Does DCS use ladder logic? Ladder logic is one of the most widely used programming languages for distributed control systems (DCS), which are essential for managing complex industrial processes.

Are PLCs associated with a programming structure called ladder logic? Ladder logic is used to develop software for programmable logic controllers (PLCs) used in industrial control applications. The name is based on the observation that programs in this language resemble ladders, with two vertical rails and a series of horizontal rungs between them.

What is the STL language in Siemens PLC? The STL language is a text language where you write 1 instruction per line. There are two major types of instructions : Conditional instructions: They are executed (or not) depending on the state of the RLO status bit. Unconditional instructions: They are always executed regardless of the RLO status bit.

Is PLC easy to learn? PLC programming is much easier to grasp than most other modern programming languages. However, the job of a PLC programmer is broader in scope than PLC programming alone.

What CAD software does Siemens use? NX CAD is a mechanical product design solution developed by Siemens that helps companies boost product design efficiency and quality. It enables the most comprehensive digital twin of the product by seamlessly connecting teams, processes, systems and data involved in the product design.

Which PLC is mostly used in industry? The most commonly used PLC in industry is the Siemens Simatic PLC. It dominates the market due to its reliability, flexibility, and extensive features. Siemens Simatic PLCs are known for their robust performance and are widely used in various applications, from manufacturing to process automation.

What is the most commonly used Allen Bradley PLC? The ControlLogix series is the most powerful and versatile PLC family from Allen Bradley. It is designed for large-scale and complex operations that require high-performance and reliability.

What is the difference between RSLogix 500 and RSLogix 5000? RSLogix 500 is really just ladder only and uses register as per memory addressing. RSLogix 5000 is having ladder logistic in addition to STL and so forth and uses tag as per memory addressing. RSLOGIX-500 maybe closer to Siemens, however they are extremely divergent in operator interface and approach.

Which is better, DCS or PLC? In addition, as DCS response times are much higher when compared to PLC, DCS is best utilised for processes with more analog signals and PID loops. PLCs on the other hand are better for processes which require more discrete signals and less analog signals.

Is ladder logic coding? PLC Ladder logic is a programming language used with PLCs. Abbreviated as LD, it is also known as a ladder diagram, and it is one of the most widely-used visual programming languages for PLCs. The ladder logic language is preferred over other programming languages because of its easy readability.

How to learn ladder logic for PLC? To learn ladder logic, you'll need to start with understanding current flow from the left rail to the right one. In summary, the current will attempt to flow through one rung at a time. As it encounters an input condition, it evaluates the result to TRUE or FALSE.

Do PLCs still use ladder logic? As the most basic PLCs were introduced into the field, ladder logic PLC programming was designed to mimic the layout of relay-based circuits. In other words, ladder logic was one of the first PLC programming languages that's still used today due to simplicity.

Who invented ladder logic? Richard E. Morley is credited for being the inventor of ladder logic. Morely invented the first Programmable Logic Controller in 1968.

What is the ST language for PLC? Structured text, abbreviated as ST or STX, is one of the five languages supported by the IEC 61131-3 standard, designed for programmable logic controllers (PLCs). It is a high level language that is block structured and syntactically resembles Pascal, on which it is based.

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