

PERIOD SHIP MODELMAKING AN ILLUSTRATED MASTERCLAS File PDF

Period ship modelmaking an illustrated masterclass

Creating period ship models is a rewarding and intricate craft that combines historical research, craftsmanship, and attention to detail. Whether you're a seasoned model maker or a passionate beginner, mastering the art of period ship modelmaking allows you to bring maritime history to life. This comprehensive masterclass aims to guide you through the essential steps, techniques, and tips to craft authentic, visually stunning ship models representing different historical eras. From choosing the right materials to finishing touches, this guide offers an illustrated, step-by-step approach to elevate your modeling skills.

Understanding the History and Significance of Period Ship Models

The Importance of Historical Accuracy

Creating a period ship model is not just about assembling parts; it requires a deep appreciation of the historical context. Accurate details reflect the ship's purpose, era, and design features, making your model a true miniature representation of maritime history.

Common Types of Period Ships

- Medieval Ships: Galleys, cog ships, and carracks.
- Age of Discovery Ships: Caravels, early galleons.
- Pirate and Privateer Vessels: Frigates, schooners.
- Naval Warships: Ships of the line, frigates from the 17th to 19th centuries.
- Steam and Ironclads: 19th-century technological advancements.

Understanding these ship types helps in selecting your project and gathering accurate reference materials.

Planning Your Ship Model Project

Before diving into construction, proper planning ensures precision and efficiency.

Research and Reference Gathering

- Historical Documents: Blueprints, ship plans, paintings, and photographs.
- Model Kits and Scale Plans: Use authentic plans or modify existing kits.
- Museum Collections: Visit maritime museums or browse online archives.
- Expert Consultations: Connect with historians or experienced modelers.

Choosing the Scale and Materials

- Scale Selection: Common scales include 1:48, 1:72, or 1:96.
- Materials:
 - Wood (balsa, basswood, mahogany)
 - Plastic (for detailed parts)
 - Metal components (brass fittings)
 - Cloth or paper (for sails and flags)

Tools and Supplies Needed

- Hobby knives and scalpels
- Fine files and rasps
- Pin vises and drills
- Clamps and tweezers
- Sandpaper (assorted grits)
- Glue (wood, plastic, or epoxy)
- Paints and brushes
- Rigging cords and thread
- Decals and photo-etched parts

Step-by-Step Guide to Period Ship Modelmaking

1. Creating the Ship's Framework

- Construct the Keel: The backbone of the ship, usually from a sturdy piece of wood.
- Add Bulkheads and Frames: These give the hull its shape; use scaled plans to ensure accuracy.
- Planking the Hull: Attach thin wooden strips along the frames, starting from the keel outward.

Use appropriate fasteners and gluing techniques.

2. Detailing the Hull

- Carving and Sanding: Smooth out the planking, remove excess material.
- Applying Fittings: Install gunports, stern galleries, and decorative elements based on period details.
- Painting and Antiquing: Use appropriate colors and weathering techniques to give an authentic aged look.

3. Constructing the Deck and Superstructure

- Deck Planking: Use fine wood strips, aligned and glued carefully.
- Adding Structures: Cabin, forecastle, and other superstructures should reflect period-specific designs.
- Installing Masts and Spars: Construct from dowels or rods, ensuring correct proportions.

4. Rigging and Sails

- Rigging: Use fine thread or specialized rigging cord to mimic ropes and lines.
- Sails: Fabric or paper sails should be cut to scale and attached with miniature blocks and pulleys.
- Detailing: Add flags, banners, and other period-specific accessories.

5. Final Touches

- Lighting and Weathering: For display models, optional lighting enhances realism.
- Display Base: Mount your model on a wooden or acrylic stand with a descriptive plaque.
- Documentation: Keep detailed notes and photographs throughout the process for future reference or sharing.

Techniques for Authentic Period Ship Models

Historical Accuracy Tips

- Color Matching: Use period-appropriate paint colors, often muted or earthy tones.
- Decorative Elements: Research and replicate period-specific carvings, figureheads, and fittings.
- Rigging Style: Understand the rigging systems used during the ship's era?square-rigged, lateen sails, etc.

Advanced Detailing Methods

- Photo-Etched Parts: Add fine details like railings, gun mounts, and fittings.
- Weathering Techniques: Use washes, dry brushing, and pigment powders to simulate age and wear.
- Decals and Flags: Apply period-appropriate flags and markings for added authenticity.

Common Challenges and How to Overcome Them

- Maintaining Scale Accuracy: Regularly compare your work to reference images.
- Handling Small Parts: Use precision tools and magnification.
- Achieving Smooth Surfaces: Sand carefully and use primer before painting.
- Rigging Complexity: Practice on scrap before rigging the main model; use diagrams and tutorials.

Resources for Period Ship Modelmakers

- Books and Magazines: "The Ship Modeler's Manual," "Maritime History" journals.
- Online Communities: Forums, YouTube tutorials, and social media groups.
- Model Kits and Supplies: Specialty stores and online retailers specializing in maritime modeling.

Conclusion: Crafting Your Masterpiece

Period ship modelmaking is a meticulous but immensely satisfying hobby. With patience, research, and attention to detail, you can produce models that serve as historical artifacts, educational tools, or artistic displays. Remember that each ship tells a story, and your craftsmanship preserves maritime history for generations to come. Whether you focus on a legendary galleon or a sleek frigate, this illustrated masterclass provides the foundation to elevate your modeling skills and achieve authentic, captivating results.

Start your journey today and bring history to life through the art of period ship modelmaking!

Period ship modelmaking an illustrated masterclass offers an in-depth journey into the meticulous art of recreating historical vessels through detailed model construction. Whether you are a seasoned modeller or a beginner eager to delve into maritime history, this comprehensive guide provides invaluable insights, step-by-step instructions, and illustrative visuals to elevate your craft. The masterclass aims to blend historical accuracy with technical skill, making it an essential resource for anyone passionate about ship modeling and maritime history.

Introduction to Period Ship Modelmaking

Ship modelmaking has long been a cherished hobby that combines artistry, engineering, and history. Creating models of period ships—naval vessels from the Age of Sail, cargo ships from the 19th century, or even ancient vessels—requires patience, precision, and a deep appreciation for maritime heritage. This masterclass not only teaches you how to build these models but also immerses you in the stories and contexts behind each vessel.

Key Features of the Masterclass:

- Focus on historical accuracy
- Step-by-step illustrated instructions
- Techniques for different materials (wood, plastic, metal)
- Tips for weathering and aging to enhance realism
- Resources for sourcing authentic parts and references

Understanding the Historical Context

Before beginning any model, understanding the ship's history, design, and purpose is crucial. The masterclass emphasizes research—learning about the vessel's construction, armament, rigging, and role within its historical period.

Research and Reference Gathering

- Consulting ship plans, blueprints, and historical documents
- Using museums, online archives, and maritime books
- Collecting photographs and paintings for visual reference

Benefits:

- Ensures accuracy in scale, details, and decorations
- Provides inspiration for unique features and finishes

Challenges:

- Limited availability of detailed plans for some vessels
- Variations in ship design over time and region

Choosing the Right Model Kit or Starting Point

A core decision in ship modelmaking is whether to purchase a pre-made kit or start from scratch. The masterclass covers:

Kit-Based Modeling

- Advantages:
 - Ready-to-assemble components
 - Suitable for beginners and those short on time
 - Often includes detailed instructions
- Disadvantages:
 - May lack customization options
 - Can be less accurate if not carefully chosen

Scratch Building

- Advantages:
 - Complete control over design and details
 - Excellent for custom or rare vessels
- Disadvantages:
 - Time-consuming and technically demanding
 - Requires advanced skills and tools

The masterclass guides you through evaluating kits and planning a scratch build, emphasizing that beginners might start with a kit before progressing to more complex projects.

Materials and Tools

A comprehensive understanding of materials and tools is fundamental. The course details:

Common Materials:

- Wood (balsa, basswood, mahogany)
- Plastic or styrene sheets
- Metal fittings
- Fabric for sails
- Thread or cord for rigging

Tools Required:

- Cutting tools (hobby knives, saws)
- Files and rasps
- Sandpaper and polishing equipment
- Clamps and gluing implements
- Rulers, calipers, and templates

Features & Tips:

- Using fine-quality tools for precision
- Selecting appropriate adhesives for different materials
- Maintaining a clean workspace to prevent damage

Construction Techniques

The masterclass provides detailed tutorials on constructing various parts of the ship:

Hull Construction

- Framing and planking methods
- Carving and shaping techniques
- Waterproofing and finishing the hull

Deck and Superstructure

- Assembling decks with accurate detailing
- Creating decks with planking or sheet materials
- Building superstructures, cabins, and forecastles

Rigging and Sails

- Understanding ship rigging terminology
- Step-by-step rigging sequences
- Making and aging sails for authenticity

Pro Tips:

- Use magnification for fine rigging
- Employ jigs and templates for consistent assembly
- Practice knot and rigging techniques beforehand

Finishing and Detailing

A model's realism hinges on finely detailed finishing touches. The masterclass emphasizes:

- Painting and staining wood parts for aged or weathered effects
- Applying decals and insignia accurately
- Adding rigging lines, chains, and other fittings
- Weathering techniques to simulate salt, wear, and aging

Features:

- Use of washes and dry brushing for depth
- Techniques for creating realistic water effects and bases
- Incorporating authentic flags and figureheads

Photographing and Displaying Your Model

Once completed, presentation enhances the appreciation of your work. Tips include:

- Proper lighting to highlight details
- Using stands or display cases
- Creating dioramas or maritime scenes

The masterclass suggests ways to document your work for portfolios, competitions, or sharing online.

Pros and Cons of the Masterclass

Pros:

- Comprehensive Coverage: The course covers every aspect from research to finishing.
- Illustrated Instructions: Clear visuals aid understanding.
- Historical Accuracy Focus: Ensures models are authentic and educational.

- Suitable for Various Skill Levels: From beginner to advanced techniques.
- Resource Recommendations: Guides for sourcing authentic materials and references.

Cons:

- Length and Depth May Overwhelm Beginners: The detailed approach requires patience.
- Cost of Materials and Kits: Quality supplies and references can be expensive.
- Time-Intensive Process: Completing a detailed historic ship model can take weeks or months.
- Limited Focus on Modern or Fantasy Ships: Primarily centers on traditional period vessels.

Conclusion: Is This Masterclass Right for You?

If you are passionate about maritime history and dedicated to creating highly detailed, accurate ship models, period ship modelmaking an illustrated masterclass is an invaluable resource. It combines technical skills with historical storytelling, enabling hobbyists to produce works that are both aesthetically impressive and historically meaningful. While it demands time, patience, and investment, the rewards are profound, culminating in a stunning display of craftsmanship that pays homage to our seafaring heritage.

For those new to ship modeling, starting with simpler kits and gradually progressing through the techniques outlined in this masterclass can build confidence and skill. Experienced modellers will appreciate the depth of research and authenticity guidance, elevating their projects to new levels of realism and historical fidelity.

In essence, this masterclass is more than a tutorial; it is a voyage into the art and history of shipbuilding, inviting enthusiasts to explore the majestic vessels that once sailed the oceans. Whether displayed in a home, museum, or competition, your completed model will stand as a testament to your craftsmanship and passion for maritime history.

Question What are the essential tools required for creating a period ship model in the illustrated masterclass? The masterclass recommends tools such as precision knives, files, tweezers, clamps, brushes, and specialized modeling materials like wood and resin to accurately craft period ship models. **How does the masterclass guide beginners in understanding historical ship designs?** It provides detailed illustrations, historical context, and step-by-step instructions to help beginners grasp the architectural features and design elements of period ships. **What materials are best suited for making authentic period ship models as per the masterclass?** The class suggests using high-quality wood, metal fittings, rigging materials, and historically accurate paints to ensure authenticity in the model-making process. **Are there specific techniques taught in the masterclass for detailing and finishing the ship models?** Yes, the masterclass covers techniques such as precise carving, painting weathering effects, rigging, and applying decals to achieve realistic and detailed

finishes. How long does it typically take to complete a period ship model following this masterclass? The duration varies depending on the complexity of the model and the skill level, but most projects take between several days to a few weeks to complete thoroughly. Does the masterclass include tips on sourcing authentic materials and references for period ship models? Yes, it provides guidance on where to find authentic materials, historical references, and scale diagrams to enhance the accuracy of your model. Can this masterclass help advanced modelers improve their skills or focus mainly on beginners? While it is designed to be accessible for beginners, advanced modelers can also benefit from the detailed techniques and historical insights to refine their craftsmanship.

Related keywords: period ship, model making, illustrated masterclass, ship models, maritime modeling, shipbuilding techniques, model ship kits, naval modeling, ship replica crafting, boat model tutorials

the ship of the line a history in ship models

The ship of the line a history in ship models

The ship of the line holds a prominent place in maritime history, representing the pinnacle of naval warfare from the 17th through the early 19th centuries. These formidable vessels, designed for line-of-battle tactics, have captivated sailors, historians, and model enthusiasts alike. Over the centuries, the evolution of ship models depicting the ship of the line has served as a vital tool in preserving naval heritage, understanding ship construction, and celebrating maritime craftsmanship. In this article, we explore the rich history of the ship of the line in ship models, tracing its origins, evolution, and significance within naval and modeling communities.

Origins and Development of the Ship of the Line

The Birth of the Line of Battle Tactics

The concept of the ship of the line emerged in the 17th century as navies transitioned from small, individual ships to large, heavily armed vessels designed to fight in coordinated formations. The line of battle tactics involved ships forming a single-file line, maximizing firepower and creating a formidable naval front. This strategic innovation demanded ships of significant size, power, and durability.

Design Features of the Classic Ship of the Line

The traditional ship of the line was characterized by:

- **Multiple Gun Decks:** Typically three to four decks housing hundreds of cannons.
- **Massive Hulls:** Built for strength and stability, often with a pronounced bow and stern.
- **High Masts and Rigging:** To support extensive sails for maneuverability and speed.
- **Heavy Armament:** Cannons ranged from small to large, arranged to maximize broadside firepower.

Evolution of Ship Models Depicting the Ship of the Line

Early Ship Models: From Wooden Toys to Nautical Representations

The earliest ship models date back centuries and served various purposes, from toys to educational tools. These models were handcrafted, often by sailors or shipbuilders, and reflected the general shape and features of actual ships.

Golden Age of Ship Modeling (18th to 19th Century)

During the Age of Sail, model making became a refined craft, with ship models used for:

- Naval training and education
- Naval promotions and awards
- Private collections and decorative art

Models from this period showcased detailed craftsmanship, capturing the intricate rigging, hull details, and armament configurations.

Types of Ship Models

Ship models can be broadly categorized into:

- **Sailing Ship Models:** Representing ships of the line, frigates, and other sailing vessels.
- **Battle Scenes:** Dioramas depicting naval battles involving ships of the line.
- **Historical Replicas:** Accurate, scale models based on historical plans and measurements.

Materials and Techniques in Ship Model Making

Traditional Materials

Historically, ship models were crafted from:

- **Wood:** The primary material, allowing for detailed hulls and masts.
- **Metal:** For cannons, fittings, and rigging components.
- **String and Thread:** Used for rigging and sails.
- **Paint and Varnish:** For finishing surfaces and highlighting details.

Modern Materials and Techniques

Contemporary model makers incorporate new materials and methods:

- **Plastic and Resin:** For mass-produced kits and detailed parts.
- **Photo-etched Brass:** For intricate fittings and rigging components.
- **3D Printing:** For custom parts and complex structures.

Modelers now benefit from advanced tools like laser cutters, airbrushes, and digital design software, allowing for high precision and fidelity.

The Significance of Ship Models in Naval Heritage

Preservation of Maritime History

Ship models serve as tangible links to the past, capturing the design, technology, and aesthetics of historical vessels. They are invaluable educational tools, helping to visualize how ships looked and operated during their era.

Educational and Museum Exhibits

Many naval museums feature detailed ship models as focal points for visitors. These models:

- Illustrate technological advancements
- Showcase historical battles and voyages
- Engage audiences with interactive displays

Modeling as a Hobby and Cultural Heritage

Building ship models is a popular hobby worldwide, fostering skills in craftsmanship, history, and attention to detail. It also preserves traditional techniques passed down through generations, maintaining maritime cultural heritage.

Major Historical Ships of the Line in Model Form

HMS Victory

One of the most famous ships of the line, HMS Victory served as Lord Nelson's flagship during the Battle of Trafalgar (1805). Model enthusiasts have crafted numerous detailed replicas, highlighting its complex rigging and formidable armament.

French Ships of the Line

French naval ships like the Bucentaure and Redoutable have been popular subjects, especially for their unique design features and roles in historical battles.

Panoramic and Diorama Models

Beyond single vessels, many hobbyists create large-scale dioramas depicting entire fleets or naval battles, providing immersive historical representations.

Modern Trends and the Future of Ship of the Line Models

Digital and Virtual Modeling

With advancements in digital modeling software, enthusiasts can design highly accurate virtual models before building physical replicas. This process allows for precise planning and customization.

Scale and Detail

Smaller scales (1:100, 1:50) enable detailed work, while larger models (1:24, 1:48) are display pieces showcasing craftsmanship and historical accuracy.

Community and Collaboration

Online forums, clubs, and exhibitions foster a global community of ship modelers. Collaborative projects and competitions encourage innovation and the sharing of techniques.

Conclusion

The history of the ship of the line in ship models reflects a rich tapestry of naval innovation, craftsmanship, and cultural preservation. From humble wooden toys to highly detailed museum-quality replicas, these models serve as enduring tributes to maritime history. As technology advances, the hobby continues to evolve, blending traditional techniques with modern tools to ensure that the legacy of these iconic ships endures for future generations. Whether as educational

tools, collectibles, or artistic expressions, ship models of the line remain a vital link to the age of sail and the grandeur of naval engineering.

The Ship of the Line: A History in Ship Models

The ship of the line holds a central place in naval history, representing the pinnacle of sailing warfare from the 17th to the early 19th centuries. As both a formidable weapon of maritime dominance and a symbol of national power, these vessels have fascinated historians, modelers, and enthusiasts alike. Their evolution, design intricacies, and the cultural significance they carry have been meticulously preserved and celebrated through detailed ship models. These models serve as tangible links to a bygone era, offering insights into maritime technology, naval tactics, and craftsmanship.

Origins and Evolution of the Ship of the Line

Early Naval Warfare and the Birth of the Line

- During the Age of Sail, naval combat was initially characterized by individual ships engaging in close combat, often in varied formations.
- As warfare tactics evolved, fleets began to adopt the "line of battle" tactic, where ships formed a single-file line to maximize firepower and coordinate maneuvers.
- This formation necessitated ships designed for durability, firepower, and maneuverability, leading to the development of the ship of the line.

Design Features and Technological Innovations

- Size and Construction: Ships grew larger over time, with hulls reinforced to carry heavier armament.
- Armament: Typically equipped with multiple decks of cannons, ranging from 24-pounders to 32-pounders and beyond.
- Sail and Rigging: Square-rigged sails allowed for better speed and maneuverability in battle.
- Hull Design: Emphasis on stability and seaworthiness, with a pronounced keel and reinforced stern.

Notable Periods in Development

- Late 17th Century: Introduction of the first true ships of the line, like HMS Sovereign of the Seas.
- 18th Century: The "Golden Age" saw the refinement of design, exemplified by ships like HMS

Victory.

- 19th Century: Transition towards steam power and ironclads began, but ships of the line remained relevant in naval tactics until the advent of steam-powered warships.

Historical Significance of the Ship of the Line

Naval Dominance and Empire Building

- Countries like Britain, France, Spain, and the Netherlands relied heavily on ships of the line to expand and protect their empires.
- Naval battles such as Trafalgar (1805) showcased the strategic importance of these vessels.

Cultural and Political Symbols

- Ships of the line often represented national pride and technological prowess.
- Their grandeur and power were reflected in art, literature, and public monuments.

Transition to Modern Naval Warfare

- The decline of the age of sail was marked by the introduction of steam-powered ships and iron hulls.
- Nonetheless, the legacy of the ship of the line persisted as a symbol of maritime heritage.

The Art and Craftsmanship of Ship Models

Historical Development of Ship Models

- Use as Training Tools: Naval officers used models to study ship design and tactics.
- Display and Decoration: Wealthy patrons and shipbuilders created elaborate models for display.
- Instruments of Diplomacy and Propaganda: Models served as diplomatic gifts and promotional artifacts.

Types of Ship Models

- Full-Hull Models: Detailed representations showing the entire ship, including underwater hull.
- Rigged Models: Focused on the rigging and sails, highlighting the complex sail plan.

- Display or Museum Models: Often decorative, with intricate craftsmanship and painted details.

Materials and Techniques

- **Materials Used:**
 - **Wood (mahogany, boxwood, basswood)**
 - **Metal fittings**
 - **Fabric for sails**
 - **Paints and varnishes**
- **Construction Techniques:**
 - **Planking and framing for hulls**
 - **Rigging with thread or fine wire**
 - **Painting and detailing for realism**

Scale and Accuracy

- **Common scales include 1:48, 1:72, and 1:100.**
- **Accuracy depends on available historical plans, paintings, and surviving artifacts.**
 - **Master modelers often relied on original ship plans, detailed descriptions, and archaeological findings to ensure fidelity.**

Notable Ship Models and Collections

Historical Significance of Collections

- Major maritime museums house extensive collections of ship models, such as the National Maritime Museum in Greenwich, UK, and the Mystic Seaport Museum in the USA.
- These collections preserve the craftsmanship and historical details of iconic ships.

Famous Models and Their Stories

- **HMS Victory Model:** The flagship of Admiral Nelson, preserved as a detailed museum piece.
- **French Navy Models:** Representing ships like the Soleil Royal, showcasing French naval architecture.
- **Naval Engagement Models:** Replicating famous battles, such as Trafalgar, for study and display.

Modern Model Building and Preservation

- Advances in materials, tools, and techniques have allowed hobbyists and professionals to produce highly accurate and detailed models.
- Restoration projects help preserve historic ship models and educate the public about naval history.

The Cultural and Educational Impact of Ship Models

Educational Value

- Models serve as educational tools in museums and classrooms, illustrating ship design, naval history, and maritime technology.
- They help students and enthusiasts visualize complex concepts like rigging, hull construction, and battle formations.

Hobbyist and Modeler's Community

- The craft of ship modeling has a dedicated global community.
- Clubs, societies, and online forums facilitate knowledge sharing, competitions, and exhibitions.

Digital and Virtual Modeling

- Modern technology has expanded the scope of ship modeling through 3D printing, virtual reality, and computer-aided design.
- These innovations allow for highly precise reproductions and immersive educational experiences.

Conclusion: The Enduring Legacy of the Ship of the Line in Models

The ship of the line is more than a relic of maritime warfare; it embodies an era of technological innovation, strategic ingenuity, and national identity. Through the meticulous craft of ship modeling, this captivating history is preserved and celebrated, bridging the gap between past and present. Whether as museum pieces, hobbyist projects, or educational tools, these models continue to inspire admiration for the skill, artistry, and historical significance of the ships that once ruled the high seas. Their enduring legacy underscores the importance of maritime heritage and the ongoing

fascination with the grandeur of the age of sail.

QuestionAnswer What is the historical significance of ships of the line in naval warfare? Ships of the line were the dominant naval vessels from the 17th to the early 19th centuries, serving as the backbone of naval fleets and enabling large-scale battles that shaped the course of history, including famous engagements like the Battle of Trafalgar. How have ship models of ships of the line contributed to maritime history education? Ship models provide tangible, detailed representations of historical vessels, helping enthusiasts and students understand ship design, construction techniques, and naval tactics used during the age of ships of the line. What are the key features of a typical ship of the line that are often highlighted in models? Models typically showcase features such as multiple gun decks, intricate rigging, detailed hull structures, and ornamentation like figureheads, reflecting the ship's capacity for heavy artillery and its grandeur. How do modern ship models of ships of the line enhance our appreciation of maritime engineering? Modern models, often built with precision and detailed craftsmanship, reveal complex engineering aspects, helping enthusiasts and historians understand the design evolution and technological advancements of the era. What role do scale models play in preserving the legacy of historic ships of the line? Scale models serve as educational tools and memorials, preserving the appearance and significance of historic ships, especially when the original vessels no longer exist, ensuring their stories continue to be told. What are some popular materials used in creating ship of the line models today? Common materials include wood, plastic, resin, and metal, with high-end models often featuring fine woodwork and detailed rigging to accurately replicate the grandeur of historical ships. How has the hobby of building ship models of ships of the line evolved over recent years? Advancements in manufacturing, availability of detailed kits, and digital resources have made ship modeling more accessible and precise, attracting both hobbyists and professional modelers interested in historical accuracy.

Related keywords: naval history, ship modeling, maritime warfare, historical ships, model building, naval architecture, ship design, maritime history, model ship techniques, historical naval battles

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