

A GLOSSARY OF BUILDING AND CONSTRUCTION TERMINOLOGY Latest Edition

A glossary of building and construction terminology is an essential resource for professionals, students, and enthusiasts involved in the construction industry. Understanding the specialized language used on construction sites, in project planning, and during architectural design is crucial for effective communication, project success, and avoiding costly misunderstandings. This comprehensive guide aims to demystify common terms and phrases, providing clear definitions and explanations to enhance your knowledge of the building and construction domain. Whether you are a seasoned contractor, a property developer, or a newcomer to the field, having a solid grasp of construction terminology can significantly improve your ability to navigate projects efficiently.

Fundamental Building and Construction Terms

1. Architecture and Design Terms

- **Blueprint:** A detailed technical drawing that illustrates the design, dimensions, and layout of a building.
- **Floor Plan:** A scaled diagram of a building's layout from a top-down perspective, showing room arrangements and dimensions.
- **Elevation:** A flat representation of one side of a building, indicating height, exterior finishes, and architectural details.
- **Section:** A cut-through view of a building showing internal components and structural elements.
- **Facade:** The exterior face or surface of a building, often the front.

2. Construction Materials

- **Concrete:** A composite material made of cement, water, aggregates (sand, gravel), and additives, used extensively in structural components.
- **Reinforced Concrete:** Concrete embedded with steel reinforcement bars (rebars) to improve tensile strength.
- **Wood Framing:** Structural framework made from timber, commonly used in residential construction.
- **Steel:** A strong, durable metal used for framing, support beams, and reinforcements.
- **Insulation:** Materials used to reduce heat transfer, improving energy efficiency.

3. Structural Elements

- Beam: A horizontal support that carries loads across openings or spans.
- Column: A vertical structural element that transfers loads from the roof or floors to the foundation.
- Foundation: The base that transfers the load of the building to the ground, providing stability.
- Slab: A flat, horizontal structural element, such as a floor or roof surface.
- Brace: A diagonal support used to stabilize structures against lateral forces.

Construction Process and Phases

1. Planning and Design

- Feasibility Study: An assessment to determine the practicality of a proposed project.
- Construction Drawings: Detailed plans used by builders to execute the project.
- Permits and Approvals: Official authorizations required before construction begins.

2. Site Preparation

- Clearing: Removing vegetation, debris, and existing structures from the site.
- Excavation: Digging or earth-moving to prepare for foundations.
- Grading: Leveling or sloping the ground to ensure proper drainage and foundation stability.

3. Foundation and Structural Work

- Footings: The widened part of the foundation that distributes the building load.
- Piling: Deep foundations using steel or concrete piles driven into the ground for stability.
- Erection: The process of assembling and installing structural components.

4. Building Enclosure and Exterior

- Sheathing: Outer layer of wall or roof assembly providing structural support and a base for exterior finishes.
- Cladding: Material applied to the exterior surface for aesthetic and protective purposes (e.g., brick, siding).
- Roofing: The upper covering of a building, protecting it from weather elements.

5. Interior Finishes and Systems

- Drywall: Gypsum board used to create interior walls and ceilings.
- HVAC: Heating, Ventilation, and Air Conditioning systems for climate control.
- Electrical Wiring: The network of cables and fixtures providing power and lighting.

Key Construction Roles and Personnel

1. Architect

Designs the building, creates plans, and oversees aesthetic and functional aspects.

2. Civil Engineer

Ensures structural integrity, designing foundations, and infrastructure elements.

3. Contractor

Manages the overall construction process, coordinating labor, materials, and schedules.

4. Subcontractor

Specialized workers or companies hired for specific tasks such as electrical, plumbing, or roofing.

5. Project Manager

Oversees project timelines, budgets, and resource allocation to ensure successful completion.

Common Construction Methods and Techniques

1. Conventional Construction

A traditional approach involving site-built structures using standard materials and methods.

2. Modular Construction

Prefabrication of building sections off-site, then transporting and assembling them on-site.

3. Sustainable Building Practices

Incorporation of eco-friendly materials, energy-efficient systems, and environmentally conscious design.

4. Lean Construction

Methodology aimed at minimizing waste and maximizing value throughout the construction process.

Important Construction Safety Terms

- Personal Protective Equipment (PPE): Gear such as helmets, gloves, and safety glasses used to protect workers.
- Fall Protection: Systems like guardrails and harnesses to prevent falls from heights.
- OSHA: Occupational Safety and Health Administration, the agency regulating safety standards.
- Hazard: Any condition that could cause injury or damage.
- Lockout/Tagout: Procedures to ensure machinery is safely shut down during maintenance.

Conclusion

Having a comprehensive understanding of building and construction terminology is vital for effective communication and project management within the industry. This glossary provides foundational knowledge, from architectural concepts and materials to construction processes and safety protocols. Whether you are reading technical drawings, communicating with team members, or managing projects, familiarity with these terms will enhance your professionalism and efficiency. Continual learning and familiarization with industry-specific language are key to thriving in the dynamic world of construction.

Keywords for SEO Optimization:

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A Comprehensive Glossary of Building and Construction Terminology: An In-Depth Guide

Building and construction projects are inherently complex, involving a vast array of specialized terms that can be daunting for newcomers and even seasoned professionals. Understanding the language used in this industry is essential for effective communication, accurate planning, and successful project execution. This comprehensive glossary aims to demystify the most important terminology used in the building and construction sector, providing clarity and insight into each term's application and significance.

Fundamental Construction Terms

1. Foundation

The base structure that transfers the load of a building to the underlying soil or rock. Foundations are critical for stability and longevity, and their design varies based on soil conditions, building weight, and environmental factors. Common types include shallow foundations (e.g., strip footings, pad foundations) and deep foundations (e.g., piles, drilled shafts).

2. Framing

The skeletal structure that provides support and shape to a building. It forms the framework for walls, floors, and roofs. Materials used in framing include timber, steel, or concrete, depending on the building type and design specifications.

3. Load-Bearing Walls

Walls that carry the weight of the structure above them, transmitting loads to the foundation. Differentiating load-bearing from non-load-bearing walls is essential during renovations and interior planning.

4. Beams and Columns

- Beams: Horizontal structural elements that support loads from floors, roofs, or ceilings, transferring them to columns or walls.
- Columns: Vertical supports that transfer loads from beams and slabs down to the foundation.

5. Slab

A flat, horizontal concrete element used for floors, ceilings, or roofs. Slabs can be cast-in-place or precast and may be reinforced with steel to handle bending stresses.

Building Materials and Components

1. Concrete

A composite material made of cement, water, aggregates (sand, gravel), and sometimes admixtures. Known for its strength, durability, and versatility, concrete is a primary material in foundations, slabs, walls, and structural elements.

2. Masonry

Construction using individual units such as bricks, stones, or concrete blocks, bonded together with mortar. Masonry provides structural support, insulation, and aesthetic appeal.

3. Steel Reinforcement (Rebar)

Steel bars or mesh embedded within concrete to improve tensile strength, as concrete alone is weak in tension. Proper placement and spacing of rebar are critical for structural integrity.

4. Insulation

Materials used to reduce heat transfer between the interior and exterior of a building, improving energy efficiency. Types include fiberglass batts, spray foam, rigid foam boards, and mineral wool.

5. Cladding and Facades

Exterior covering materials that protect the building envelope and contribute to aesthetics. Common cladding materials include brick veneer, metal panels, stucco, and glass curtain walls.

Construction Processes and Techniques

1. Site Preparation

The initial phase involving clearing, grading, and excavating the site to create a suitable foundation for construction.

2. Excavation and Earthworks

Removing soil or rock to prepare for foundations, basements, or utilities. Heavy machinery like excavators and bulldozers are typically used.

3. Formwork

Temporary molds into which concrete is poured to shape structural elements like beams, walls, and slabs. Proper formwork ensures dimensional accuracy and surface finish.

4. Pouring and Curing

The process of placing concrete into formwork and allowing it to hydrate and gain strength over time. Curing involves maintaining moisture and temperature conditions to prevent cracks and ensure

durability.

5. Erecting Structural Framework

Assembling steel or timber components to create the building's skeleton. This phase often involves cranes, bolting, welding, or nailing.

Building Systems and Installations

1. Mechanical, Electrical, and Plumbing (MEP)

The core systems that enable building functionality:

- Mechanical: Heating, ventilation, and air conditioning (HVAC).
- Electrical: Wiring, lighting, power outlets, and communication systems.
- Plumbing: Water supply, drainage, and waste removal.

2. Roofing Systems

The upper covering of a building designed to protect against weather elements. Types include flat roofs, pitched roofs, green roofs, and membrane roofing systems.

3. Waterproofing

Application of materials to prevent water ingress in foundations, roofs, and walls. Common methods include membrane applications, sealants, and coatings.

4. Fire Protection Systems

Includes sprinklers, fire alarms, fire-resistant materials, and escape routes designed to prevent and control fires.

Construction Safety and Codes

1. Building Codes and Regulations

Legal standards that specify minimum requirements for structural safety, fire safety, accessibility, energy efficiency, and environmental impact. Compliance is mandatory and ensures safety and consistency.

2. Safety Equipment and Protocols

Personal protective equipment (PPE), safety harnesses, scaffolding, and signage are vital for worker safety. Site safety protocols include hazard assessments, training, and emergency procedures.

3. Quality Control and Assurance

Processes to ensure materials, workmanship, and systems meet specified standards. Includes inspections, testing, and documentation.

Specialized Construction Terms and Concepts

1. Sustainable and Green Building

Design and construction practices aimed at reducing environmental impact. Key concepts include LEED certification, energy-efficient design, renewable energy integration, and the use of eco-friendly materials.

2. Modular and Prefabricated Construction

Building components manufactured off-site and assembled on-site, reducing construction time and waste. Modules can include entire rooms or structural elements.

3. Building Information Modeling (BIM)

A digital representation of a building's physical and functional characteristics used for planning, design, construction, and management, enhancing collaboration and reducing errors.

4. Retrofitting and Renovation

Modifying existing structures to improve performance, update aesthetics, or meet new standards. Retrofitting can include seismic upgrades, energy efficiency improvements, or interior remodeling.

Common Construction Documentation and Contracts

1. Blueprints and Drawings

Detailed graphical representations of the building design, including plans, elevations, sections, and details.

2. Specifications

Written descriptions of materials, standards, and workmanship requirements.

3. Construction Contracts

Legal agreements outlining scope, cost, timeline, and responsibilities. Types include lump sum, cost-plus, and design-build contracts.

4. Change Orders

Formal amendments to the original contract, reflecting scope or price adjustments during construction.

Conclusion: The Importance of Terminology in Building and Construction

Mastering the terminology associated with building and construction is more than an academic exercise; it is vital for ensuring clarity, safety, efficiency, and quality in every project. Whether you are an architect, engineer, contractor, or owner, familiarity with these terms facilitates better decision-making, accurate documentation, and effective communication across all project phases.

The industry continues to evolve with innovations such as sustainable materials, digital modeling, and new construction techniques. Staying current with terminology reflects an understanding of these advancements and enhances your ability to adapt and excel in the dynamic landscape of building and construction.

By comprehensively understanding and correctly using this glossary, professionals and enthusiasts alike can contribute to more successful projects, safer environments, and a more sustainable built environment for future generations.

Question What is the difference between 'bearing wall' and 'partition wall' in construction? A 'bearing wall' is a structural wall that supports the weight of the elements above it, such as floors or roofs, contributing to the building's stability. A 'partition wall' is a non-load-bearing wall used primarily to divide spaces within a building and does not carry structural loads. **What does 'R-value' refer to in building insulation?** 'R-value' measures the thermal resistance of insulation materials, indicating their ability to resist heat flow. The higher the R-value, the better the material's insulating performance. **Can you explain what 'concrete slump' indicates in construction?** 'Concrete slump' is a test measurement that indicates the workability or consistency of fresh concrete. It measures the vertical drop of a concrete cone after removal of the mold, with higher slump values indicating more fluid concrete. **What is a 'buildability' assessment in construction projects?** 'Buildability' refers to the ease and practicality of constructing a building design, considering factors like complexity, materials, and construction methods. It aims to optimize design for efficiency, safety, and cost-effectiveness.

What does 'LEED certification' signify in building construction? 'LEED certification' (Leadership in Energy and Environmental Design) is a globally recognized symbol of sustainability achievement, indicating that a building meets certain environmental performance and energy efficiency standards.

Related keywords: architecture, engineering, construction, building materials, blueprints, structural design, site planning, project management, HVAC, masonry

BUILDING CONSTRUCTION UNIVERSITY OF DELAWARE

Building Construction University of Delaware is a prominent program that prepares students for diverse careers in the construction and building industry. Known for its rigorous curriculum, experienced faculty, and state-of-the-art facilities, this program offers a comprehensive education designed to meet the evolving demands of the construction sector. Whether you're interested in project management, sustainable building practices, or structural engineering, the Building Construction program at the University of Delaware provides a solid foundation for professional success. This article explores the key aspects of the program, including academic offerings, faculty expertise, facilities, career opportunities, and why it stands out as a top choice for aspiring construction professionals.

Overview of Building Construction Program at the University of Delaware

The Building Construction program at the University of Delaware is part of the College of Engineering and the College of Arts and Sciences, offering undergraduate and graduate degrees tailored to meet industry needs. The program emphasizes hands-on learning, technical proficiency, and leadership skills to prepare students for real-world challenges.

Academic Degrees Offered

- Bachelor of Science in Building Construction Management
- Master of Science in Building Construction and Facility Management
- Certificate programs in specialized areas such as sustainable construction and project management

Program Goals and Objectives

- Develop technical knowledge in construction methods, materials, and systems
- Foster leadership and management skills for construction projects
- Promote sustainable and environmentally responsible building practices
- Prepare students for certification exams such as OSHA, LEED, and PMP
- Engage students in industry internships and cooperative education (co-op) opportunities

Curriculum and Course Highlights

The curriculum is designed to combine theoretical knowledge with practical application. Courses are structured to build foundational skills before progressing to advanced topics.

Core Courses

- Construction Materials and Methods
- Structural Analysis and Design
- Construction Project Management
- Estimating and Cost Control
- Construction Safety and Risk Management
- Sustainable Building Practices

Electives and Specializations

Students can select electives based on their career interests, including:

- Building Information Modeling (BIM)
- Green Building Technologies
- Construction Law and Contracts
- Quality Assurance and Control
- Advanced Project Scheduling

Capstone and Practical Experience

- Final year capstone projects involve real-world construction challenges
- Industry internships and co-op programs provide hands-on experience
- Collaboration with local construction firms for site visits and project simulations

Faculty and Industry Experts

The success of the Building Construction program is largely attributed to its faculty, who bring a wealth of industry experience and academic expertise.

Faculty Expertise

- Professors with backgrounds in civil engineering, architecture, and construction management
- Industry practitioners who regularly consult and collaborate with students
- Researchers focusing on sustainable construction practices, innovative building materials, and construction safety

Industry Partnerships

- Collaboration with leading construction firms and industry organizations
- Opportunities for mentorship, internships, and job placements
- Participation in industry conferences and seminars hosted by the university

State-of-the-Art Facilities and Resources

The University of Delaware invests heavily in providing students with modern facilities that mirror real-world construction environments.

Construction Labs and Workshops

- Fully equipped labs for materials testing and structural analysis
- Model construction sites for hands-on learning
- Workshops for developing skills in carpentry, framing, and finishing

Building Information Modeling (BIM) Labs

- Advanced software tools for digital modeling and project simulation
- Training in 3D modeling, clash detection, and construction sequencing

Library and Research Resources

- Access to extensive technical journals, industry reports, and standards
- Dedicated research centers focusing on sustainable construction and engineering innovations

Career Opportunities and Industry Connections

Graduates of the Building Construction program at the University of Delaware are well-positioned for successful careers across the construction industry.

Potential Career Paths

- Construction Project Manager
- Estimator and Cost Analyst
- Construction Safety Officer
- Building Inspector
- Sustainability Consultant
- Facilities Manager
- Construction Engineer

Job Placement and Support Services

- Career counseling and resume workshops
- On-campus recruiting events and job fairs
- Alumni network for mentorship and industry connections
- Internship and co-op placement assistance

Accreditation and Industry Recognition

The program is accredited by reputable organizations, ensuring academic quality and industry relevance.

Accrediting Bodies

- ABET (Accreditation Board for Engineering and Technology)
- The Construction Management Association of America (CMAA)
- LEED Certification Providers for sustainable building curricula

Industry Recognition

- High employment rates among graduates
- Recognition from industry leaders for curriculum excellence

- Continuous curriculum updates aligned with industry standards

Why Choose Building Construction at the University of Delaware?

Selecting the right program is crucial for future success. Here are some reasons why the University of Delaware's Building Construction program stands out:

- **Strong Industry Connections:** Partnerships with leading firms ensure internships, mentorships, and job placements.
- **Hands-On Learning:** Practical experience through labs, workshops, and real-world projects.
- **Research Opportunities:** Engage in innovative research on sustainable construction and new materials.
- **Location Advantage:** Situated in a region with a vibrant construction industry, providing ample project opportunities.
- **Alumni Network:** Access to a network of successful professionals across the construction sector.

Conclusion

The Building Construction University of Delaware program offers a comprehensive pathway for students aspiring to excel in the construction industry. Combining rigorous academics, practical experience, industry partnerships, and cutting-edge facilities, it prepares graduates to meet the challenges of modern construction projects. Whether you aim to become a project manager, estimator, or sustainability expert, this program provides the tools, knowledge, and connections necessary for a successful career. For those seeking a top-tier education in building construction, the University of Delaware stands out as a premier choice to turn your ambitions into reality.

Keywords: Building Construction University of Delaware, construction management program, construction degrees Delaware, sustainable building practices, construction industry careers, University of Delaware construction facilities, ABET accredited construction program, career in construction Delaware, Building Construction faculty Delaware, construction internships University of Delaware

Building Construction at the University of Delaware: Pioneering Education and Innovation in the Field

Building construction is a vital discipline that bridges the gap between engineering, architecture, and project management. It shapes the physical environment we live in, ensuring safety, sustainability, and efficiency in the built environment. The University of Delaware (UD) has established itself as a prominent institution in this domain, offering comprehensive programs, cutting-edge research, and

industry collaborations that prepare students to excel in the ever-evolving construction industry. **Building construction university of delaware** stands out as a hub for academic excellence, practical training, and innovative research, making it a top choice for aspiring construction professionals.

In this article, we delve into the various facets of building construction at the University of Delaware, exploring academic programs, research initiatives, industry partnerships, facilities, and career prospects. Whether you're a prospective student, industry stakeholder, or simply interested in the future of construction education, this detailed overview provides valuable insights into how UD is shaping the next generation of construction experts.

Overview of Building Construction at the University of Delaware

The University of Delaware's approach to building construction emphasizes a multidisciplinary curriculum designed to equip students with technical skills, managerial capabilities, and a strong foundation in sustainable practices. The program integrates classroom learning with real-world applications through labs, internships, and collaborative projects.

The Department of Civil and Environmental Engineering at UD oversees the construction program, emphasizing hands-on learning and research that addresses current industry challenges. The university's commitment to innovation is reflected in its investment in state-of-the-art facilities and active industry collaborations.

Academic Programs and Curriculum

Bachelor's Degree in Construction Engineering and Management

The undergraduate program aims to produce graduates capable of managing complex construction projects from inception to completion. Key components include:

- Core Courses: Structural analysis, construction materials, project management, construction safety, and estimating.
- Electives: Sustainable construction, Building Information Modeling (BIM), and advanced project planning.
- Practical Experience: Opportunities for internships, co-op programs, and industry site visits.

Students are encouraged to develop skills in leadership, communication, and problem-solving, vital for managing diverse teams and projects.

Master's and Ph.D. Programs

Advanced degrees focus on research and specialization in areas such as construction automation, digital construction technologies, and resilient infrastructure. These programs foster innovation and prepare students for leadership roles or academia.

- Master's in Civil Engineering (Construction Emphasis): Combines coursework with thesis research.
- Doctoral Studies: Focused on cutting-edge research, often in collaboration with industry partners.

State-of-the-Art Facilities and Labs

The University of Delaware invests heavily in facilities that support hands-on learning and research:

- Construction Laboratory: Equipped with tools and equipment for testing construction materials and techniques.
- BIM and Digital Modeling Labs: Facilities dedicated to Building Information Modeling, virtual construction simulations, and digital twin technology.
- Robotics and Automation Labs: Supporting research in construction automation and innovative construction methods.
- Sustainable Construction Facilities: Focused on green building practices, renewable materials, and energy-efficient construction.

These facilities enable students to gain practical experience and conduct pioneering research that addresses industry needs.

Research Initiatives and Industry Collaboration

UD's building construction program is distinguished by its robust research portfolio, addressing critical issues such as:

- Sustainable Building Practices: Developing eco-friendly materials, energy-efficient systems, and waste reduction techniques.
- Construction Safety: Innovating safety protocols and hazard mitigation strategies.
- Digital Construction Technologies: Advancing BIM, augmented reality, and automation in construction workflows.
- Resilient Infrastructure: Designing structures capable of withstanding extreme weather events and climate change impacts.

The university maintains active partnerships with industry leaders like Skanska, Turnpike Construction, and local government agencies. These collaborations facilitate internships, sponsored research, and real-world problem-solving opportunities for students.

Industry Engagement and Career Development

Preparing students for the workforce is a cornerstone of UD's building construction program. The university offers:

- Internship and Co-op Programs: Ties with construction firms provide students with hands-on experience.
- Career Fairs and Networking Events: Connecting students with industry recruiters and alumni.
- Professional Development Workshops: Covering topics like project management software, safety standards, and leadership skills.
- Certification Support: Assistance with obtaining certifications such as OSHA, LEED, and PMP.

Graduates from UD's construction programs are highly sought after, finding employment in general contracting, project management, design-build firms, and government agencies. The program's emphasis on sustainability and digital technology positions students as forward-thinking professionals equipped to lead in modern construction environments.

Sustainability and Green Building Focus

In line with global trends toward sustainable development, the University of Delaware's building construction curriculum integrates environmental considerations into all facets of education. Initiatives include:

- Green Building Certifications: Courses prepare students for LEED accreditation.
- Research in Renewable Materials: Exploring alternatives to traditional construction materials.
- Energy-efficient Design: Incorporating passive heating, cooling, and renewable energy sources.
- Environmental Impact Assessments: Teaching students to evaluate and minimize construction footprints.

This focus ensures graduates are not only skilled builders but also stewards of sustainable development.

Future Directions and Innovations

Looking ahead, the university aims to incorporate emerging technologies and methodologies into its

programs:

- Digital Twins: Creating virtual replicas of construction projects for planning and maintenance.
- Autonomous Construction Equipment: Research into robot-assisted building processes.
- Smart Cities Integration: Preparing students to work within interconnected urban environments.
- Resilience and Climate Adaptation: Designing infrastructure to withstand future environmental challenges.

By maintaining a forward-looking curriculum and research agenda, the University of Delaware continues to be a leader in building construction education.

Conclusion

Building construction at the University of Delaware exemplifies a comprehensive, innovative approach to preparing students for the complexities of modern infrastructure development. Through a blend of rigorous academics, cutting-edge research, industry partnerships, and a focus on sustainability, UD equips its graduates with the skills needed to shape the future of construction. As the industry evolves with new technologies and environmental demands, the university remains committed to fostering a new generation of construction professionals capable of leading through innovation and responsibility.

Whether you're considering a career in construction or seeking a partner for research and development, the University of Delaware's building construction program stands out as a beacon of excellence and innovation in the field.

Question What programs does the University of Delaware offer in building construction? The University of Delaware offers undergraduate and graduate programs in Construction Management and Civil Engineering, focusing on building construction, project management, and sustainable building practices. **Does the University of Delaware have a dedicated building construction research center?** Yes, the University of Delaware hosts the Center for Building Innovation, which conducts research on sustainable construction methods, new building materials, and construction technology. **Are there internship opportunities for students in building construction at the University of Delaware?** Absolutely. The university collaborates with industry partners to provide students with internships and co-op programs in construction firms, helping them gain real-world experience. **What facilities are available for building construction students at the University of Delaware?** Students have access to state-of-the-art labs, simulation centers, and fabrication workshops, including the Construction Management Lab equipped with the latest construction software and tools. **Is the building construction program at the University of Delaware accredited?** Yes, the Construction Management program is accredited by ABET, ensuring high standards of quality and industry relevance. **What career paths are available for graduates of the**

building construction program at the University of Delaware? Graduates can pursue careers in construction management, project engineering, estimating, site supervision, and sustainable building design in both private and public sectors.

Related keywords: building construction, University of Delaware, civil engineering, construction management, architecture program, Delaware engineering schools, construction technology, university construction courses, building sciences, Delaware architecture programs

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