

MASS COMMUNICATION COURSE OUTLINE FOR NOUN PROGRAMME Reference

Mass communication course outline for Noun programme

Embarking on a career in mass communication requires a solid understanding of the foundational principles, theories, and practical skills that facilitate effective information dissemination. The mass communication course outline for Noun programme is meticulously designed to equip students with comprehensive knowledge of media operations, communication theories, and the role of mass media in society. This course outline serves as a blueprint for aspiring media professionals, providing a structured pathway through various core modules, electives, and practical sessions aimed at fostering critical thinking, creativity, and technical proficiency.

Overview of the Mass Communication Course for Noun Programme

The mass communication course for the Noun programme is structured to cover both theoretical and practical aspects of media studies. It aims to develop students' understanding of communication processes, media history, ethical considerations, and emerging trends in mass media. The curriculum combines classroom instruction, hands-on training, and real-world projects to prepare students for diverse roles in the media industry.

Core Modules in the Mass Communication Course Outline

The core modules form the backbone of the Noun mass communication programme, providing essential knowledge and skills. These modules are designed to deliver a balanced mix of theory, application, and critical analysis.

1. Introduction to Mass Communication

- Definition and scope of mass communication
- Historical development of mass media
- Functions and types of mass media
- The role of mass communication in society

2. Media and Society

- Impact of media on culture and social change
- Media effects theories
- Media and public opinion
- Media literacy and critical viewing

3. Communication Theories

- Models of communication (Shannon and Weaver, Lasswell)
- Mass communication theories (Agenda-setting, Cultivation)
- Uses and Gratifications theory
- Diffusion of Innovations

4. Media Ethics and Law

- Media ethics principles
- Legal frameworks governing media
- Freedom of speech and censorship
- Case studies on media ethics

5. Print Media Production

- Newspaper editing and production
- Journalistic writing and reporting
- Layout and design of print media
- Introduction to publishing tools

6. Broadcast Media and Radio

- History and development of radio and TV
- Broadcast scripting and presentation
- Studio operations and production techniques
- Radio and TV station management

7. Digital Media and New Technologies

- Introduction to digital journalism

- Social media management
- Multimedia content creation
- Emerging trends in online communication

8. Advertising and Public Relations

- Principles of advertising
- Public relations strategies and campaigns
- Media planning and buying
- Brand management

9. Research Methods in Mass Communication

- Qualitative and quantitative research techniques
- Survey design and data analysis
- Content analysis and audience research
- Research ethics and reporting

10. Media Production and Practice

- Photojournalism and videography
- Audio production and editing
- Scriptwriting and storytelling
- Internship and project work

Elective and Specialized Modules

To cater to diverse interests and industry demands, the Noun mass communication programme offers elective modules that allow students to specialize in particular areas.

1. Cinematography and Film Production

- Basics of filmmaking
- Camera operation and lighting
- Editing and post-production
- Film analysis and critique

2. Media Entrepreneurship

- Starting a media business
- Media marketing strategies
- Funding and revenue models
- Legal considerations for media startups

3. International and Development Communication

- Global media systems
- Communication for development
- Cross-cultural communication
- Case studies in international media

4. Investigative Journalism

- Research techniques for investigative reporting
- Ethical dilemmas and safety
- Story development and sourcing
- Publishing investigative reports

Practical Training and Internship Opportunities

A vital component of the mass communication course outline for Noun programme is practical training. This hands-on experience bridges the gap between theory and industry application.

1. Media Lab Sessions

- Studio production exercises
- Content creation workshops
- Editing and post-production tutorials

2. Internships

- Placement in radio, TV stations, newspapers, or digital media companies
- Real-world project involvement

- Networking with industry professionals
- Portfolio development

3. Media Projects and Capstone

- Group assignments and individual projects
- Development of media campaigns
- Final project presentation

Assessment and Evaluation Methods

Assessment strategies in the Noun mass communication programme are designed to evaluate both theoretical understanding and practical skills.

1. Examinations

- Mid-term and final exams
- Objective and essay questions

2. Coursework

- Research papers and essays
- Project reports
- Group presentations

3. Practical Assessments

- Studio and fieldwork evaluations
- Portfolio submissions
- Internship reports

4. Continuous Assessment

- Participation in class discussions
- Attendance and punctuality
- Peer reviews

Conclusion

The mass communication course outline for Noun programme offers a comprehensive and balanced curriculum tailored to prepare students for the dynamic media landscape. Covering fundamental theories, technical skills, ethical considerations, and industry-specific knowledge, the programme ensures graduates are well-equipped for careers in journalism, broadcasting, advertising, public relations, digital media, and more. With a mix of classroom instruction, practical training, internships, and research, students gain the confidence and competence to excel in various media roles and contribute meaningfully to societal development through effective communication.

If you're considering a future in mass communication, understanding this course outline can help you navigate your academic journey and make informed decisions about your specialization and career path.

Mass Communication Course Outline for Noun Programme: An In-Depth Review

In the realm of higher education, especially within Nigerian tertiary institutions, the National Open University of Nigeria (NOUN) has established itself as a pivotal institution offering flexible, accessible, and comprehensive programs. Among these programs, the Mass Communication course stands out as a vital discipline designed to equip students with the skills, knowledge, and ethical grounding necessary to thrive in the dynamic media landscape. This article provides a detailed exploration of the Mass Communication Course Outline for the Noun Programme, analyzing its structure, core components, and educational philosophy to serve as a valuable resource for prospective students, educators, and media industry stakeholders.

Overview of the Noun Mass Communication Program

The Noun Mass Communication program aims to produce graduates who are proficient in various forms of media, possess critical thinking abilities, and demonstrate a strong understanding of societal issues through the lens of communication. The course outline is meticulously structured to balance theoretical foundations with practical applications, ensuring students are well-prepared for careers in journalism, broadcasting, public relations, advertising, and new media.

Program Objectives

- To develop students' understanding of mass media and communication theories.
- To equip students with practical skills in writing, editing, broadcasting, and digital media production.
- To foster ethical standards and professional integrity in media practice.
- To cultivate critical thinking about societal issues and the role of media in national development.

Duration and Structure

The Noun's Mass Communication program typically spans a minimum of four semesters (two academic years), with each semester comprising a series of courses that blend core, elective, and practical components. The curriculum is designed to be flexible, accommodating mature students and working professionals.

Core Curriculum Components

The core curriculum forms the backbone of the program, emphasizing foundational knowledge and essential skills necessary for effective communication practice.

- Introduction to Mass Communication
 - Definition and scope of mass communication
 - History and evolution of media
 - Functions of mass media in society
 - Types of media: print, broadcast, digital
- Media Theories and Models
 - Hypodermic needle theory
 - Two-step flow theory
 - Uses and gratifications theory
 - Agenda-setting theory
 - Media effects and audience analysis
- Journalism Principles and Practice
 - News writing and reporting
 - News editing and production
 - Investigative journalism
 - Ethical considerations in journalism

- Media Law and Ethics

- Freedom of the press
- Defamation, libel, and privacy laws
- Ethical dilemmas in media practice
- Regulatory bodies and self-regulation

- Communication Skills

- Verbal and non-verbal communication
- Interviewing techniques
- Public speaking and presentation skills
- Writing for different media platforms

- Media Management and Organization

- Media planning and management
- Advertising and public relations fundamentals
- Media economics
- Content management systems

- Introduction to Broadcast Media

- Radio and television production
- Scriptwriting for broadcast
- Studio and field production techniques

- Digital Media and New Technologies

- Principles of digital communication
- Social media platforms and strategies
- Multimedia content creation

- Emerging trends in digital journalism

Elective and Specialized Courses

Beyond the core courses, students are encouraged to select electives that align with their interests and career aspirations.

Sample Electives Include:

- Public Relations and Corporate Communication
- Advertising Strategies and Campaigns
- Development Communication
- International and Intercultural Communication
- Media and Gender
- Environmental Communication
- Film and Video Production

Practical Components and Fieldwork

Practical skills are emphasized through hands-on training, workshops, and fieldwork, which are integral to the Noun Mass Communication curriculum.

Practical Modules

- Media production labs
- Journalism internship programs
- Studio exercises and on-air practice
- Digital content development workshops

Fieldwork

Students undertake field assignments in real media organizations, gaining insight into industry operations and building professional networks.

Assessment and Evaluation Methods

Assessment strategies are designed to evaluate both theoretical understanding and practical skills.

- Continuous assessment through assignments, quizzes, and presentations
- Projects and case studies
- Practical examinations in media production
- End-of-semester examinations (theoretical papers)
- Internships and field reports

Alignment with Industry Standards and Future Trends

The course outline reflects a commitment to aligning academic content with current industry standards and technological advancements.

Emphasis on Digital Transformation

- Integration of digital journalism techniques
- Social media management
- Content strategy in the digital age

Ethical and Responsible Communication

- Promoting media literacy and critical consumption
- Addressing misinformation and fake news
- Advocacy for ethical journalism and responsible reporting

Preparing for Emerging Media Platforms

- Podcasting
- Mobile journalism
- Data journalism

Challenges and Opportunities in the Curriculum

While the NOUN Mass Communication course provides a comprehensive foundation, it faces certain challenges and opportunities for enhancement.

Challenges:

- Keeping pace with rapid technological changes

- Ensuring practical exposure in a remote learning environment
- Balancing theoretical knowledge with industry relevance

Opportunities:

- Incorporating more multimedia and interactive content
- Strengthening industry partnerships for internships
- Expanding focus on new media and digital literacy

Conclusion

The Mass Communication Course Outline for the Noun Programme exemplifies a thoughtfully designed curriculum aimed at nurturing competent, ethical, and innovative media practitioners. Its integration of theoretical frameworks, practical skills, and technological competencies ensures students are well-positioned to meet the demands of a rapidly evolving media landscape. As Nigeria and the global community increasingly rely on diverse communication channels, graduates from this program will play pivotal roles in shaping informed societies and fostering development through responsible media practice.

For prospective students, educators, and industry stakeholders, understanding this course outline offers valuable insights into the educational standards and future readiness of Noun's mass communication graduates. Continuous curriculum review and adaptation will be essential to maintain relevance and excellence in media education, ensuring that the program remains at the forefront of communication studies.

In summary, the NOUN Mass Communication program provides a robust, multi-dimensional curriculum that balances foundational knowledge with practical skills and technological proficiency. Its comprehensive course outline supports the development of well-rounded media professionals capable of navigating and influencing the complex communication environment of the 21st century.

Question What are the main components covered in the Noun mass communication course outline? The Noun mass communication course outline typically includes modules on media theory, journalism, public relations, advertising, broadcasting, media law and ethics, and communication research methods. **Answer** How does the Noun programme prepare students for careers in mass communication? The programme provides practical skills through hands-on training, internships, and project work, alongside theoretical knowledge in media production, communication strategies, and ethical considerations, preparing students for diverse roles in media industries. Are there specific modules on digital media and new communication technologies in the Noun course? Yes, the course includes modules on digital media, social media management, online journalism, and emerging communication technologies to equip students with contemporary skills relevant to

today's media landscape. What are the prerequisites or entry requirements for enrolling in the Noun mass communication course? Entry requirements typically include a minimum of a senior secondary school certificate (such as WAEC, NECO, or equivalent), with good grades in relevant subjects, and sometimes an application or interview process depending on the programme level. Does the Noun mass communication course outline include practical components like internships or media production projects? Yes, practical components such as internships, media production projects, and field visits are integral parts of the course to provide students with real-world experience and industry exposure.

Related keywords: mass communication, course outline, noun programme, media studies, communication theories, journalism, public relations, advertising, media production, communication skills

Atomic Mass And Answer Key

Atomic mass and answer key are fundamental concepts in chemistry that provide insight into the composition of elements and how they relate to the periodic table. Understanding atomic mass is essential for students, educators, and professionals working in scientific fields, as it influences calculations, reactions, and the understanding of matter at the atomic level. This article offers a comprehensive overview of atomic mass, its significance, how it is determined, and how to interpret answer keys related to atomic mass calculations.

What is Atomic Mass?

Definition of Atomic Mass

Atomic mass, also known as atomic weight or atomic mass unit (amu), is the weighted average mass of the atoms in a naturally occurring sample of an element. It reflects the combined masses of protons, neutrons, and electrons, although electrons contribute negligibly to the overall mass. Atomic mass is expressed in atomic mass units, where 1 amu is defined as one-twelfth of the mass of a carbon-12 atom.

Atomic Mass vs. Atomic Number

While atomic mass measures the total mass of an atom, atomic number indicates the number of protons in the nucleus of an atom. The atomic number uniquely identifies an element, whereas atomic mass provides information about isotopic composition and mass distribution.

How Atomic Mass is Calculated

Isotopic Composition and Weighted Averages

Most elements consist of multiple isotopes?atoms of the same element with different numbers of neutrons. Each isotope has a specific atomic mass, and the atomic mass of an element is the weighted average of all its isotopes based on their natural abundance.

For example, Chlorine has two main isotopes:

- Chlorine-35 with about 75% abundance
- Chlorine-37 with about 25% abundance

The atomic mass of chlorine is calculated as:

\[

$$\text{Atomic mass} = (35 \times 0.75) + (37 \times 0.25) = 35.5, \text{amu}$$

\]

Calculating Atomic Mass from Isotope Data

The general formula for atomic mass is:

\[

$$\text{Atomic mass} = \sum (\text{isotope mass} \times \text{relative abundance})$$

\]

where the sum runs over all isotopes of the element.

Importance of Atomic Mass in Chemistry

Stoichiometry and Mole Calculations

Atomic mass is crucial for converting between mass and moles in chemical reactions. It allows chemists to determine the number of particles involved and to balance chemical equations accurately.

Determining Molar Mass

The molar mass of an element, expressed in grams per mole (g/mol), is numerically equivalent to the atomic mass in amu. For example, the molar mass of carbon is approximately 12.01 g/mol.

Understanding Isotopic Variability

Atomic mass variations can influence the properties of elements and compounds, especially in fields like geochemistry, isotope analysis, and nuclear medicine.

Answer Key Strategies for Atomic Mass Problems

Common Types of Questions

- Calculating atomic mass from isotope data
- Determining the average atomic mass given isotope abundances
- Estimating isotope composition based on atomic mass measurements
- Converting between atomic mass units and grams using molar mass

Tips for Solving Atomic Mass Questions

- Carefully identify all isotopes and their masses
- Convert percentages to decimal fractions before calculations
- Use the weighted average formula accurately
- Keep track of units throughout calculations
- Double-check your work by verifying that the sum of isotope abundances equals 100% (or 1.0 in decimal)

Sample Answer Key for a Typical Problem

Suppose a problem asks:

Calculate the atomic mass of an element with two isotopes, one with 60% abundance and an atomic mass of 50 amu, and the other with 40% abundance and an atomic mass of 52 amu.

Step 1: Convert percentages to decimals:

- 60% = 0.60

$$- 40\% = 0.40$$

Step 2: Apply the weighted average formula:

\[

$$\text{Atomic mass} = (50 \times 0.60) + (52 \times 0.40) = 30 + 20.8 = 50.8, \text{amu}$$

\]

Answer: The atomic mass of the element is approximately 50.8 amu.

Factors Affecting Atomic Mass Measurement

Natural Isotopic Abundance

Variations in isotopic abundance due to geographic or environmental factors can influence the measured atomic mass.

Measurement Techniques

Mass spectrometry is the primary tool used to determine the isotopic composition and atomic mass with high precision.

Implications of Atomic Mass Accuracy

Accurate atomic mass measurements are essential for precise scientific research, including nuclear physics, environmental science, and pharmaceutical development.

Periodic Table and Atomic Mass

Periodic Trends

Atomic masses increase generally from top to bottom within a group and from left to right across periods, reflecting the addition of protons and neutrons.

Atomic Mass and Atomic Number

Although the atomic number is a whole number, atomic masses are often fractional due to isotopic mixtures. The periodic table displays average atomic masses to reflect this.

Common Misconceptions About Atomic Mass

- Believing atomic mass is a whole number (it often isn't due to isotopic variation)
- Confusing atomic mass with mass number (mass number is an integer specific to an isotope)
- Assuming atomic mass is the sum of protons and neutrons (electrons contribute negligibly)

Conclusion

Understanding atomic mass and answer key strategies is vital for mastering chemistry. Atomic mass serves as a bridge between atomic scale phenomena and macroscopic measurements, enabling scientists to quantify and predict chemical behavior accurately. Whether calculating molar masses, analyzing isotopic compositions, or interpreting data, a solid grasp of atomic mass concepts ensures precision and clarity in scientific endeavors.

Remember: Always verify isotope data, perform weighted averages carefully, and interpret answer keys critically to develop strong problem-solving skills in chemistry.

Atomic Mass and Answer Key: A Comprehensive Exploration

Understanding atomic mass and mastering how to accurately determine and utilize it is fundamental to the study of chemistry and physics. These concepts form the backbone of atomic and molecular calculations, enabling scientists and students alike to interpret the composition of matter, predict chemical reactions, and understand the properties of elements. In this detailed review, we will delve into the meaning of atomic mass, how it is measured, its significance, and the common challenges associated with it, along with providing an answer key to practical problems involving atomic mass.

What is Atomic Mass?

Definition and Basic Concept

Atomic mass, also known as atomic weight, is the average mass of atoms of an element, measured in atomic mass units (amu). It accounts for the relative abundance of isotopes?atoms of the same element with different numbers of neutrons?present naturally in a given sample.

- Atomic Mass Unit (amu): A unit defined as exactly $1/12$ of the mass of a carbon-12 atom. It facilitates a standardized way to compare atomic and molecular masses.
- Isotopes and Atomic Mass: Since most elements occur as a mixture of isotopes, atomic mass is

not a whole number but a weighted average reflecting isotopic distribution.

Difference Between Atomic Mass and Atomic Number

It's crucial to distinguish between atomic mass and atomic number:

- Atomic Number (Z): Number of protons in an atom's nucleus; defines the element.
- Atomic Mass (A): Total number of protons and neutrons in the nucleus; varies for isotopes.

While atomic number remains constant for an element, atomic mass can vary depending on isotopic composition.

Measurement and Calculation of Atomic Mass

Methods of Determining Atomic Mass

Atomic mass is primarily determined through sophisticated experimental techniques, including:

- Mass Spectrometry: The most accurate method, where atoms or molecules are ionized, accelerated, and their mass-to-charge ratios are measured. This technique allows for the precise determination of isotope abundances and atomic weights.
- X-Ray Spectroscopy: Used for identifying elements and their isotopic compositions in minerals and other samples.
- Chemical Methods: Historically, atomic mass was derived from chemical reactions and stoichiometry, but this is less precise than modern mass spectrometry.

Calculating Atomic Mass from Isotope Data

When an element has multiple isotopes, the atomic mass is calculated using the weighted average formula:

$$\bar{A} = \sum (f_i \cdot A_i)$$

$$\text{Atomic Mass} = \sum_i (\text{Mass of isotope}_i \times \text{Fractional abundance}_i)$$

\\

Example:

Suppose an element has two isotopes:

- Isotope A: mass = 10.0 amu, abundance = 20%
- Isotope B: mass = 11.0 amu, abundance = 80%

Then,

\\

$$\text{Atomic Mass} = (10.0 \times 0.20) + (11.0 \times 0.80) = 2.0 + 8.8 = 10.8, \text{ amu}$$

\\

Significance of Atomic Mass

In Chemical Calculations

Atomic mass is vital for converting between moles and grams, which is fundamental in stoichiometry. For example:

- Determining the molar mass of compounds.
- Calculating the number of atoms in a sample.
- Balancing chemical equations with mass considerations.

In Physical and Material Sciences

- Understanding isotopic variations in natural samples.
- Analyzing the stability and decay pathways of radioactive isotopes.
- Developing materials with specific isotopic compositions for medical or industrial applications.

In Atomic and Molecular Physics

- Modeling atomic behavior and spectral lines.
- Calculations involving atomic and molecular energies.

Common Challenges and Misconceptions

Misunderstanding Isotopic Distributions

Students often assume atomic mass is a whole number, but due to isotopic mixtures, it's usually a decimal. Recognizing the difference is crucial.

Assuming Atomic Mass Equals Mass Number

The mass number (A) is an integer count of protons and neutrons, but atomic mass is an average that accounts for all isotopes.

Neglecting Isotopic Abundance

Accurate atomic weight calculations depend on knowing the natural isotopic abundances, which can vary slightly based on source and sample.

Answer Key to Atomic Mass Problems

Below is a set of typical problems with their solutions to aid understanding:

Problem 1: An element has two isotopes: 60% of the atoms have a mass of 35 amu, and 40% have a mass of 37 amu. What is the atomic mass of the element?

Solution:

\[

$$\text{Atomic mass} = (35 \times 0.60) + (37 \times 0.40) = 21 + 14.8 = 35.8, \text{ amu}$$

\]

Answer: 35.8 amu

Problem 2: The atomic mass of chlorine is approximately 35.45 amu. Given that the isotopic masses are 34.97 amu (about 75.78%) and 36.97 amu (about 24.22%), verify these percentages.

Solution:

Calculate the weighted average:

\[

$$(34.97 \times 0.7578) + (36.97 \times 0.2422) \approx 26.52 + 8.96 = 35.48, \text{amu}$$

\]

The calculated average (~35.48) closely matches the known atomic mass (~35.45), confirming the isotopic abundances.

Problem 3: An isotope of element X has a mass of 125 amu and constitutes 60% of the element's natural isotopic mixture. The other isotope has a mass of 127 amu. What is the atomic mass of element X?

Solution:

Let the fractional abundance of the 127 amu isotope be x . Since total percentages sum to 100%:

\[

$$0.60 \text{ (for 125 amu)} + x = 1 \Rightarrow x = 0.40$$

\]

Calculate the atomic mass:

\[

$$(125 \times 0.60) + (127 \times 0.40) = 75 + 50.8 = 125.8, \text{amu}$$

\]

Answer: 125.8 amu

Application of Atomic Mass in Real-World Contexts

Calculating Moles and Mass

One of the primary uses of atomic mass is converting between mass and moles:

- Number of moles: $\text{moles} = \frac{\text{mass (g)}}{\text{molar mass (g/mol)}}$

- Number of atoms: $\text{atoms} = \text{moles} \times N_A$, where N_A is Avogadro's number.

Isotopic Labeling and Tracing

In biological and environmental sciences, knowing precise atomic masses allows for isotopic labeling, helping track chemical pathways and sources.

Material Science and Nuclear Physics

Atomic mass informs the stability of isotopes, decay processes, and the design of nuclear reactors or medical isotopes.

Conclusion

Atomic mass is a cornerstone concept in chemistry and physics that encapsulates the weighted average of an element's isotopic masses. Its accurate determination through experimental techniques like mass spectrometry enables scientists to perform precise calculations essential for research, industry, and education. Recognizing the nuances of isotopic distribution, understanding the distinction between atomic mass and atomic number, and mastering the calculation methods are critical skills for students and professionals alike. The answer key provided offers practical insights into solving typical problems, reinforcing theoretical understanding with real-world applications.

Mastery of atomic mass concepts empowers a deeper comprehension of matter's fundamental nature and enhances the ability to manipulate and interpret atomic-scale phenomena effectively.

Question What is atomic mass and how is it measured? Atomic mass is the weighted average mass of an element's isotopes expressed in atomic mass units (amu). It is measured using mass spectrometry, which determines the relative abundance of isotopes in a sample. **Why is atomic mass not always a whole number?** Atomic mass is not always a whole number because it represents a weighted average of all isotopes' masses, which vary slightly, resulting in a decimal value rather than an integer. **How does atomic mass relate to atomic weight in the periodic table?** Atomic mass is the precise mass of a specific isotope, while atomic weight (or atomic number) is the average mass of all isotopes of an element, listed on the periodic table, reflecting natural isotope abundance. **How can I calculate the atomic mass of an element if I know its isotopic abundances?** To calculate the atomic mass, multiply each isotope's mass by its relative abundance (as a decimal), then sum these values: $\text{Atomic mass} = (\text{mass of isotope 1} \times \text{abundance 1}) + (\text{mass of isotope 2} \times \text{abundance 2}) + \dots$ **What is an atomic mass unit (amu), and why is it used?** An atomic mass unit

(amu) is a unit of mass used to express atomic and molecular weights, defined as one-twelfth the mass of a carbon-12 atom, providing a convenient scale for comparing atomic masses. How does understanding atomic mass help in chemical calculations? Knowing atomic mass allows for precise calculations of molecular weights, stoichiometry in chemical reactions, and conversions between mass and moles, which are essential in lab work and chemical analysis. What is the answer key for questions related to atomic mass used for? An answer key for atomic mass questions provides correct solutions and explanations, helping students verify their understanding, practice problem-solving, and prepare for exams.

Related keywords: atomic mass, atomic weight, periodic table, isotopes, molar mass, atomic number, chemical elements, atomic structure, mass number, answer key

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