MECHANICAL ENGINEERING ALL FORMULAS MACHINE DESIGN

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What are the basic of machine design in mechanical engineering? Machine design focuses on the basic principles of the following three areas: Mechanical behavior includes statics, dynamics, strength of materials, vibrations, reliability, and fatigue. Machine elements are basic mechanical parts of machines.

What equations do mechanical engineers use?

What is the formula for power in machine design? The three formulas for power in mechanics are: P = W/t (Power equals work divided by time), P = F * v (Power equals force multiplied by velocity), and P = I * V (Power equals current multiplied by voltage).

What is the basic mechanical design equation? Solid mechanics: Torque/moment of the force: M=F?r. Newton's second law: F=m?a F = m ? a and for rotational motion: M=I? Weight: F=m?g.

Is machine design difficult? It depends upon your interest. It is bit tough but if you learn the important concepts and topics what it needs then this is for you. Try to learn about key, shaft, gear etc.. and also the machine design component. For machine design projects, I recommend SkillPractical.com DIY projects.

What are the 6 types of machines in mechanical engineering? The six types of simple machines are the wheel and axle, pulley, lever, wedge, inclined plane, and screw.

What are the 20 formulas in physics?

What is the hardest math in mechanical engineering? 1. Thermodynamics: This course typically covers the principles and laws governing the transfer of heat and energy in mechanical systems. Students often find the abstract theoretical concepts and related mathematical equations particularly challenging.

What are the 4 mechanics equations? The equations are as follows: v=u+at,s=(u+v2)t,v2=u2+2as,s=ut+12at2,s=vt?12at2.

What is the Watt's law formula? Watt's Law: W = V x A x p.f. wattage equals voltage times current times power factor.

What does p vi mean? The electric power is given by P = VI, where V is the potential difference, I is the electric current and P is the electric power.

What is p in electricity? Electric power (P) is simply the product of current times voltage. Power has familiar units of watts. Since the SI unit for potential energy (PE) is the joule, power has units of joules per second, or watts.

How to do design calculations?

What is the formula for total mechanical? In more detail, the total mechanical energy (E) of an object is the sum of its kinetic energy (K) and potential energy (U). This can be represented by the equation E = K + U.

What are the three types of mechanical design?

Which is the toughest subject in Mechanical Engineering?

What is the most complicated engineering machine? According to the Guinness Book of World Records, "The Large Hadron Collider (LHC) is the largest and most complex machine ever built."

How do I start a machine design? The steps in the machine design procedure include identifying the need for the equipment or machine, selecting possible mechanisms, analyzing forces, selecting materials, designing elements, making modifications, creating detailed drawings, production, and quality checking.

What are the 7 basic machines? Simple machines that are widely used include the wheel and axle, pulley, inclined plane, screw, wedge and lever. While simple machines may magnify or reduce the forces that can be applied to them, they do not change the total amount of work needed to perform the overall task.

What simple machine is a doorknob? Doorknob is an example of a wheel and axle.

What is the mechanical ratio? Mechanical advantage of a machine is defined as the ratio of load to the effort. Mechanical advantage of a machine gives its efficiency. Mechanical Advantage = Load /Effort.

What does r stand for in physics?

What is the hardest formula in physics? The hardest general equation to arrive at is perhaps the relativistic mass-energy equation E=m0c2/?1?v2/c2 $E = m_0 c_2 / 1 ? v_2 / c_2$. The hardest specific equations to solve are perhaps the nonlinear Schrodinger equations or nonlinear soliton equations, such as. i?t?=?(1/2)?x2?+?|?|2?

What is k in physics? The constant of proportionality k is called Coulomb's constant. In SI units, the constant k has the value k = 8.99 × 10 9 N ? m 2 /C 2. k = 8.99 × 10 9 N ? m 2 /C 2. The direction of the force is along the line joining the centers of the two objects.

Can I do engineering if I'm bad at maths? Granted, a small percentage of graduate engineers will work in a R&D setting that will require high level math. However, the reality is that the vast majority of engineers that graduate will work in industry. If you look at what they do, day in and day out, you will find that they need to be very good at algebra.

Which is the toughest engineering? Aerospace engineering is the toughest branch in engineering in world that deals with the designing, developing, testing, and operating of spacecraft, and related systems. It is a vast field with two major disciplines that is, aeronautical and astronautical engineering.

Is mechanical engineering math heavy? There are many mechanical engineering math requirements, as the field of mechanical engineering requires a strong math foundation.

What is the basis of mechanical design? Basics of Mechanical Design To design and produce an effective part, engineers must take into account all aspects of form and function to ensure that their product will not only operate as expected, but be able to be manufactured in the first place.

What are the mechanical elements of machine design? These elements are the basic building blocks in many types of machines. Parts such as fasteners (screws, nuts and bolts, rivets, etc.), chains, shafts, keys, bearings and belts are examples of general-purpose machine elements.

What is the basic general procedure of machine design? Machine design encompasses various aspects such as selecting appropriate materials, determining optimal dimensions and configurations, designing mechanical components, ensuring structural integrity, and considering factors like safety, reliability, and efficiency.

What are the four basic requirements of design of machine or its parts? The first steps consist of preparing a complete list of the requirement of the product. The requirements include the output capacity of the machine, service life, cost, and reliability. In some cases, the overall dimensions and weight of the product are specified.

What is mechanical CAD design? Mechanical CAD (MCAD), also referred to as mechanical design automation (MDA), software enables mechanical engineers to create product designs with accurate and detailed technical drawings (2D or 3D models), and specifications for engineering and manufacturing.

What are the rules of machine design? The principles of machine design include: understanding the requirements and purpose of the machine; selecting the right materials for its components; ensuring safety, reliability and durability; efficient energy consumption; and designing for ease of production, operation, maintenance, and cost-effectiveness.

What are the three types of mechanical design?

How do mechanical engineers design machines? Most machine design engineers use computer-aided design (CAD) tools for their work. There are three main types of machine design: 1. The process of designing the shape, dimensions, and tolerances of the components such as bearings, gears, screws, etc.

What are the methods of mechanical design? There are many different mechanical engineering design methodologies, such as the engineering design process, the design thinking method, the TRIZ method, and the axiomatic design method. Each one has its own advantages, disadvantages, and applicability.

What are the principles of machine design? Machine design refers to machines that meet specific performance requirements, considering safety, manufacturability, and maintenance factors. Mechanical engineers use machine design principles to create innovative solutions that improve performance while lowering production costs.

What is machine design code? Codes are laws or regulations that specify minimum standards to protect health and safety. What are Technical Regulations? Technical regulations are a mandatory government requirement that defines the characteristics and/or performance requirements of a product, service or process.

What are the 7 steps of the engineering design process?

What is the basic of machine code? Machine code, also known as machine language, is the elemental language of computers. It is read by the computer's central processing unit (CPU), is composed of digital binary numbers and looks like a very long sequence of zeros and ones.

What are the general procedures in machine design?

How to create a mechanical design? In the typical mechanical design process, there are 5 steps involved: problem identification, idea generation, solution selection, prototyping, and testing. Defining the problem: The first step in the process is to identify the problem that the designers and engineers want to solve.

What are the basic knowledge of mechanical design engineer? Understanding of mechanical principles and systems. Knowledge of mathematics, including calculus

and linear algebra. Familiarity with engineering materials and their properties. Proficiency in using engineering software and tools for analysis and design.

¿Cuál es el lenguaje de programación de Android? Java es el lenguaje predominante de la programación de Android y el segundo lenguaje que aprenden muchos desarrolladores. Tanto Kotlin como Java son lenguajes de programación oficiales para Android.

¿Cómo configurar Android Studio en español? Una vez que estés en la aplicación «Configuración», desplázate hacia abajo hasta encontrar la sección «Idioma y entrada» (puede variar dependiendo de la versión de Android que estés utilizando). Haz clic en esta opción para acceder a la configuración del idioma.

¿Qué lenguajes de programación usa Android Studio? Java 8+ API desugaring support (Android Gradle Plugin 4.

¿Que se puede programar con Kotlin? Kotlin se puede emplear para cualquier tipo de desarrollo, desde la web del lado del servidor y del lado del cliente, hasta Android e iOS. Además, permite compartir código entre diferentes plataformas. Flexibilidad. Brinda a los desarrolladores la libertad de trabajar con el estilo que elijan.

¿Qué se usa para programar en Android? Para programar en Android se utiliza el IDE de Google llamado Android Studio, y para programar en iOS, se utiliza el IDE xCode.

¿Quién usa Kotlin? El 7 de mayo de 2019, Google anunció que el lenguaje de programación Kotlin es ahora el lenguaje preferido para los desarrolladores de apps Android,? y desde el lanzamiento de Android Studio 3.0 en octubre de 2017, Kotlin se ha incluido como alternativa al compilador Java estándar.

¿Cómo configurar un Android a español?

¿Qué procesador se necesita para correr Android Studio?

¿Cómo se usa Android Studio? Android Studio es el entorno de desarrollo integrado (IDE) oficial para el desarrollo de aplicaciones para Android y está basado en IntelliJ IDEA. Se trata de un software que incluye los servicios y las herramientas

necesarias para que un desarrollador sea capaz de crear nuevas aplicaciones.

¿Qué es mejor Kotlin o Java? Kotlin también presenta una sintaxis mejorada, así como expresiones concisas y abstracciones. Usar Kotlin con Java reduce el código repetitivo excesivo. Lo cual es una gran victoria para los desarrolladores de Android.

¿Cómo se crea una aplicación para Android?

¿Cómo se usa Kotlin? Kotlin es un lenguaje de programación moderno que ayuda a los desarrolladores a aumentar su productividad. Por ejemplo, te permite ser más conciso y escribir menos líneas de código para la misma funcionalidad en comparación con otros lenguajes de programación.

¿Por que usar Kotlin y no Java? Kotlin puede ser puesto a prueba en tan solo una parte del código, sin necesidad de alterar la totalidad del proyecto. Lo cual le hace ganar más puntos en esta elección entre Kotlin vs Java. Se exporta una API de Java, cuya apariencia es idéntica al código de Java.

¿Cuánto gana un programador Kotlin? Sueldos para Kotlin Developer en México El sueldo estimado para un Kotlin Developer es $29,860 por mes. Este número representa la mediana, que es el punto medio de los intervalos de nuestro modelo patentado de estimación de pago total, y se basa en los sueldos recopilados de nuestros usuarios.

¿Cuánto tiempo se tarda en aprender Kotlin? El tiempo estimado es de 10 horas por semana durante tan solo seis meses. Kotlin, el lenguaje de programación para desarrollar aplicaciones para Android. Sin embargo, cada estudiante puede disponer de su tiempo como prefiera y según sus necesidades.

¿Qué lenguaje se usa para programar en Android? Java es muy conocido en el ambiente de programación Android por ser un lenguaje que tiene una comunidad bastante grande y sobre todo una comunidad con bastante experiencia en el desarrollo de software.

¿Cuál es el mejor IDE para programar en Android? Android Studio basado en Intellij IDEA es seguramente el mejor entorno de desarrollo integrado para Android, ya que es el IDE oficial que ofrece Google para el citado sistema operativo.

¿Que estudiar para programar en Android? Los estudios necesarios para desarrollar una app móvil La mayoría de los desarrolladores de apps han de contar, necesariamente, con la posibilidad de estudiar informática online o presencial, o una Ingeniería, ya sea en Informática o en Telecomunicaciones.

¿Qué tan difícil es aprender Kotlin? Aprender a programar en Kotlin es sencillo. A eso hay que sumarle que la sintaxis de Kotlin es muy similar a Java, por lo que la curva de aprendizaje es bastante rápida.

¿Cuánto cuesta Kotlin? Aprende Kotlin desde cero aplica principios de programación Funcional, resolución de algoritmos y Clean Code. Calificación: 5,0 de 5282 reseñas8 horas en total55 clasesPrincipiantePrecio actual: 29,99 US$

¿Qué tan usado es Kotlin? Kotlin se ha convertido en uno de los lenguajes de programación favoritos de los desarrolladores de Android. Por lo tanto, es importante conocer las ventajas y desventajas de Kotlin. A diferencia de Java, este lenguaje fue creado con Android en mente y es bastante notorio a la hora de programar.

¿Cómo poner cualquier app en Español?

¿Cómo poner replika en Español? En la configuración, busca la opción de idioma y selecciona español . ¡Listo! Ahora puedes comenzar a interactuar con Replica en español.

¿Cómo cambiar el lenguaje en Chai? cuando descargas la aplicación para tener este widget. de corazón te sale en chino, no te preocupes, lo puedes cambiar superfácil. Te vas a ir a configuración en tu iPhone, luego a general y luego a donde dice idioma y región. Ahí vas a agregar un idioma. Selecciona inglés.

¿Qué procesador es mejor en Android? Los mejores procesadores de celulares suelen ser aquellos que ofrecen un equilibrio entre rendimiento y eficiencia energética. Algunos de los más destacados son el Qualcomm Snapdragon 888, el Apple A15 Bionic y el Samsung Exynos 2100.

¿Qué se necesita para instalar flutter? Para desarrollar con Flutter, utilizarás un lenguaje de programación llamado Dart. El lenguaje fue creado por Google en

octubre de 2011, pero ha mejorado mucho en los últimos años. Dart se enfoca en el desarrollo front-end y puedes usarlo para crear aplicaciones móviles y web.

¿Qué emulador usa Android Studio? Sí, Google ofrece un emulador de Android para PC oficial para usar cualquier versión de Android existente en un ordenador. Esta utilidad está integrada dentro de Android Studio, el entorno de desarrollo --IDE-- oficial del sistema, y su nombre técnico es AVD --Android Virtual Device--.

¿Qué lenguaje de programación utilizan los celulares?

¿Cuál es el lenguaje de los celulares? Java es el primer lenguaje que se utilizó para el desarrollo en Android y tiene muchos usos, no solo para crear apps móviles, sino que también se puede usar en sitios web, sistemas embebidos, sistemas de escritorio, entre otros.

¿Qué es Android en programación? Descripción. Android es un sistema operativo móvil basado en el núcleo Linux y otros software de código abierto. Inicialmente fue desarrollado por Android Inc., que fue adquirido por Google en 2005.

¿Qué tipo de lenguaje es Kotlin? Antes de comenzar En este curso, compilarás aplicaciones mediante la escritura de código en el lenguaje de programación Kotlin, que es el lenguaje recomendado por Google para crear nuevas apps para Android. Kotlin es un lenguaje de programación moderno que ayuda a los desarrolladores a aumentar su productividad.

¿Cuál es el mejor lenguaje para programar una app? C++, JavaScript y Java son potentes lenguajes de programación para este caso. Desarrollo de aplicaciones móviles. C++ y Java pueden proporcionar un excelente rendimiento para las aplicaciones móviles que estés construyendo.

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¿Cuál es la arquitectura del sistema operativo Android? La plataforma de hardware principal de Android es la arquitectura ARM.

¿Qué lenguaje se usa para programar en Android? Java es muy conocido en el ambiente de programación Android por ser un lenguaje que tiene una comunidad bastante grande y sobre todo una comunidad con bastante experiencia en el desarrollo de software.

¿Qué es la programación para Android en Java? El lenguaje Java constituye el núcleo del sistema operativo Android, en el que se basan la mayor parte de los smartphones del mundo. Java también se encuentra entre los lenguajes más populares para aplicaciones de ciencia de datos y machine learning.

¿Qué comunicación tiene el celular? La telefonía móvil convierte todo el tráfico que utilizas diariamente para comunicarte (voz, datos, texto, mensajes multimedia etc.) en señales de radiofrecuencia (RF), las cuales viajan a través del aire (espectro radioeléctrico) hasta llegar a su destino.

¿Qué tipo de software tiene el Android? Android es un sistema operativo principalmente para teléfonos móviles y otros dispositivos. Está formado por Linux (el núcleo de Torvalds), algunas bibliotecas, una plataforma Java y algunas aplicaciones. Excepto Linux, el software de las versiones 1 y 2 de Android fue desarrollado principalmente por Google.

¿Qué hace un programador de Android? Los desarrolladores de Android son profesionales de la informática responsables de crear y mantener aplicaciones móviles para dispositivos Android y para varios dispositivos móviles, como teléfonos inteligentes, tabletas, relojes inteligentes, televisores inteligentes, entre otros.

¿Cuál es el lenguaje de programación más usado en el mundo? JavaScript JavaScript, que se utiliza en desarrollo web, desarrollo de videojuegos, aplicaciones móviles y construcción de servidores web, sigue siendo entonces el lenguaje de programación más utilizado en la actualidad, en todo el mundo.

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¿Dónde se usa Kotlin? Kotlin se puede utilizar para cualquier tipo de desarrollo, desde la web del lado del servidor y del lado del cliente, hasta Android e iOS. Como el lenguaje se ejecuta en JVM, permite compartir código entre diferentes plataformas.

What is linguistic and translation studies? A linguistic approach in translation involves analyzing and interpreting language structures, cultural nuances, and context to convey accurate meaning and preserve the original message when converting text from one language to another.

What is the linguistic approach to translation? A linguistic approach to translation focus on purpose and equivalence. For instance, many words and phrases in language have the same meaning conveyed. However, the same definitions are representable by different expressions.

What are the branches of translation studies? Translation description and translation theory constitute the two branches of the discipline that focus on pure research. The third branch, applied translation studies, concerns itself with translator training, translation aids, translation policy, and translation criticism.

What is the introduction of translation studies? Translation studies is an academic interdiscipline dealing with the systematic study of the theory, description and application of translation, interpreting, and localization. As an interdiscipline, translation studies borrows much from the various fields of study that support translation.

What are the 4 types of translation studies?

Is language and linguistics a good degree? While teaching and writing are both excellent careers that a Linguistics degree can lead to, the list of potential professions is far longer and more varied than that. Among the possible future careers that you may not have thought of are forensic linguist, speech therapist and social worker.

What is a linguistic approach and example? The linguistic approach is teaching method that ensures that the school going children must have a strong command over their mother tongue or native language. Such knowing helps teachers to make their students better prepared for words and spelling patterns.

What are the two main approaches to translation? At a high level, there are two main approaches to translation: human and automatic. Depending on the type of text, the context, the target audience, and other factors, businesses will choose one or the other—or a combination of both. Let's take a closer look at each approach.

What is the process of translation in linguistics? The translation process corresponds to the technical part of a translation project and is made up of 3 consecutive and essential phases: 1) the preliminary phase, 2) the translation phase and 3) the revision or quality assurance phase. Let's analyse in detail these 3 stages of translation.

What is the aim of translation studies? Translation Studies aims to extend the methodologies, areas of interest and conceptual frameworks inside the discipline, while testing the traditional boundaries of the notion of "translation" and offering a forum for debate focusing on historical, social, institutional and cultural facets of translation.

Why do we need translation studies? Highly skilled translators are key. Translation Studies helps practitioners develop those skills." On an even wider scale, "translation is necessary for the spread of information, knowledge, and ideas. It is absolutely necessary for effective and empathetic communication between different cultures.

What are the principles of translation studies? The principle of translation between languages, the best summary and summary is the three-character motto: "faithfulness, expressiveness, elegance." Simply put, the content of a translation work is faithful to the original text, which is called "faithfulness", and the diction is smooth and smooth, which is called " ...

What is the linguistic theory of translation? The theory of translation is a complex and multidisciplinary field that sits at the intersection of science and art. At its core,

linguistic theory of translation is the process of conveying the essence and intent of a source text from one language to another, bridging the gap between different languages and cultures.

What is the approach to translation studies? Approaches to Translation Studies is an international series promoting the scholarly study of translation. The notion of plural 'approaches' to translation and its study calls up images of scholarly explorers following untrodden paths to translation, or more cautiously (re)tracing the familiar routes.

What is the basic knowledge of translation? Generally speaking, translation can be defined as the process of transferring, reproducing, replacing, or interpreting source text (ST) message, material, text, or meaning into another language focusing on meaning and style respectively.

What type of translation is most difficult? Translating Idioms and Expressions Many linguistic professionals insist that idioms are the most difficult items to translate. In fact, idioms are routinely cited as a problem machine translation engines will never fully solve.

What is an example of language translation? Example: Café (French), hamburger (German), kimono (Japanese) and kimchi (Korean). This is the literal translation of a phrase from one language into another, coining a new term in the target language. In other words, this is the literal translation of a borrowed word.

Who is considered the father of translation studies? James Stratton Holmes (1924-1986) is probably best known for his role as a 'founding father' of translation studies.

What is the highest paying job in linguistics?

What jobs can you do with a linguistics degree? Teaching, journalism, copy writing, translating, interpreting, marketing and public relations; these are just a few of the diverse career paths that a degree from the Department of Language and Linguistics could lead to.

Do linguistics majors make money? A forensic linguist in the U.S. can make somewhere between $43,000 and $126,000 annually, making it one of the more

profitable jobs with linguistics degree.

Is translation studies a good major? Studying translation is a great way to learn the technical skills and nuances of the work, including specific technology, terminology, and industry norms and etiquette. More and more translation vacancies may be coming up, but competition for these jobs is also on the rise.

What is the job of a linguist translator? Support broad variety of language-related tasks to include translation of documents, transcription of audio/video materials, triage, gisting, and/or interpretation. Native or near-native speaker of target language and advanced English language skills. Ability to pass a language test with a minimum ILR score of 3/3/3.

What do you study in translation studies? Translation studies examine translation from two aspects. One is its applied practice of translating (and interpreting) one language into another. The other aspects are the examination of translation "as a means of understanding the movement and transfer between diverse languages and cultures."

What is a masters in linguistics and translation? Master of Arts in Linguistics & Translation Graduates will be prepared to produce scientific descriptions of languages and cultures, literature and materials for literacy instruction, and translations of the Bible.

Sindh University Entry Test Paper: A Comprehensive Guide

The Sindh University Entry Test is a crucial examination for students seeking admission to various academic programs at the prestigious Sindh University. The test encompasses a wide range of subjects, including English, Mathematics, General Science, and Pakistan Studies.

English Section

The English section consists of 25 questions divided into three parts:

- **Vocabulary and Grammar (12 questions):** Questions assess vocabulary, grammar rules, and sentence structure.

- **Reading Comprehension (8 questions):** Candidates are tested on their ability to understand a given passage and answer questions related to its content.
- **Writing (5 questions):** Students are required to write short paragraphs or essays based on a given topic or prompt.

Answers:

- **Vocabulary and Grammar:**
    - Synonym of 'belligerent': aggressive
    - Correct form of 'who' in a sentence: who is

- **Reading Comprehension:**
    - Main idea of the passage: The importance of education
    - Meaning of 'diligent' in the context of the passage: hard-working

- **Writing:**
    - Topic: The benefits of technology in education

Mathematics Section

The Mathematics section comprises 50 questions covering topics from algebra, geometry, trigonometry, and statistics.

Answers:

- **Algebra:**
    - Solution to the equation: $x = -5$
    - Value of y in the equation: $2y + 3 = 7$

- **Geometry:**
    - Area of a triangle: $A = 1/2 \, b \, h$
    - Angle sum of a triangle: 180 degrees

- **Trigonometry:**
    - Value of sin(30 degrees): 1/2

- **Statistics:**
    - Mean of a dataset: 10

General Science Section

The General Science section encompasses 40 questions from Physics, Chemistry, Biology, and Environmental Studies.

Answers:

- **Physics:**
    - Law of motion: $F = ma$
    - Energy conversion in a hydroelectric power plant: Gravitational potential energy to electrical energy

- **Chemistry:**
    - Periodic trend: Atomic radius decreases from left to right in a period
    - Chemical equation for photosynthesis: $6CO_2 + 6H_2O \ ? \ C_6H_{12}O_6 + 6O_2$

- **Biology:**
    - Organelle responsible for protein synthesis: Ribosomes
    - Type of cell division involved in growth and repair: Mitosis

- **Environmental Studies:**
    - Greenhouse gas causing climate change: Carbon dioxide
    - Ozone layer protects us from: Ultraviolet radiation

Pakistan Studies Section

The Pakistan Studies section consists of 25 questions covering the history, geography, culture, and politics of Pakistan.

Answers:

- **History:**
    - First Governor-General of Pakistan: Muhammad Ali Jinnah
    - Year of Pakistan's independence: 1947

- **Geography:**
    - Largest province of Pakistan: Balochistan
    - Indus River is the lifeline of: Pakistan

- **Culture:**
    - National language of Pakistan: Urdu
    - Traditional attire for men in Pakistan: Shalwar kameez

- **Politics:**
    - Form of government in Pakistan: Parliamentary democracy
    - Current Prime Minister of Pakistan: Muhammad Shehbaz Sharif

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