

minimum educational qualifications for basic education certificate Manual

Minimum Educational Qualifications for Basic Education Certificate

Minimum educational qualifications for basic education certificate are fundamental benchmarks that determine a student's eligibility to receive a basic education certification. These qualifications are set by educational authorities to ensure that learners have acquired the essential knowledge and skills necessary to progress academically and professionally. Understanding these requirements is crucial for students, parents, educators, and policymakers aiming to foster quality education and equitable access. This article provides an in-depth overview of the minimum educational qualifications necessary for obtaining a basic education certificate, including the different levels, eligibility criteria, and the significance of these standards in the educational system.

Understanding the Basic Education Certificate

What is a Basic Education Certificate?

A Basic Education Certificate (BEC) is an official document awarded to students upon successful completion of a prescribed level of primary or basic education. It serves as a foundational qualification that signifies the student's readiness to advance to secondary education or vocational training. The certificate is a vital credential that validates a student's educational attainment and is often required for further educational or employment opportunities.

The Role of the Basic Education Certificate in the Educational System

- Marks the completion of primary or basic education levels
- Facilitates progression to secondary education or vocational training
- Serves as official proof of educational achievement
- Supports national development goals by ensuring a literate and skilled population

Minimum Educational Qualifications for Obtaining a Basic Education Certificate

General Eligibility Criteria

While specific requirements may vary by country or region, several common eligibility criteria

generally apply:

- Completion of a specified grade or age level in primary or basic education
- Attendance and participation in the required curriculum and assessments
- Fulfillment of attendance and behavioral standards set by the educational authority

Educational Level Requirements

Most jurisdictions stipulate the completion of certain grades or age thresholds before students are eligible for a basic education certificate. For example:

- Completion of primary education, usually Grades 1 through 6 or 1 through 8
- Attainment of a minimum age, often between 10 to 13 years, depending on the system

Specific Qualifications by Education Level

Primary Education Completion

To qualify for a basic education certificate, students must typically:

- Complete all required coursework in core subjects such as Mathematics, Science, Language Arts, and Social Studies
- Pass final examinations or assessments administered by the education authority
- Meet attendance and behavioral standards throughout the primary education period

Age and Residency Requirements

- Students usually need to be within a specific age range to qualify, ensuring age-appropriate learning levels
- Some regions require proof of residency or enrollment in recognized schools

Additional Criteria and Considerations

Language of Instruction

In many countries, students must demonstrate proficiency in the official language of instruction to be eligible for the certificate. This ensures they possess the necessary communication skills to pursue

further education or employment.

Special Needs and Exemptions

- Students with special educational needs may be granted alternative assessment pathways
- Exemptions are usually granted based on individual assessments and compliance with legal provisions

Assessment and Examination Standards

Achieving a minimum pass mark in standardized tests or continuous assessments is often a prerequisite. The exact passing criteria and grading scales differ across regions but generally include:

- Minimum percentage or grade required to pass
- Criteria for re-taking examinations if standards are not met

Importance of Meeting the Minimum Educational Qualifications

Pathway to Further Education

Having the minimum qualifications for a basic education certificate opens doors to secondary education, vocational training, and higher education. It ensures learners have foundational skills necessary for advanced studies.

Employment Opportunities

Many entry-level jobs and vocational roles require at least a basic education certificate. It acts as a minimum credential that enhances employability and career prospects.

Societal and Economic Development

A well-educated population contributes to national development by fostering a skilled workforce, reducing poverty, and promoting civic participation. Meeting educational qualifications is therefore integral to societal progress.

Challenges in Meeting Educational Qualifications

Barriers to Access

- Economic hardships preventing school enrollment
- Geographical barriers in rural or remote areas
- Gender disparities limiting access for girls and marginalized groups

Quality of Education

- Inadequate teaching resources and infrastructure
- Insufficient teacher training and professional development
- Curriculum gaps affecting student learning outcomes

Strategies for Improvement

- Implementing inclusive education policies
- Providing financial support and scholarships
- Enhancing teacher training programs
- Strengthening assessment and certification standards

Conclusion

The **minimum educational qualifications for basic education certificate** serve as essential benchmarks to ensure that learners acquire fundamental skills necessary for personal development and societal contribution. These qualifications typically involve completing specified grades, passing standardized assessments, and meeting age and behavioral standards. Achieving these standards paves the way for further education, better employment prospects, and active civic participation. Despite challenges such as access and quality issues, ongoing reforms and investments in education are vital to ensuring that all students can meet these minimum requirements and contribute meaningfully to their communities and nations.

Minimum Educational Qualifications for Basic Education Certificate: A Comprehensive Overview

The minimum educational qualifications for obtaining a Basic Education Certificate (BEC) serve as a foundational benchmark within many educational systems worldwide. These qualifications are designed not only to ensure that students meet certain academic standards but also to prepare them for further education, vocational training, or entry into the workforce. Understanding the nuances of these qualifications?what they entail, the criteria involved, and their implications?is crucial for educators, policymakers, students, and parents alike.

Introduction to Basic Education Certificates

A Basic Education Certificate (BEC) is typically awarded at the end of primary or lower secondary education, signifying that the student has acquired the fundamental knowledge and skills deemed necessary at that stage. The certification process varies across countries, but universally, it marks a significant milestone in a learner's academic journey. The certificate often serves multiple purposes, such as:

- Enabling progression to higher secondary education or vocational training
- Validating basic literacy, numeracy, and other core competencies
- Providing a formal qualification recognized by educational authorities and employers

Given its importance, the minimum educational qualifications required to attain a BEC are carefully defined to maintain standardization and quality assurance within educational systems.

Understanding the Scope of Minimum Educational Qualifications

The minimum qualifications refer to the specific level of learning, skills, and competencies that a student must demonstrate to be eligible for the Basic Education Certificate. These qualifications are usually outlined in national education policies, curriculum standards, and examination guidelines. They encompass various domains including literacy, numeracy, science, social studies, and life skills.

Key aspects include:

- Age eligibility: Age brackets often determine the typical cohort for BEC qualification.
- Curriculum completion: Students must complete the prescribed curriculum within a set timeframe.
- Assessment performance: Students must achieve a minimum passing grade or score on standardized examinations.
- Attendance and participation: Some systems require minimum attendance or participation in coursework and practical assessments.

Core Components of Minimum Educational Qualifications

The minimum educational qualifications for a Basic Education Certificate are generally categorized into several core components:

1. Literacy and Language Skills

Proficiency in the official or national language(s) is fundamental. Candidates are expected to

demonstrate:

- Reading comprehension
- Writing skills, including spelling and grammar
- Basic conversational abilities

These skills ensure that learners can function effectively in everyday contexts and participate meaningfully in societal activities.

2. Numeracy Skills

Numeracy forms the backbone of logical reasoning and problem-solving. Minimum qualifications typically include competence in:

- Basic arithmetic operations (addition, subtraction, multiplication, division)
- Understanding of fractions, decimals, and percentages
- Application of mathematical concepts to real-life scenarios

3. Scientific and Social Knowledge

Candidates should possess a fundamental understanding of basic scientific concepts (such as the environment, health, and technology) and social studies (history, geography, civics). This knowledge fosters informed citizenship and practical understanding of the world.

4. Life Skills and Values

Modern education emphasizes holistic development. Minimum qualifications often encompass:

- Critical thinking
- Communication skills
- Ethical values and social responsibility
- Problem-solving and decision-making abilities

5. Practical and Vocational Skills

In some education systems, basic vocational skills?such as basic computing, craftsmanship, or agricultural techniques?are integrated as part of the qualifying criteria, especially for students aiming to enter the workforce directly.

Educational Level and Age Criteria

The minimum qualifications are also defined in terms of the educational level attained and the age of the candidate. Typically:

- Educational Level: Completion of a specific grade or course sequence (e.g., Grade 8 or Year 8).
- Age Range: Usually between 12 to 16 years old, aligning with the typical age for completing primary or lower secondary education.

These criteria ensure that students have had adequate exposure to the curriculum and developmental readiness for certification.

Examinations and Assessment Standards

Assessment plays a pivotal role in determining whether a candidate meets the minimum qualifications. Generally:

- Candidates must pass a standardized examination covering core subjects.
- The passing score is often set at a threshold (e.g., 40-50%) to ensure competence.
- Continuous assessment through coursework, practicals, or projects may supplement written exams.
- Re-sit policies might be available for students who do not meet the passing criteria initially.

The nature of the assessments ensures that the certification reflects genuine mastery of the required skills and knowledge.

Variations Across Countries and Regions

The specifics of minimum educational qualifications for a BEC differ significantly based on national policies, regional educational frameworks, and socio-economic contexts.

Examples include:

- Kenya: The Kenya Certificate of Primary Education (KCPE) requires completion of primary education with passing marks in key subjects.
- India: The Secondary School Certificate (SSC) or equivalent is awarded after successfully passing the Grade 10 examinations.
- South Africa: The National Senior Certificate (Matric) serves as the basic qualification for

secondary education, with minimum subject pass requirements.

Despite differences, the core principle remains consistent: ensuring that students have acquired foundational competencies before progressing.

Implications and Significance of Minimum Qualifications

Meeting the minimum educational qualifications for a BEC has several implications:

- Educational Progression: It is often a prerequisite for admission into higher secondary or vocational institutions.
- Employment Opportunities: Some entry-level jobs or apprenticeships require the possession of a basic certificate.
- Social Mobility: Certification can be a stepping stone towards better socio-economic status.
- National Development: A literate and educated populace is essential for economic growth and social stability.

Furthermore, these qualifications serve as a benchmark for educational quality and accountability, guiding curriculum development and teaching standards.

Challenges and Criticisms

While establishing minimum qualifications is essential, several challenges persist:

- Access and Equity: Disparities in access to quality education can hinder marginalized groups from achieving minimum standards.
- Assessment Fairness: Standardized testing may not always accurately reflect a student's true abilities or potential.
- Curriculum Relevance: Rapid technological changes demand continuous curriculum updates to ensure relevance.
- Resource Constraints: Limited infrastructure, trained teachers, and learning materials can affect student performance and qualification attainment.

Critics argue that overemphasis on exam results may narrow educational focus and neglect holistic development.

Conclusion

The minimum educational qualifications for a Basic Education Certificate represent a critical

foundation within education systems worldwide. They serve as a gatekeeper, ensuring that learners have acquired essential skills and knowledge to participate effectively in society and further learning. While these qualifications are vital for standardization and quality assurance, ongoing efforts are necessary to address challenges related to equity, assessment fairness, and curriculum relevance. As education continues to evolve in response to societal and technological changes, so too must the standards and criteria defining what constitutes basic education and the qualifications that attest to it. Ultimately, a robust and equitable framework for minimum educational qualifications can contribute significantly to individual empowerment and national development.

QuestionAnswer What is the minimum educational qualification required to obtain a Basic Education Certificate? The minimum qualification typically required is completion of a certain level of primary or middle school education, depending on the country's regulations, such as passing a specified grade level or equivalent. Do I need to complete secondary education to qualify for a Basic Education Certificate? No, a Basic Education Certificate generally pertains to primary or middle school completion; secondary education is usually required for higher certifications. Are there any age restrictions for applying for a Basic Education Certificate? Age restrictions vary by country, but generally, applicants should be within a specific age range suitable for primary or middle school completion levels. Is prior work experience required to obtain a Basic Education Certificate? No, work experience is not required; the certification is based on academic qualifications and passing the necessary examinations. Can students with incomplete schooling apply for a Basic Education Certificate? Typically, applicants need to have completed the required level of schooling; however, some regions may offer equivalency programs for those with incomplete education. What are the common eligibility criteria for registering for the Basic Education Certificate exam? Eligibility criteria usually include age requirements, completion of certain grade levels, and sometimes residency or nationality prerequisites. Is there a difference in minimum educational qualifications for a Basic Education Certificate in different countries? Yes, the minimum qualifications can vary depending on national education policies and standards, so it's important to check the specific country's requirements. How can I verify if I meet the minimum educational qualifications for the Basic Education Certificate? You should consult your local education authority or examining body to review the specific qualification requirements and ensure your educational background meets the criteria.

Related keywords: basic education certificate, minimum qualification, education requirements, eligibility criteria, certification standards, primary education, schooling prerequisites, academic qualifications, educational levels, certification criteria

c visual basic download

c visual basic download is a popular query among developers and hobbyists interested in creating applications using Visual Basic programming language integrated with C environments. Whether you're a beginner exploring software development or an experienced programmer looking to expand your toolkit, understanding how to download and set up C Visual Basic environments is essential for efficient coding and project management.

Introduction to C Visual Basic

Before diving into the download process, it's important to understand what C Visual Basic is and how it differs from traditional Visual Basic.

What is C Visual Basic?

C Visual Basic is not an official language but rather a conceptual combination where developers utilize Visual Basic's ease of use within a C-based development environment. Often, this refers to integrating Visual Basic components or libraries into C projects or using Visual Basic.NET within Visual Studio, which is built on a C++ foundation.

Why Use C Visual Basic?

- **Ease of Development:** Visual Basic offers a straightforward syntax ideal for rapid application development.
- **Integration with .NET:** Visual Basic.NET seamlessly integrates with the .NET framework, allowing access to extensive libraries.
- **Cross-language Compatibility:** Combining C and Visual Basic in projects allows leveraging strengths of both languages.

How to Download C Visual Basic

Downloading C Visual Basic involves obtaining the appropriate IDEs, SDKs, or runtime libraries needed for development. The most common and official route is via Microsoft Visual Studio.

Step 1: Choose the Right Development Environment

There are multiple options depending on your needs:

- **Visual Studio Community Edition:** Free, feature-rich IDE suitable for most developers.
- **Visual Studio Professional/Enterprise:** Paid versions with advanced features.
- **Other IDEs:** Such as JetBrains Rider or Visual Studio Code with extensions, though Visual

Studio is recommended for full Visual Basic support.

Step 2: Download Visual Studio

Official Download Link

Visit the [Microsoft Visual Studio official download page](<https://visualstudio.microsoft.com/downloads/>) to acquire the latest version.

Installation Process

- Select the Edition: Choose either Community (free), Professional, or Enterprise.
- Run the Installer: Download and execute the installer.
- Choose Workloads: During setup, select relevant workloads such as:
 - ".NET desktop development"
 - "Desktop Development with C++" (if needed)
 - "Universal Windows Platform development" (for UWP apps)
- Install: Proceed with the installation, which may take some time depending on your system.

Step 3: Install Visual Basic Components

Visual Basic components are included in the ".NET desktop development" workload. Ensure this is selected during installation.

Step 4: Verify the Installation

Open Visual Studio and create a new project:

- Go to File > New > Project
- Search for Visual Basic templates, such as "Console App (.NET Framework)" or "Windows Forms App (.NET Framework)."

If Visual Basic templates are available, the installation was successful.

Alternative Methods to Download C Visual Basic Components

While Visual Studio remains the standard platform, here are other options:

Using Visual Studio Code

- Visual Studio Code is a lightweight editor.
- Install the .NET SDK from [Microsoft's official .NET download page](<https://dotnet.microsoft.com/download>).
- Add extensions like OmniSharp for C support.
- For Visual Basic, support is limited; thus, Visual Studio is recommended.

Using .NET SDKs and Command Line Tools

- Download the .NET SDK directly from [Microsoft's .NET downloads](<https://dotnet.microsoft.com/download>).
- Use command-line interfaces to create and manage projects with Visual Basic.

System Requirements for Downloading and Running C Visual Basic

Ensure your system meets the following requirements:

Requirement	Minimum Specification
Operating System	Windows 10 or later (recommended)
RAM	4 GB (8 GB recommended)
Disk Space	20 GB free space
Processor	Dual-core 2 GHz or higher

Tips for Smooth Download and Installation

- Stable Internet Connection: Download sizes can be large; a reliable connection speeds up the process.
- Administrator Rights: Run installers with administrator privileges.
- Update Windows: Ensure your OS is up to date for compatibility.

- Disable Antivirus Temporarily: Sometimes, security software may interfere; disable temporarily if issues arise.

Learning Resources for C Visual Basic

Once you've downloaded and installed the development environment, consider exploring these resources:

- Microsoft Documentation: Comprehensive guides on Visual Basic and C integration.
- Online Tutorials: Websites like Microsoft Learn, Udemy, and Coursera offer courses on Visual Basic and C.
- Community Forums: Stack Overflow, Reddit's r/learnprogramming, and Microsoft Developer Community are valuable for troubleshooting.

Common Issues and Troubleshooting

Issue 1: Missing Visual Basic Templates

Solution: Ensure during installation that the ".NET desktop development" workload is selected.

Issue 2: Installation Fails or Crashes

Solution: Check system requirements, run the installer as administrator, and disable conflicting security software.

Issue 3: Cannot Find C Visual Basic in IDE

Solution: Verify that Visual Basic components are installed and enabled in Visual Studio settings.

Conclusion

C Visual Basic download is a straightforward process primarily centered around obtaining Microsoft Visual Studio, which provides a comprehensive environment for developing with Visual Basic and integrating C. By choosing the right edition, verifying system requirements, and following installation best practices, developers can quickly set up their environment to start creating robust applications. Remember to keep your IDE updated, utilize available learning resources, and participate in community forums to enhance your programming skills. Whether you're developing simple desktop apps or complex enterprise solutions, mastering the download and setup process is the first step toward successful software development with C and Visual Basic.

C Visual Basic Download: A Comprehensive Guide to Getting Started with Visual Basic in C Environment

Introduction to C Visual Basic and Its Significance

Visual Basic (VB) has long been a popular programming language for rapid application development, especially within the Microsoft ecosystem. Historically, it was a standalone language designed for creating Windows applications with a graphical user interface (GUI). However, many developers and learners are now interested in integrating Visual Basic capabilities into C or C++ projects, or leveraging Visual Basic's ease of use within a C environment.

C Visual Basic download refers to obtaining the tools, libraries, or environments necessary to develop, run, and integrate Visual Basic code within C projects or environments. This process involves understanding the compatibility, available tools, and how to set up a development environment that supports both languages effectively.

Understanding the Relationship Between C and Visual Basic

Before diving into the download process, it's essential to clarify the relationship between C and Visual Basic:

- **Different Paradigms:** C is a procedural programming language, emphasizing low-level memory management and system-level programming. Visual Basic, on the other hand, is event-driven and designed for rapid application development with a focus on GUI design.
- **Interoperability:** Modern development often requires integrating components written in different languages. Visual Basic can be used to create COM components or DLLs that are callable from C code.
- **Bridging the Gap:** To enable C programs to use Visual Basic components, developers often utilize COM interfaces, DLLs, or .NET interoperability features.

Prerequisites for Downloading and Using Visual Basic in a C Environment

Before downloading any tools or SDKs, ensure your system meets the following prerequisites:

- **Operating System:** Windows (since Visual Basic and related tools are primarily Windows-based)
- **Development Environment:** Visual Studio IDE (Community, Professional, or Enterprise editions)
- **.NET Framework/SDK:** Depending on the version of Visual Basic you intend to use
- **C Compiler:** Visual C++ or other compatible C compilers that support interoperability

Sources for Downloading Visual Basic and Related Tools

Several official sources and packages are available for downloading Visual Basic components and tools that enable integration with C. Here are the primary options:

- Visual Studio IDE

Visual Studio is the primary development environment for Visual Basic, C, and C#. It includes all necessary SDKs, compilers, and tools to develop and interoperate between languages.

- Download Link:

<https://visualstudio.microsoft.com/downloads/>

- Versions Available:
- Community (free)
- Professional
- Enterprise

What's included:

- Visual Basic development tools
 - C/C++ development tools
 - .NET Framework and SDKs
 - COM component creation and registration tools
-
- Visual Basic Runtime Libraries

For existing Visual Basic applications or components, you might need the runtime libraries installed on your system.

- Download Link: Usually included with Visual Studio installation
 - Alternatively: Windows Update or Microsoft's official runtime installers
-
- .NET SDKs and Frameworks

If you plan to work with Visual Basic .NET (VB.NET), then installing the appropriate SDKs is

essential.

- Download Link: <https://dotnet.microsoft.com/download>
- COM and Interop Libraries

For integrating Visual Basic components into C, you might need to register COM libraries.

- Use regsvr32.exe for registration
- Use tlbimp.exe (Type Library Importer) to generate interop assemblies for C

Step-by-Step Guide to Downloading and Setting Up Visual Basic for C Projects

Step 1: Download and Install Visual Studio

- Visit the official Visual Studio download page.
- Choose the version suited for your needs (preferably the Community edition for beginners).
- Run the installer and select the following components:
 - ".NET desktop development" workload (for VB.NET)
 - "Desktop development with C++" workload (for C/C++)
- Complete the installation process.

Step 2: Install Additional SDKs and Runtime Libraries

- Ensure that the latest .NET Framework or .NET Core/5+ SDK is installed if working with VB.NET components.
- For legacy VB6 applications, download the VB6 Runtime from Microsoft.

Step 3: Create or Obtain Visual Basic Components

- Develop your Visual Basic components (ActiveX DLLs, COM objects, or .NET assemblies).
- Compile the VB code within Visual Studio.
- Register the compiled DLLs or EXEs using regsvr32.exe if they are COM components.

Step 4: Setting Up C Projects to Use Visual Basic Components

- Use Type Libraries (.tlb) to generate interop assemblies.
- Use TLBIMP to create a .NET interop assembly if necessary:

...

```
tlbimp YourVBComponent.tlb /out:InteropYourVBComponent.dll
```

...

- Reference the generated assembly in your C project (if using C) or import the COM component in C++.

Step 5: Build and Test Integration

- Write C code that calls the Visual Basic components via COM interfaces or DLL exports.
- Debug and ensure proper communication between the C and VB components.

Alternatives and Additional Tools for C Visual Basic Download

While Visual Studio remains the primary platform, other options include:

- SharpDevelop: An open-source IDE supporting .NET languages, including VB.NET.
- Command-Line Tools: Use SDKs like MSBuild, TLBIMP, or Regsvr32 for scripting and automation.
- Third-Party Libraries: Some libraries facilitate easier interoperability, such as COM Interop Libraries.

Common Challenges and Troubleshooting

- Compatibility Issues: Ensure that VB components are built targeting the correct runtime (32-bit

vs. 64-bit).

- Registration Problems: Make sure COM components are registered correctly with administrator privileges.
- Interoperability Errors: Use proper marshaling attributes and ensure method signatures match across languages.
- Version Mismatches: Keep SDKs and runtime libraries updated and consistent across development environments.

Best Practices for Using Visual Basic in C Projects

- Always create clear interfaces between C and VB components.
- Use type libraries for smooth COM interoperability.
- Maintain proper registration of COM components.
- Document all interfaces and dependencies thoroughly.
- Test integration on all target platforms (32-bit and 64-bit).

Conclusion: Is Downloading Visual Basic Necessary for C Developers?

Downloading and setting up Visual Basic tools is essential if you aim to develop or integrate Visual Basic components into C projects. Whether creating ActiveX controls, COM objects, or leveraging VB.NET assemblies, having the right IDE, SDKs, and runtime libraries is crucial.

By following the detailed steps outlined above, developers can efficiently obtain and set up the necessary tools for seamless C and Visual Basic integration. This setup not only expands the capabilities of C projects but also opens avenues for rapid application development, automation, and leveraging existing Visual Basic codebases.

Final Words

C Visual Basic download is more than just obtaining files; it's about understanding the ecosystem, compatibility considerations, and effective integration techniques. With the right tools and knowledge, developers can harness the strengths of both languages, creating robust, flexible, and efficient applications. Always keep your development environment updated, consult official documentation, and participate in developer communities for best practices and troubleshooting.

Happy coding!

Question Where can I download the latest version of Visual Basic for C development?
Answer You can download the latest Visual Basic development tools through the official Microsoft Visual

Studio website, which includes Visual Basic as part of the Visual Studio IDE. Is Visual Basic available for free download? Yes, Visual Basic is available for free as part of the Visual Studio Community Edition, which is free for individual developers, open-source projects, and small teams. What are the system requirements for downloading Visual Basic C? System requirements depend on the version of Visual Studio you choose. Generally, a Windows 10 or later OS, at least 4 GB RAM, and 20 GB of free disk space are recommended. Can I download Visual Basic for C programming online? While Visual Basic and C are different programming languages, you can download Visual Studio, which supports both languages. Visual Basic is included in the Visual Studio IDE for C and Visual Basic development. Are there any free alternatives to download Visual Basic for C development? Yes, besides Visual Studio Community Edition, you can explore other free IDEs like MonoDevelop or SharpDevelop that support Visual Basic programming. How do I install Visual Basic after downloading Visual Studio? After downloading Visual Studio from the official website, run the installer, select the '.NET desktop development' workload, and follow the on-screen instructions to install Visual Basic support.

Related keywords: Visual Basic download, VB download, Visual Basic IDE, Visual Basic compiler, VB runtime download, Visual Basic projects, VB programming, Visual Basic setup, VB.net download, Visual Basic tutorials

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