DJANGO DJANGO WEB FRAMEWORK FOR PYTHON ENGLISH ED Full Version

Introduction to Django: The Web Framework for Python Developers

django django web framework for python english ed is a phrase that underscores the significance of Django as a powerful and versatile web development framework designed specifically for Python developers. Django?s popularity arises from its ability to facilitate rapid development, its clean and pragmatic design, and its extensive feature set that simplifies the process of building robust, scalable, and secure web applications. Since its inception in 2005, Django has evolved into one of the most trusted frameworks in the web development community, powering everything from simple websites to complex enterprise-level applications.

What is Django?

Overview of Django

At its core, Django is a high-level Python web framework that encourages rapid development and clean, pragmatic design. It follows the Model-View-Controller (MVC) architectural pattern, though it refers to it as Model-View-Template (MVT). Django provides developers with a suite of tools and libraries to handle common web development tasks, reducing the amount of boilerplate code needed and enabling a focus on unique application logic.

Key Features of Django

- **Object-Relational Mapper (ORM):** Simplifies database interactions by allowing developers to write Python code instead of SQL.
- **Automatic Admin Interface:** Generates a fully functional administrative interface for managing application data.
- **Security:** Offers built-in protections against common security threats such as SQL injection, cross-site scripting (XSS), cross-site request forgery (CSRF), and clickjacking.
- **Scalability:** Designed to handle high traffic loads and large datasets efficiently.
- **Versatile Templating System:** Provides a flexible templating engine for rendering dynamic content.
- **Extensible and Modular:** Supports numerous third-party packages and allows developers to create custom apps.

Why Use Django for Web Development?

Advantages of Django

- **Rapid Development:** Django?s built-in features and conventions allow for quick project setup and development cycles.
- **Security:** Provides a secure foundation by default, reducing the risk of vulnerabilities.
- **Community Support:** Boasts a large, active community that contributes plugins, documentation, and support.
- **Reusability:** Promotes writing reusable, pluggable code through its app structure.
- **Comprehensive Documentation:** Offers thorough guides, tutorials, and reference materials that ease the learning curve.

Key Components of Django Framework

1. Models

Models are the data access layer in Django. They define the structure of stored data, including fields and behaviors. Django?s ORM translates model definitions into database schemas, enabling developers to manipulate data using Python code seamlessly.

2. Views

Views contain the business logic of the application. They process user requests, interact with models, and pass data to templates for rendering. Django views can be function-based or class-based, providing flexibility based on project needs.

3. Templates

The templating system is responsible for rendering HTML pages with dynamic content. Django templates support variables, tags, and filters to create rich, customizable web pages.

4. URLs

URL patterns map web addresses to corresponding views. Django?s URL dispatcher allows developers to define clean, readable URL schemes for their applications.

5. Forms

Django simplifies form handling, validation, and processing. Its forms framework helps create secure

forms and handle user input efficiently.

Building a Simple Web Application with Django

Step 1: Setting Up the Environment

- Install Python and pip, the package installer.
- Create a virtual environment to isolate project dependencies.
- Install Django using pip: pip install django.

Step 2: Creating a Django Project

django-admin startproject myproject
cd myproject

Step 3: Creating an App

python manage.py startapp myapp

Step 4: Defining a Model

myapp/models.py

```
from django.db import models

class Product(models.Model):

name = models.CharField(max_length=100)

description = models.TextField()

price = models.DecimalField(max_digits=8, decimal_places=2)

def __str__(self):

return self.name
```

Step 5: Registering the Model with Admin

myapp/admin.py

```
from django.contrib import admin

from .models import Product

admin.site.register(Product)
```

Step 6: Creating Views and Templates

- Define views to fetch data from models.
- Create HTML templates to display data.

Step 7: Setting Up URLs

myapp/urls.py

```
from django.urls import path

from . import views

urlpatterns = [

path('', views.product_list, name='product_list'),

]
```

Step 8: Running the Development Server

```
python manage.py runserver
```

Advanced Features and Best Practices

Using Django?s Class-Based Views (CBVs)

CBVs provide a more structured approach to handling common web development tasks like displaying lists, detail views, forms, and more. They promote code reusability and clarity.

Implementing RESTful APIs with Django REST Framework

The Django REST Framework (DRF) is a powerful toolkit for building Web APIs. It extends Django?s capabilities to support API development with features like serialization, authentication, and viewsets.

Employing Middleware and Signal System

- **Middleware:** Processes requests and responses globally, useful for tasks like authentication, caching, and session management.
- **Signals:** Enable decoupled applications to respond to events, such as saving or deleting models.

Optimizing Performance and Scalability

- Use caching mechanisms like Redis or Memcached.
- Optimize database queries with select_related and prefetch_related.
- Implement load balancing and database replication for large-scale applications.

Deployment and Maintenance of Django Applications

Deployment Options

- Traditional hosting with WSGI servers like Gunicorn or uWSGI.
- Platform-as-a-Service (PaaS) providers such as Heroku, PythonAnywhere, or AWS Elastic Beanstalk.
- Containerization using Docker for portable and consistent deployments.

Security Considerations

- Ensure DEBUG mode is turned off in production.
- Configure allowed hosts properly.
- Use HTTPS and SSL certificates.
- Keep dependencies up-to-date.

Maintenance and Updates

- Regularly review and update dependencies.
- Implement automated testing for continuous integration.
- Monitor server performance and error logs.
- Plan for scaling as user base grows.

Community and Resources for Django Developers

Official Documentation

The Django project?s official documentation is comprehensive and regularly updated, covering everything from installation to advanced topics.

Community Forums and Support

- Django Forum
- Stack Overflow
- Reddit r/django
- Discord and Slack channels

Learning Resources

- Books like ?Django for Beginners? and ?Two Scoops of Django?
- Online tutorials and video courses on platforms like Coursera, Udemy, and YouTube
- Open-source projects on GitHub for practical learning

Conclusion

In summary, **django django web framework for python english ed** encapsulates a powerful, flexible, and secure platform for web development using Python. Its rich feature set,

Django Django Web Framework for Python English Ed is a powerful, high-level web framework that has gained widespread popularity among developers seeking to build robust, scalable, and secure web applications using Python. Its clean design, comprehensive feature set, and emphasis on rapid development make it a top choice for both beginners and experienced programmers alike. This article provides an in-depth review of Django, exploring its core features, advantages, disadvantages, and how it stands out in the crowded landscape of web development frameworks.

Introduction to Django

Django was created in 2003 by a team at the Lawrence Journal-World newspaper in Kansas and was released as an open-source project in 2005. Its main goal is to ease the creation of complex, database-driven websites. Built on the Python programming language, Django emphasizes reusability, rapid development, and pragmatic design principles. The framework follows the Model-View-Controller (MVC) architectural pattern, although it refers to its components as Model-View-Template (MVT).

Django?s philosophy revolves around "batteries included," meaning it comes with a wide array of built-in features that developers can leverage without relying heavily on third-party libraries. This makes it particularly appealing for projects that need to be developed quickly while maintaining high standards of security and scalability.

Core Features of Django

1. Object-Relational Mapper (ORM)

Django?s ORM allows developers to interact with the database using Python code instead of SQL. It supports multiple database backends such as PostgreSQL, MySQL, SQLite, and Oracle. The ORM simplifies database schema migrations and makes data manipulation straightforward.

Features:

- Declarative syntax for defining models
- Automatic database migrations
- Support for complex queries and relationships
- QuerySet API for filtering and aggregating data

2. Admin Interface

One of Django?s standout features is its automatic admin interface, which provides a ready-to-use backend for managing application data. This interface is highly customizable and saves significant development time for content management systems.

Features:

- Auto-generated admin pages based on models
- Customizable forms and views
- Role-based access control

3. URL Routing

Django?s URL dispatcher maps URLs to views seamlessly, supporting both simple and complex URL patterns. It allows for clean, readable URLs and flexible routing configurations.

Features:

- Regex-based URL patterns
- Named URLs for reverse URL resolution
- Support for internationalization

4. Templating System

Django includes a powerful templating engine that separates presentation from business logic. Templates are written in HTML with Django Template Language (DTL), allowing for dynamic content

rendering.

Features:

- Template inheritance
- Custom template tags and filters
- Context processors for injecting variables

5. Security Features

Security is a core focus of Django, which provides built-in protections against common web vulnerabilities.

Features:

- Cross-site scripting (XSS) prevention
- Cross-site request forgery (CSRF) protection
- SQL injection protection
- User authentication and authorization

6. Middleware Support

Middleware components process requests and responses globally, allowing developers to add functionalities like session management, caching, or custom processing.

7. Caching and Sessions

Django supports multiple caching strategies and session management, facilitating performance optimization and user state management.

Advantages of Using Django

1. Rapid Development

Django?s extensive built-in features reduce the amount of boilerplate code developers need to write, enabling faster project iterations.

2. Security

Thanks to its comprehensive security framework, Django helps developers prevent common web vulnerabilities effortlessly.

3. Scalability

Django is suitable for small projects and large-scale applications alike. Its modular design and support for caching and load balancing make scaling easier.

4. Rich Ecosystem and Community

A large, active community supports Django, offering a wealth of third-party packages, tutorials, and forums for troubleshooting.

5. ORM and Database Flexibility

Supports multiple databases and complex queries, making data management versatile.

6. Reusability and DRY Principle

Encourages code reuse and adheres to the "Don't Repeat Yourself" principle, improving maintainability.

Challenges and Limitations of Django

1. Monolithic Structure

While Django?s all-in-one approach is advantageous for rapid development, it can be restrictive for projects requiring a more modular or microservices-oriented architecture.

2. Learning Curve for Beginners

Although Python is beginner-friendly, mastering Django?s full feature set, especially its ORM and middleware, may take time.

3. Performance Overhead

Django?s abstraction layers and built-in features can introduce some performance overhead, which may be critical in high-performance use cases.

4. Less Flexibility in ORM

While powerful, Django ORM may not support all complex SQL queries out of the box, leading to the need for raw SQL in some scenarios.

Use Cases and Applications

Django is versatile and suitable for a wide range of applications, including:

- Content Management Systems (CMS)
- Social media platforms
- E-commerce websites
- Scientific computing platforms
- RESTful APIs and backend services
- Data analytics dashboards

Its scalability and security features make it particularly popular among startups, tech giants, and government agencies.

Comparative Analysis with Other Frameworks

While Django holds a prominent position, it?s essential to understand how it compares with other frameworks:

- Flask: Flask is a micro-framework giving developers more flexibility but requiring additional setup for features Django provides out-of-the-box.
- Ruby on Rails: Both frameworks follow similar philosophies, but Django?s Python base often appeals to data science and AI communities.
- Express.js: As a Node.js framework, Express offers non-blocking I/O and JavaScript support, contrasting with Django?s synchronous nature.

Conclusion

Django Django Web Framework for Python English Ed stands out as a comprehensive, secure, and scalable framework that simplifies the process of building complex web applications. Its rich feature set, combined with the simplicity and readability of Python, makes it an excellent choice for developers aiming for rapid development without sacrificing security or performance. While it has some limitations, especially regarding flexibility in certain advanced use cases, its extensive ecosystem and supportive community make it a reliable framework for a wide array of projects.

For organizations and individual developers looking for a robust foundation for web development,

Django remains a top-tier framework worth investing in. Its balance of power and simplicity ensures that both small projects and large-scale enterprise applications can benefit from its capabilities, making it a cornerstone in the modern web development landscape.

QuestionAnswer What is Django and why is it popular for web development? Django is a high-level Python web framework that encourages rapid development and clean, pragmatic design. It is popular because of its built-in features, security, scalability, and ease of use for building robust web applications. How do I install Django and set up a new project? You can install Django using pip with the command 'pip install django'. To create a new project, run 'django-admin startproject projectname' in your terminal, then navigate into the project directory to begin development. What are Django models and how do they work? Django models are Python classes that define the structure of your database tables. They allow you to interact with the database using Python code, making data management straightforward through Object-Relational Mapping (ORM). How does Django handle URL routing? Django uses a URL dispatcher where you define URL patterns in a urls.py file, mapping URLs to view functions or classes that handle HTTP requests and generate responses. What are Django views and templates? Django views are Python functions or classes that process requests and return responses. Templates are HTML files with placeholders that Django fills with dynamic data, enabling the creation of dynamic web pages. How do I implement user authentication in Django? Django provides a built-in authentication system that includes user login, logout, registration, and permission management. You can utilize the 'django.contrib.auth' app and customize it as needed for your project. What are Django forms and how are they used? Django forms facilitate data collection and validation from users. They help generate HTML form elements, validate user input, and process form submissions securely. How can I deploy a Django application to production? Deployment involves configuring your server environment, setting up a web server like Nginx or Apache, using WSGI servers such as Gunicorn or uWSGI, and setting environment variables. Django also provides security best practices for production. What are some popular Django packages and extensions? Popular Django packages include Django REST Framework for APIs, Django Allauth for authentication, Django Crispy Forms for form handling, and Django Debug Toolbar for debugging during development. How does Django support REST API development? Django supports REST API development through the Django REST Framework, which simplifies building Web APIs with features like serialization, viewsets, routers, and authentication mechanisms.

Related keywords: django, python web framework, django development, web development, python, django tutorials, django ed, python programming, django tools, web application

AN INTRODUCTION TO ENGLISH LANGUAGE

An Introduction to English Language

The English language is one of the most widely spoken and influential languages in the world today. From global business and international diplomacy to entertainment and technology, English serves as a vital communication tool across countless domains. Understanding the roots, development, and characteristics of the English language is essential for learners, educators, linguists, and anyone interested in global communication. This comprehensive guide aims to provide an insightful introduction to the English language, exploring its history, structure, global significance, and future trends.

Historical Background of the English Language

The Origins of English

English is a Germanic language that originated in early medieval England. Its roots can be traced back to the Anglo-Saxon tribes?Angles, Saxons, and Jutes?that migrated to the British Isles around the 5th century AD. The language spoken by these tribes formed the basis of Old English.

The Evolution Through Ages

The history of English is marked by several distinct periods:

- **Old English (c. 450?1150 AD):** Characterized by Germanic roots, Old English was heavily influenced by Norse invaders and Latin church influence.
- **Middle English (c. 1150?1500 AD):** Marked by Norman conquest in 1066, which introduced Norman French vocabulary and grammar influences.
- **Early Modern English (c. 1500?1700 AD):** The Renaissance brought a revival of classical learning, expanding vocabulary and standardizing spelling and grammar.
- **Modern English (1700 AD to present):** The language continued to evolve with colonial expansion, technological advances, and globalization, leading to the diverse forms of English spoken today.

The Role of Literary and Cultural Influences

English literature, from Geoffrey Chaucer?s Canterbury Tales to William Shakespeare?s plays and modern authors like J.K. Rowling, has significantly shaped the language?s development. Cultural exchanges through colonization, trade, and diplomacy have also contributed to the vocabulary and idiomatic expressions in English.

The Structure and Features of the English Language

Phonology and Pronunciation

English phonology includes a wide range of vowel and consonant sounds. The pronunciation varies significantly across different regions and accents, which adds to the language's richness but also presents challenges for learners.

Vocabulary and Lexicon

English boasts one of the largest vocabularies among languages, with estimates ranging from 150,000 to over a million words, considering technical and scientific terms. This extensive lexicon is a result of:

- Borrowings from Latin, French, Greek, and other languages
- Coining of new terms during technological and scientific advancements
- Slang and colloquialisms evolving over time

Grammar and Syntax

English grammar is characterized by:

- Relatively simple verb conjugation compared to other languages
- Use of auxiliary verbs for tense and aspect (e.g., be, have, do)
- Flexible word order, with Subject-Verb-Object being standard
- Extensive use of prepositions and articles

Writing System

English uses the Latin alphabet, consisting of 26 letters. Its orthography (spelling system) can be complex due to historical spelling conventions, silent letters, and irregular pronunciation rules.

The Global Significance of the English Language

English as a Global Lingua Franca

Today, English is regarded as the world?s primary lingua franca?an auxiliary language used for international communication. It is the official or working language in over 50 countries and widely used in international organizations like the United Nations and the International Olympic Committee.

English in Business and Commerce

English dominates international business, finance, and trade. Many multinational corporations operate primarily in English, and proficiency is often a prerequisite for global career opportunities.

English in Science, Technology, and Education

A significant portion of scientific research, technological development, and academic publications are in English. Universities worldwide offer courses in English to attract international students.

English in Media and Entertainment

English-language media, including movies, music, television, and literature, have a global reach. Hollywood films, English pop music, and online streaming platforms have popularized the language worldwide.

English on the Internet and Social Media

English is the dominant language on the internet, accounting for a large percentage of online content. Social media platforms facilitate global interaction primarily in English, further fostering its universal status.

Learning and Teaching the English Language

Why Learn English?

Learning English offers numerous benefits:

- Access to a vast amount of information and educational resources
- Enhanced employability and career prospects
- Ability to communicate with people worldwide
- Participation in global culture and entertainment

Methods of Learning English

Effective approaches include:

- Classroom instruction with trained teachers
- Online courses and language learning apps
- Immersive experiences through travel and cultural exchange
- Practice with native speakers or language exchange partners

Challenges in Learning English

Some common difficulties faced by learners are:

- Complex spelling and pronunciation rules
- Irregular verb forms
- Idiomatic expressions and phrasal verbs
- Regional accents and dialects

The Future of the English Language

Emerging Trends

English continues to evolve with technological innovations:

- Increased influence of digital communication and social media
- Emergence of new slang and internet vernacular
- Globalization leading to more diverse accents and dialects
- Integration of loanwords from other languages due to cultural exchange

Potential Challenges

As the language grows, there are concerns about:

- Language homogenization potentially overshadowing regional dialects
- Loss of linguistic diversity
- Difficulty in maintaining standardization across different regions

Conclusion

The English language remains a dynamic and influential means of communication. Its rich history, extensive vocabulary, and widespread use make it an invaluable global asset. Whether for personal growth, academic pursuits, or professional development, learning English opens doors to countless opportunities. As the world continues to embrace globalization and technological innovation, the role of English is poised to expand further, shaping the future of international communication.

Keywords for SEO Optimization:

- Introduction to English language
- History of English
- English language structure
- Global importance of English
- Learn English online
- English language development
- English as a lingua franca
- Benefits of learning English
- Future of the English language
- English language learning tips

Introduction to the English Language: A Comprehensive Overview

The English language, often regarded as the global lingua franca, has a rich history, complex structure, and widespread influence that permeates nearly every corner of the world. As one of the most widely spoken and studied languages today, understanding its fundamentals offers invaluable insights into its role in communication, culture, and international relations. This detailed exploration delves into the origins, evolution, grammatical features, vocabulary, phonetics, and the significance of English in contemporary society.

Historical Background of the English Language

Origins and Early Development

The roots of English trace back over 1,400 years to the Germanic tribes?namely the Angles, Saxons, and Jutes?who migrated to the British Isles around the 5th century AD. These tribes brought with them their languages, which gradually coalesced into what we now call Old English.

Key points about early English:

- Old English (circa 450?1150 AD): Characterized by a complex system of inflections, a vocabulary heavily influenced by Latin and Norse, and a rich oral tradition including epic poetry like Beowulf.
- Influence of Latin and Norse: Latin arrived through Christian missionaries, while Norse influence increased due to Viking invasions, shaping vocabulary and syntax.

Middle English and the Norman Conquest

The Norman Conquest of 1066 marked a pivotal turning point:

- Norman French influence: The ruling class spoke Norman French, which heavily influenced the vocabulary, especially in law, governance, art, and cuisine.
- Language features: Middle English (circa 1150?1500) saw simplification of inflectional endings and an expansion of vocabulary.

Early Modern English and the Renaissance

From the late 15th to the early 17th century:

- The Renaissance: Brought a revival of classical learning and an influx of Latin and Greek words.
- The printing press: Invented by Johannes Gutenberg, it standardized spelling and grammar, making literature more accessible.
- Notable figures: William Shakespeare and the King James Bible significantly shaped the language.

Modern English and Global Spread

Since the 17th century:

- Colonial expansion: British colonization spread English worldwide.
- Industrial Revolution: Facilitated international trade and communication.
- Contemporary English: Continues to evolve with influences from numerous languages and cultures, especially in the digital age.

Structural Aspects of the English Language

Phonetics and Pronunciation

English phonetics is known for its complexity and variability:

- Consonant and vowel sounds: The language features approximately 24 consonant sounds and around 20 vowel sounds, with many variations.
- Spelling and pronunciation discrepancies: Due to historical influences, English spelling often does not align directly with pronunciation (e.g., though vs. through).

Grammar and Syntax

English grammar, while relatively straightforward compared to some languages, has distinctive

features:

- Parts of speech: Nouns, verbs, adjectives, adverbs, pronouns, prepositions, conjunctions, and interjections.
- Sentence structure: Typically follows a Subject-Verb-Object (SVO) order.
- Tenses: Present, past, future, along with perfect and progressive aspects.
- Agreement: Subject-verb agreement in number and person.
- Modifiers: Use of adjectives and adverbs to add detail.

Vocabulary and Lexicon

English boasts an extensive vocabulary, estimated at over a million words:

- Loanwords: Borrowed extensively from Latin, French, Greek, German, and many other languages.
- Synonyms and antonyms: Rich variety of words with nuanced differences, offering precision and expressiveness.
- Neologisms: Continual creation of new words, especially in technology and popular culture.

Unique Features of the English Language

Orthography and Spelling

English spelling can be irregular due to its diverse origins:

- Historical influences: Words retain spellings from older forms or borrowed languages.
- Examples: Knight, psychology, colonel.
- Spelling reforms: There have been proposals but no widespread standardization.

Idioms and Phrasal Verbs

Idiomatic expressions and phrasal verbs are integral:

- Idioms: Phrases whose meanings are not deducible from individual words (e.g., kick the bucket).
- Phrasal verbs: Verb + particle combinations with idiomatic meanings (e.g., look up, give in).

Varieties and Dialects

English manifests in numerous dialects:

- British English: Variations like Cockney, Received Pronunciation.
- American English: Distinct vocabulary and pronunciation.
- Other varieties: Australian, Canadian, Indian English, each with unique features.

The Role of English in the Modern World

Global Lingua Franca

English is the primary language of:

- International diplomacy
- Business and commerce
- Science and technology
- Entertainment and media

English in Education and Research

- Most scientific journals publish in English.
- Universities worldwide offer courses in English.
- English proficiency is often a requirement for international careers.

The Digital Age and English

- Dominance in internet content, social media, and digital communication.
- Emergence of digital slang, memes, and abbreviations, influencing language evolution.

Cultural Impact

- English-language music, films, and literature shape global pop culture.
- Cultural exchange and understanding facilitated through shared language.

Learning and Teaching English

Methods and Approaches

- Traditional grammar-translation
- Communicative language teaching
- Immersive and bilingual approaches
- Use of technology and online platforms

Challenges for Learners

- Irregular spelling and pronunciation
- Idiomatic expressions
- Extensive vocabulary
- Variations in dialects and accents

Resources and Tools

- Language apps (Duolingo, Babbel)
- Online courses and tutorials
- Media and literature in English
- Language exchange programs

Conclusion

The English language remains a dynamic, influential, and complex means of communication. Its history reflects centuries of cultural exchange and adaptation, shaping a language that is both diverse and adaptable. For learners, educators, and global citizens alike, understanding English?s structure, history, and role in society unlocks numerous opportunities for connection, learning, and cultural appreciation. As it continues to evolve in the digital age, English?s significance is poised to grow, cementing its status as a cornerstone of international communication.

In summary, mastering the English language provides access to a vast repository of knowledge, culture, and opportunities. Its rich history and widespread use make it a fascinating subject of study and an essential skill in today?s interconnected world. Whether for academic pursuits, professional advancement, or cultural engagement, an introduction to English opens the door to endless possibilities.

QuestionAnswer What are the key features that define the English language? English is a West Germanic language characterized by a rich vocabulary, extensive use of loanwords, and a flexible

grammar system. It is known for its adaptability, widespread global use, and its role as a lingua franca in international communication. How did the English language develop over time? English evolved from the Anglo-Saxon languages brought to Britain by Germanic tribes around the 5th century. It was later influenced by Norman French, Latin, and other languages, leading to the Modern English we use today. This development spans Old English, Middle English, and Modern English periods. Why is English considered a global language? English is considered a global language because it is the primary or secondary language in many countries, used extensively in international business, science, technology, entertainment, and diplomacy, making it a key tool for global communication. What are the main components of learning the English language? Learning English involves mastering four main components: reading, writing, listening, and speaking. Additionally, understanding grammar, vocabulary, pronunciation, and cultural context are essential for effective communication. How has the internet influenced the spread and evolution of the English language? The internet has accelerated the global spread of English, introduced new slang, abbreviations, and digital communication styles, and facilitated intercultural exchange, thereby continuously shaping and evolving the language in real-time.

Related keywords: English language, language learning, linguistics, grammar, vocabulary, pronunciation, syntax, phonetics, language skills, language history

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