DIGITAL GAMES FOR IMPROVING ENGLISH PRONUNCIATION

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Abstract: Pronunciation is an important part of communicative competence because it influences how clearly learners can express and understand spoken messages, yet it often receives limited attention in EFL classrooms. Digital games offer an alternative way to organise pronunciation practice by combining sound-focused activities with interaction, feedback, and repetition. This article examines how digital games can support English pronunciation development and under what conditions they are educationally useful. The study follows a qualitative, literature-based design and draws on research into computer-assisted pronunciation training (CAPT), mobile-assisted language learning, serious games, and game-based learning. The analysis suggests that game-based activities can create more frequent and less stressful opportunities to notice, practise, and review English sounds, especially when tasks target specific pronunciation features, include models and corrective feedback, and progress from perception to production. However, games cannot automatically guarantee intelligible speech or transfer to spontaneous communication, since their value depends on instructional design, teacher guidance, and suitable assessment. The article proposes a practical framework for integrating digital pronunciation games into EFL lessons and highlights areas for further research.

INTRODUCTION. Pronunciation is a central component of spoken language and an essential condition for successful communication. Learners may know many English words and grammatical structures, yet communication can still break down when listeners cannot recognise the words they produce. The main goal of pronunciation teaching is not to sound like a native speaker, but to develop speech that is clear, intelligible, and understandable in different communicative situations.

In many EFL contexts, however, pronunciation receives less classroom time than other language areas because of limited time, large classes, and insufficient materials. Learners may also feel uncomfortable repeating sounds in front of classmates, so practice often becomes brief, repetitive, and teacher-centred. Learners also need opportunities to listen carefully, compare sounds, receive feedback, and use pronunciation in meaningful speech.

Digital technology offers new possibilities here. Computer-assisted pronunciation training (CAPT) includes tools that provide models, recording facilities, visual information, and feedback. Recent reviews report generally positive outcomes, although the quality and focus of activities vary considerably [1; 2], and mobile applications allow learners to practise beyond the classroom [3].

Digital games are particularly relevant because they combine learning tasks with goals, rules, challenges, feedback, and progress. In a pronunciation game, learners may identify a sound, choose a word with a particular stress pattern, or record a sentence. Game elements alone do not produce learning, however: the activity must direct attention to pronunciation, and game tasks should be designed around learners' actual difficulties [4].

This article explores the pedagogical potential of digital games for improving English pronunciation. It addresses three questions: (1) What pronunciation skills can digital games support? (2) Which game features make pronunciation practice effective? (3) What limitations should teachers consider when integrating digital games into EFL instruction? It aims to provide a practical, research-informed framework for pronunciation teaching.

METHODS. 2.1. Research Design.

The article adopts a qualitative, literature-based research design. It does not report a new classroom experiment or collect original learner data. Instead, it examines published research and theoretical discussions concerning digital pronunciation instruction, computer-assisted pronunciation training, mobile learning, and serious games. This approach is suitable because the purpose is to synthesise existing knowledge, identify recurring pedagogical patterns, and develop an instructional framework rather than measure the effect of one particular application.

2.2. Sources and Selection.

The review draws on peer-reviewed journal articles and research publications related to pronunciation learning through technology, with particular attention to systematic reviews and empirical studies on CAPT, mobile-assisted pronunciation instruction, digital pronunciation applications, and game-based phonology learning. The literature was considered relevant when it addressed at least one of the following areas: pronunciation practice, speech perception, oral production, digital feedback, learner engagement, or the design of game-based language activities.

2.3. Analytical Procedure.

The sources were examined through thematic analysis and synthesis. First, recurring learning activities and technology features were identified, including listening discrimination, repetition, recording, visual support, immediate feedback, scoring, and progression. Second, these features were grouped according to the pronunciation skills they may support. Third, the advantages and limitations reported across the literature were compared. Finally, the themes were organised into a teaching framework that moves from sound perception to controlled production and communicative use. This process avoids claiming that the article has experimentally confirmed the effectiveness of a specific game.

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2.4. Scope and Limitations of the Method.

The analysis is not a fully systematic review with a registered protocol, exhaustive database search, or statistical meta-analysis. It is a focused narrative synthesis of relevant research and should be understood as an interpretation of existing evidence, not a complete account of every publication on the topic. Digital tools also differ in speech-recognition quality, feedback, accessibility, and pedagogical design, so findings about one application cannot automatically be applied to every game or platform.

RESULTS. 3.1. Digital Games and Sound Recognition.

A major theme in the literature is the importance of helping learners notice differences between English sounds. Before producing a sound accurately, learners often need to recognise it in spoken input. Digital games can support this stage through listening quizzes, minimal-pair challenges, sound sorting, and audio-based matching tasks. For example, learners may hear two words and decide whether they contain the same vowel, identify the word that matches a recording, or select the correct sound symbol.

These activities make listening practice active rather than passive: learners make a decision and receive information about whether their choice is correct. Repeated exposure to carefully selected contrasts may help learners become more aware of sound differences that are difficult for them. However, recognition tasks should use clear audio models and should not rely only on written options, because the aim is to develop listening to pronunciation rather than memorising spelling.

3.2. Practice of Individual Sounds.

Digital games can also focus on segmental pronunciation, including vowels and consonants. Activities may ask learners to distinguish similar sounds, match a phoneme with example words, or repeat a target word after listening to a model. Minimal-pair games are especially useful when two words differ in one sound and the difference changes meaning, as they help learners connect accurate sound production with successful communication.

The reviewed CAPT literature shows that segmental features have received substantial attention, while stress, intonation, and rhythm are less frequently addressed [1]. A balanced pronunciation programme should therefore not remain limited to isolated phonemes: learners also need practice producing sounds in words, phrases, and connected speech.

3.3. Stress, Rhythm, and Intonation.

Pronunciation involves more than consonants and vowels. Word stress helps listeners identify the structure of words, sentence stress can highlight important information, and intonation contributes to meaning, attitude, and the organisation of spoken messages. Digital games can introduce these features through stress-identification tasks, sentence comparison, rhythm imitation, and short dialogue challenges.

For instance, learners may choose the stressed syllable of a word, compare two recordings with different sentence stress, or record a question using an appropriate intonation pattern. Visual elements such as stress marks, pitch lines, or highlighted syllables can support attention, provided that they are clearly explained. These features should be connected to real communication, since learners need to understand how stress and intonation influence meaning rather than merely memorise patterns.

3.4. Feedback and Repeated Practice.

Feedback is one of the most valuable features of digital pronunciation learning. Games can provide immediate responses after a learner selects an answer, completes a recording, or repeats a phrase. Feedback may be simple, such as showing the correct answer, or more detailed, such as indicating which sound needs further practice. Some CAPT systems also use speech recognition to compare learner speech with a model and offer automated feedback. Research reviews identify feedback and repeated practice as important benefits of computer-supported pronunciation instruction [1; 2; 5].

Nevertheless, automated feedback should be treated carefully. Speech recognition systems may misunderstand learners because of background noise, microphone quality, speech rate, or accent differences, and a score may not explain why a pronunciation is unclear. Digital feedback is therefore most useful when learners can listen again, compare their recording with a model, and receive additional guidance from a teacher.

3.5. Motivation, Confidence, and Participation.

Game elements such as points, levels, badges, time limits, and progress indicators can encourage learners to participate and practise more frequently. A game may also reduce the pressure of speaking in front of the whole class because learners can practise individually or in small groups. Pronunciation-focused serious games have been designed to combine sound learning with interactive challenges and multimedia activities [4; 6].

However, motivation should not be measured only by excitement or competition. A learner may enjoy a game without improving pronunciation, and excessive time pressure or public ranking can increase anxiety among learners who need more time. Cooperative tasks, personal progress records, and optional replay may therefore be more supportive than competition alone. The game should reward improvement, careful listening, and effort as well as correct answers.

DISCUSSION. 4.1. From Game Activity to Pronunciation Learning.

The literature suggests that digital games are best understood as a teaching format rather than a complete pronunciation method. Their effectiveness depends on the relationship between game mechanics and learning objectives: a game that asks learners to click quickly without listening or producing speech creates activity but offers limited pronunciation practice, while a well-designed game requires them to notice a sound, make a decision, practise a response, and reflect on feedback. This is consistent with broader discussions of CAPT, which emphasise stronger links between technology and pedagogical purpose [5]. Teachers should therefore begin with a pronunciation target, such as a vowel contrast, word stress, or rising intonation, and then select or design a game

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that practises it. The technology should serve the lesson, not determine it.

4.2. A Suggested Framework for Digital Pronunciation Games.

Based on the themes identified in the literature, a five-stage framework can be proposed for classroom use. The stages are connected and may be repeated according to learners' needs.

Stage 1: Awareness and perception. Learners listen to a model and identify the target sound or feature through discrimination, audio matching, or minimal-pair tasks. The teacher checks that the contrast is understood before moving on.

Stage 2: Guided recognition. Learners connect sounds with words, syllables, stress patterns, or short phrases, for example by sorting words or identifying a stressed syllable, using enough examples to show the feature in different contexts.

Stage 3: Controlled production. Learners repeat words and phrases or record short responses, focusing on accuracy and on comparing their speech with a clear model. They should be able to replay and try again without pressure.

Stage 4: Feedback and correction. Learners receive specific, encouraging feedback from the game, the teacher, or peers, identify one or two areas for improvement, and practise them again.

Stage 5: Communicative transfer. Learners use the target feature in a short dialogue, role-play, or information-gap task. This stage is essential because accurate performance in a game does not necessarily mean learners can use the feature in spontaneous speech. The teacher assesses whether pronunciation remains understandable when attention is on meaning.

Examples of game formats include a "Sound Detective" game for listening discrimination, and a "Pronunciation Mission" that combines practice with audio support, recording, and a final speaking task. These are pedagogical designs, not claims about the results of a tested intervention.

4.3. The Role of the Teacher.

The teacher remains essential in digital pronunciation learning. The teacher selects suitable sound models and checks the accuracy of the game's content, explains the target feature, supports learners when automated feedback is confusing, and connects game practice with communicative tasks to assess whether learning transfers beyond the digital activity. A blended approach is therefore preferable to replacing classroom instruction with games: digital activities provide repetition and individual practice, while teacher-led interaction addresses errors, meaning, and communication. This may be especially useful in large classes.

4.4. Assessment and Evidence of Progress.

Assessment should include more than game scores or completed levels, which show participation or task success but not necessarily pronunciation development. A more informative approach combines listening tasks, short recordings, teacher observation, and communicative speaking activities. Learners can keep a pronunciation portfolio containing an early recording, a later recording, and a reflection on progress. Criteria may include sound accuracy, word and sentence stress, intelligibility, comprehensibility, and use of the target feature in connected speech. The literature also points to a need for more global measures of pronunciation outcomes rather than a focus on isolated sound accuracy [1].

4.5. Challenges and Limitations.

Access to devices and stable internet may differ among learners, some applications require accounts or paid features, and audio quality and classroom noise can affect listening and speech-recognition activities. Teachers may also need preparation time. Games may overemphasise speed, points, and competition, so learners focus on winning rather than listening accurately, and automated scoring may create misleading confidence if it is unreliable. Research has also often concentrated on controlled practice and individual sounds, while transfer to spontaneous communication remains an open question [1; 3]. These limitations call for careful selection, clear objectives, inclusive participation, and teacher support.

CONCLUSION. This article has examined how digital games can support English pronunciation learning through a qualitative analysis of relevant literature. The analysis shows that games can provide useful opportunities for sound recognition, controlled production, repeated practice, and immediate feedback, while also making practice more flexible and less stressful, especially when learners can replay models and work at their own pace.

However, digital games are not an automatic solution to pronunciation difficulties. Their value depends on the quality of audio models, the relevance of tasks, the accuracy of feedback, and the link between game practice and real communication. A balanced programme should address both segmental features (vowels and consonants) and suprasegmental features (stress, rhythm, and intonation), and should move learners from perception towards spontaneous speech.

The proposed five-stage framework (perception, recognition, controlled production, feedback, and communicative transfer) offers teachers a practical way to organise game-based instruction and can be adapted to different levels and classroom conditions. Future research should test specific pronunciation games in classroom studies, combine short-term and long-term assessment, and examine whether progress in games leads to more intelligible speech in real communication.

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