

## **An Analysis of the Trends and Characteristics of College Students' English Learning Strategies Based on Web Platform**

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**Keywords:** learning strategies; College English; network platform; trend characteristics

**Abstract:** According to the problem that the intelligence is not high of the soccer robot, using the mechanical theory as a guide, making some mechanical analyses and calculations on the pressure and transmutation states of chip kick mechanics, and conducting optimal design too, then making the structure of chip kick mechanics more and more rationalization. Experiments show that the new soccer robot controller features a quick response and high servo rigidity, and provide a kind of method for improving and perfecting the soccer robot control system, at the same time, filling the needs of producing.

### **1. Introduction**

English learning has always been a challenge for Chinese students. It takes more than ten years to learn English from primary school to university, and English learning is also very helpful for future work. Web-based autonomous learning has become an important way of learning for college students, and also a necessary learning ability for college students. For how to learn English well and master English knowledge, it is particularly important to explore English learning strategies. Based on the practice of college English online teaching reform, various measures are put forward to solve the problems in college English autonomous learning. To solve these problems, this paper discusses the strategies of college English autonomous learning based on network platform, aiming at improving the effect of college students' English autonomous learning on network.

### **2. College Students' Self-study Learning Strategies**

#### **2.1 College English Autonomous Learning Strategy Based on Computer Network Platform**

The development of the network has bred a lot of hypermedia technology, which can organize and compile various media information such as text, image, sound and so on, forming a rich and colorful learning environment of the supermedia. Self-regulated learning means that learners are responsible for their own learning, have clear learning objectives and active learning attitude [3]. Ability to learn independently, to manage their own learning behavior, according to their own situation to determine learning objectives, self-examination and evaluation, and gradually develop. In the autonomous learning under the network environment, the students are completely in the dominant position, with neither external pressure and requirements nor direct social supervision. The success or failure of a student's study is also determined by his or her own level of active exploration and self-monitoring. In some aspects, there are still many difficulties in college students' English learning. The current situation of students' English learning strategies also affects their future development [4].

In this study, students from 5 ordinary colleges and universities were selected as the sample. Three of the universities are key ones and two are ordinary ones. Two of them are foreign language colleges (College A and College B). The subjects of the survey are English majors. The other three are science and technology colleges (college C), economic and trade colleges (college D) and engineering colleges (college E). The subjects of the survey are non-English majors. See Table 1 for details.

Table 1 Overall information of respondents

	Key Institutions			General Colleges and Universities		Total
	College A	College B	College C	College D	College E	
	English	English	Science and Engineering	Economy and trade	Engineering	
First grade	23	28	19	17	24	111
Second grade	31	22	25	25	28	131
Third grade	28	26	30	23	14	122
Fourth grade	21	29	18	31	29	128
Total	103	105	92	96	95	491

With the development of the Internet, the information exchange between people is no longer so complicated. People can communicate through Internet interconnection and interactive information service at home. In such an environment, students can get rid of the limitation of identity, expand the scope of learning, and learn many ways among learning partners [5]. As an integral part of College English, web-based autonomous learning is complementary to English classroom teaching. Faced with the shortage of self-regulated learning equipment on the Internet, under the existing conditions, only scientific and reasonable arrangements can be made for the opening time of self-regulated learning centers. As far as possible, under the condition of limited network equipment, it can provide all-round learning conditions for students to study independently. Human-machine interaction is the evolution of learner-content interaction [6]. In this kind of man-machine interaction mode environment, students can choose learning content and exercises suitable for their own level according to their own needs, according to the pre-programmed procedures, the computer makes correct and wrong judgments, so as to achieve real independent learning.

## 2.2 Cultivation of College Students'Autonomous English Learning Ability

Since the 1980s, foreign language teaching circles have different definitions of what is a learner and autonomy. Self-regulated learning adaptation, the needs of individual cognitive differences of learners [7]. It is conducive to the development of students' personality, so that students can carry out corresponding training in listening, speaking, reading, writing and translating according to their specific conditions, thus enabling students of different levels to learn something. Online autonomous learning does not take ready-made and conclusive knowledge as the result, but allows students to learn autonomously continuously and systematically under the network environment. This plays a very important role in cultivating students' innovative ability. Although there are many English learning websites on the Internet, they provide a lot of learning materials for English learning. However, information resources for foreign language learning on the Internet are chaotic and mixed [8]. In the teaching environment of computer network platform, it is helpful to improve learners'interest in learning and can become an effective motivating factor for learning. Improve students'learning motivation, learning enthusiasm and initiative. There is a close relationship between learning motivation and learning effect in the network environment. The learners with positive attitude have better learning effect than those with negative attitude. Further in English learning to achieve good results. Lack of Internet access and limited use of autonomous learning centers and other learning facilities are important factors that restrict students'convenience in Online Autonomous learning. How to make full use of the autonomous learning center has become the main problem of using the network teaching system to assist students'autonomous learning [9]

## 3. The Choice and Development Prospect of College Students'English Learning Strategies

### 3.1 Choice of Self-learning Strategies

College English autonomous learning teaching based on computer network platform fully embodies Krashen's "input hypothesis" theory and constructivist teaching theory. The

implementation of College English teaching under the multimedia network environment is the realization of this new teaching concept. To acquire meaningful knowledge, one should create real situational activities and acquire them through interaction. This kind of environment provides students with not only a single environment, but also language environment, real context and virtual real situation, which students can use at will. We can also see that there are still some problems in online autonomous learning. Some students with poor self-control ability often browse the web pages unrelated to the classroom contents in the learning process, even indulge in online entertainment and cannot extricate themselves, unable to complete the learning tasks within the prescribed teaching hours, wasting learning time in vain. Secondly, there are some deficiencies in the relevant knowledge and skills and the use of learning resources that should be possessed before online autonomous learning, but they are shy of asking for solutions, which will also affect their learning effect.

According to the internal consistency test of the questionnaire items, the reliability coefficients of various strategic items with alpha value greater than or equal to 0.50 were obtained (see Table 2). All alpha values met the statistical requirements.

Table 2 Questionnaire Reliability

Variable name	Questionnaire title	Alpha
Management strategy	20	0.8562
Formal Exercise Strategy	6	0.7808
Functional Exercise Strategy	8	0.8052
Mother tongue use strategies	4	0.6830

The effective use of learning strategies also depends on the correct guidance of teachers, but this does not mean that students can effectively use strategies. Give full play to teachers' cooperation and guidance in the process of students' autonomous learning. Although students are the main body of learning in self-regulated online learning, the role of teachers can not be ignored. They can participate in online group discussion or related task resource sharing to stimulate students' subjective initiative in learning and the participation and cooperation of group activities. Therefore, the role of teachers is not only to provide opportunities for strategy use, but also to improve students' awareness of strategy use. Students have to spend a lot of time after class on specific training for their own weaknesses in listening, speaking, reading and writing, so it is unavoidable to formulate personalized learning plans. At the same time, a monitoring mechanism of group assessment can be established to allow group members to give a reasonable evaluation of the learning process and learning effect of the group's students in the way of signature system. Memory is indispensable in English learning. Only by truly memorizing those words and remembering the differences and similarities between them can we choose the right way to use them. It can improve students' English listening and speaking ability and other application abilities, and promote the formation of students' individualized learning methods and the development of students' autonomous learning ability. At this time, we can try to combine dull memory strategies with flexible communication strategies.

#### 4. Summary

In a word, English learning strategies are very important to college students' English learning. Before learning English, we should find a most suitable learning method and strategy. Using multimedia and network technology to reform college English teaching is a brand-new and bold attempt. For many colleges and universities, it starts from scratch. The goal of college English teaching is to cultivate college students' autonomous learning ability, improve their English application ability and make them compound talents. It is impossible for its development to be smooth sailing, and it will certainly face many difficulties and problems, but we believe that it will be the mainstream of college English teaching and learning in the future, and we are full of confidence in it. At present, the development of English in our country is not very popular, and the

ability of college students to use English is also slightly inadequate. With the habit of autonomous learning, students will feel more and more confident in learning English, which is good for their future development, and can also promote English or foreign language teaching. This study has made some explorations on the problems and Countermeasures of College English Online Autonomous Learning strategies, but there are still some shortcomings, which will be the direction of further research.

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