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The Relationship between the Ambiguity Tolerance and Incidental Vocabulary Acquisition of Advanced EFL Learners through the TED-Talk Application

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Introduction

➤ **Vocabulary** : a significant aspect of language learning

- As Wilkins (1972) succinctly notes,

“Without grammar very little can be conveyed, [but] without vocabulary nothing can be conveyed.”

In order to become proficient in a foreign language a learner has to learn thousands of words because other aspects of language ability, such as grammar, are dependent on the development of the foreign language lexicon.



How many words are there in the English language?

- The *Oxford English Dictionary*, 2nd edition (*OED2*): over **600,000** definitions.
- *Webster's Third New International Dictionary, Unabridged* : **475,000** main headwords, but the Preface estimates the true number to be much higher.
- In December 2010 a joint Harvard/Google study found the language to contain **1,022,000** words and to expand at the rate of **8,500** words per year. The findings came from a computer analysis of 5,195,769 digitised books. Others have estimated a rate of growth of **25,000** words each year.

- **Number of Words in the English Language: 1,025,109.8**
- This is the estimate by the Global Language Monitor on January 1, 2014.
- The English Language passed the Million Word threshold on [June 10, 2009 at 10:22 a.m. \(GMT\)](#). The Millionth Word was the controversial [‘Web 2.0’](#). Currently there is a new word created every 98 minutes or about 14.7 words per day.



How Many Words are Enough?

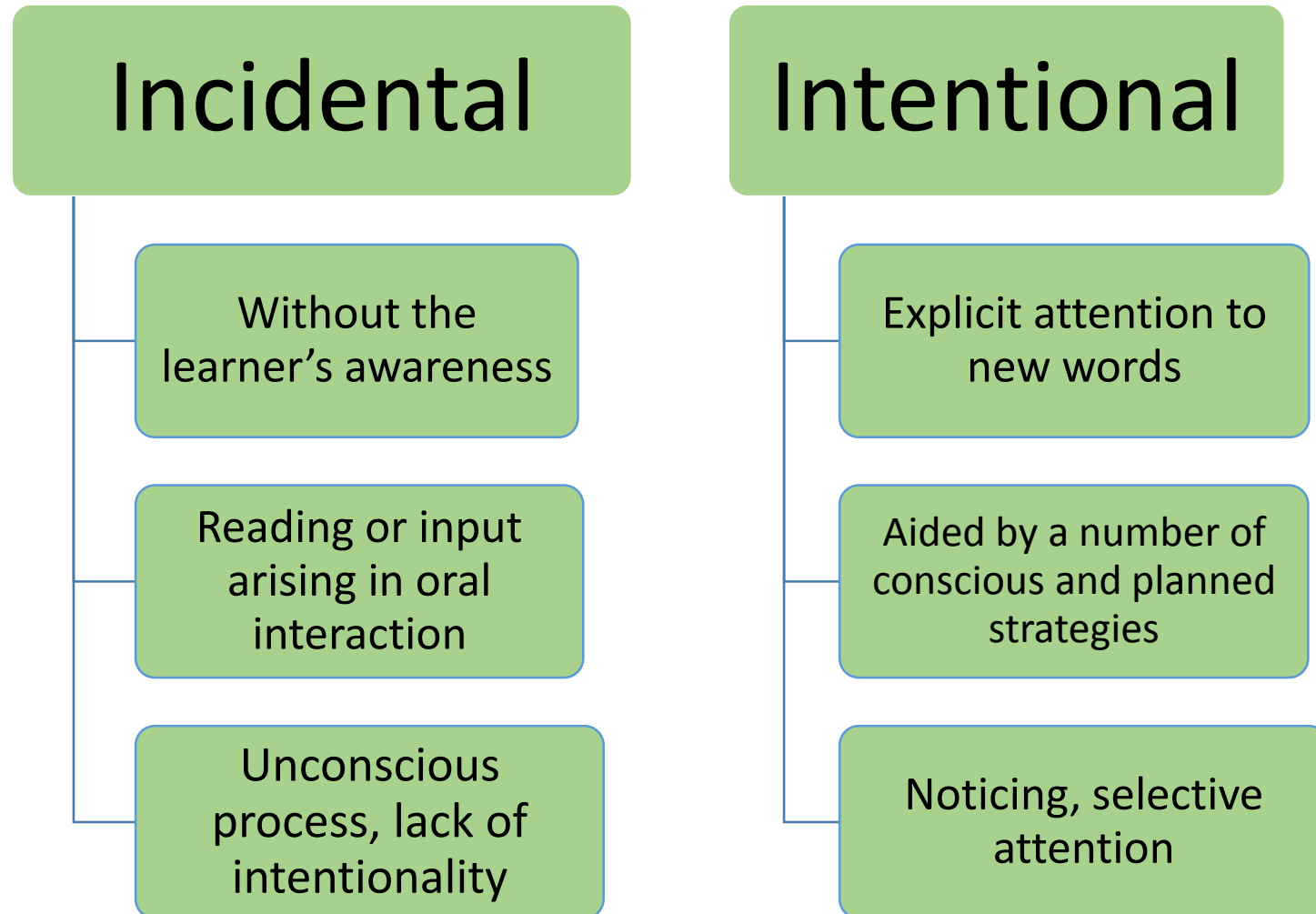
- A large vocabulary to function in English:
 - 8000–9000 word families for reading
 - 5000–7000 families for oral discourse
 - In addition, a number of **word knowledge** aspects need to be learned about each lexical item.
- These figures may seem daunting, but even so, they probably underestimate the learning challenge.



- Each word family includes Several individual word forms:
 - root (*stimulate*)
 - its inflections (*stimulated, stimulating, stimulates*)
 - regular derivations (*stimulation, stimulative*).
- Nation (2006):
 - the most frequent **1000** word families average about **six** members (types per family)
 - decreasing to about **three** members per family at the **9000** frequency level.
- A vocabulary of **6000** word families (enabling listening) entails knowing **28,015** individual word forms, while the **8000** families (enabling wide reading) entails **34,660** words (some are very low frequency items).

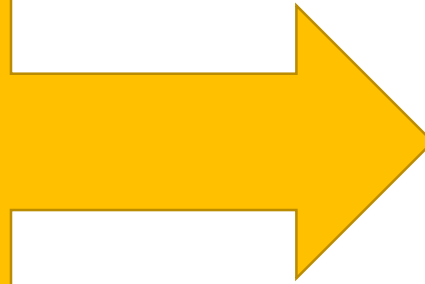


Two Contrasting Approaches to Vocabulary Acquisition



Introduction

- In FLL context there are unfamiliar lexical, grammatical, cultural, and phonological cues



- ✓ A great deal of uncertainty
- ✓ Considerable amount of ambiguity



Ambiguity



➤ **Ambiguity tolerance (AT) refers to the degree to which one is cognitively willing to tolerate ideas and propositions that run counter to their own belief system or knowledge structure .**

➤ ***Caution:***

➤ **Too much tolerance results in accepting every proposition**

➤ **Too much intolerance results in a rigid and dogmatic mind**

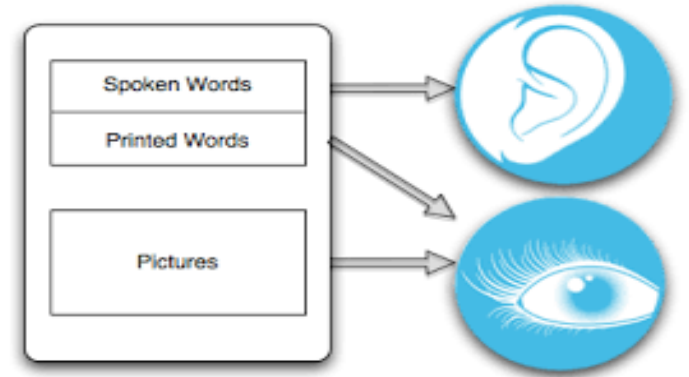




Technology, Entertainment, Design

- Run by the private nonprofit organization Founded in 1984
- Holding annual conferences under the Slogan: “Ideas Worth Spreading” since 1990
- Broad focus including many scientific, cultural, and academic topics
- Inviting innovative people to spread their novel ideas
- Addressing a wide range of topics within the research and practice of science and culture
- Transcribing and translating the talks voluntarily under the name “OTP”

Dual Coding Theory



➤ **Cognition** consists of 2 distinct mental codes:

1. **Verbal code** specialized for dealing with processing language.

2. **Nonverbal code** specialized for dealing with nonlinguistic elements.

✓ **Separate but interconnected, functioning in parallel but independently via their interconnections.**

❖ **All Knowledge, meaning, and words are represented and processed within and between these two codes.**

Cognitive Theory of Multimedia Learning (CTLM)

❖ Multimedia learning is learning from words and pictures.

❖ 3 Assumptions

1. Dual-channel:

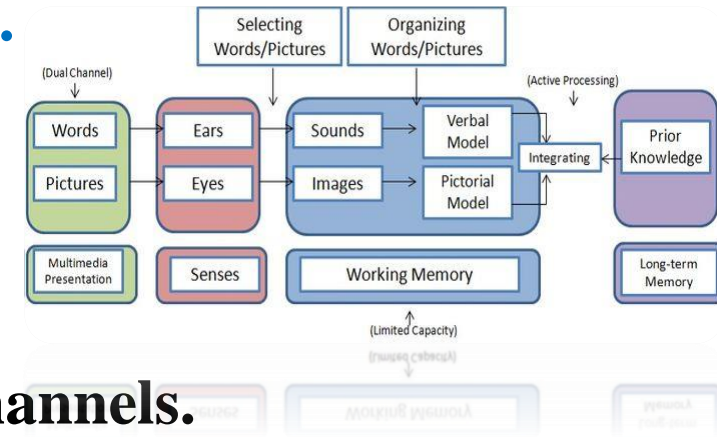
➤ Working memory has auditory and visual channels.

2. Limited capacity :

➤ Each subsystem of working memory has a limited capacity.

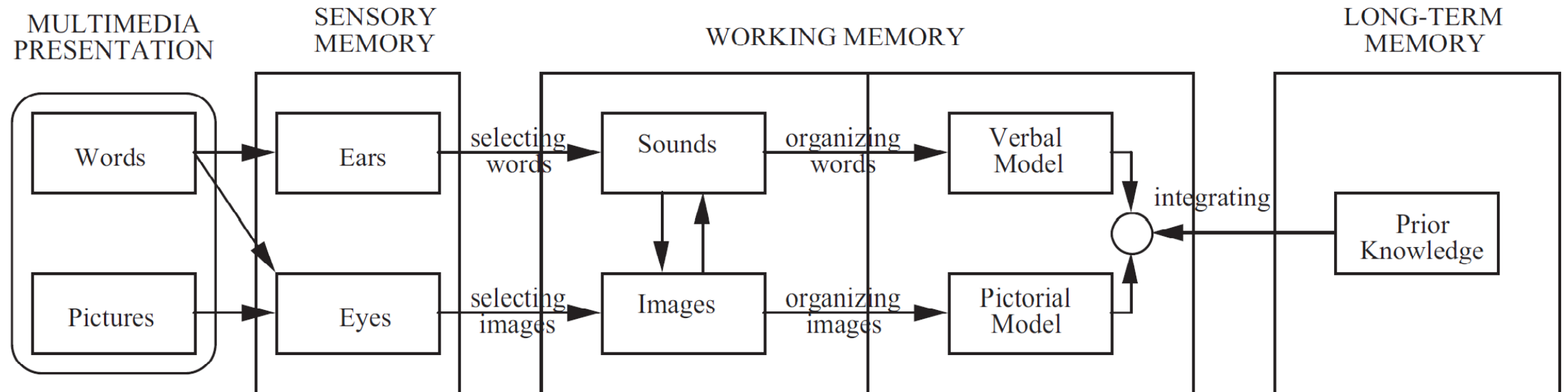
3. Active processing:

➤ Deep learning depends on learners' cognitive processing during learning.



Active processing (Meaningful Learning)

- Heading/ selecting, organizing, integrating



(Mayer, 2010a)



Reducing extraneous processing:

- I. Redundancy principle:** Presenting pictures/ spoken words rather than pictures, spoken words, and on-screen text
- II. Temporal contiguity principle:** Presenting corresponding graphics and words simultaneously
 - **Managing essential processing**
 - I. Segmenting principle:** Breaking a continuous lesson into learner-paced segments
 - II. Pre-training principle:** Providing pre-training on the names, locations, and characteristics of key concepts
 - **Fostering generative processing**
- I. Multimedia principle:** Presenting words and pictures rather than words alone

Research Questions

1. Is there any relationship Between AT and incidental vocabulary acquisition of advanced EFL learners through the TED-Talk application?

2. To what extent does the use of TED application affect L2 learners' incidental vocabulary learning?





Level: Advanced female students

Number of the target participants: 33

Age: 19-40



Instrumentations

- I. A 69-item FCE test
- II. Two AT questionnaires (SLTAS and MSTST-II)
- III. Four vocabulary pre-tests
- IV. Five MC vocabulary post-tests



Pre-Test
Check your progress!



Post-Test
Check your progress!

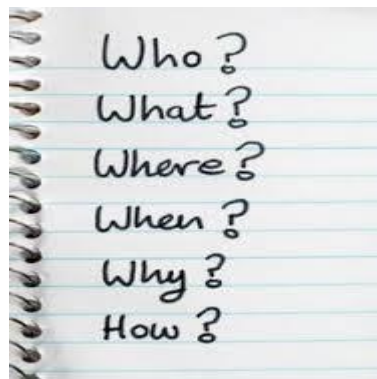


Materials

- The TED Application



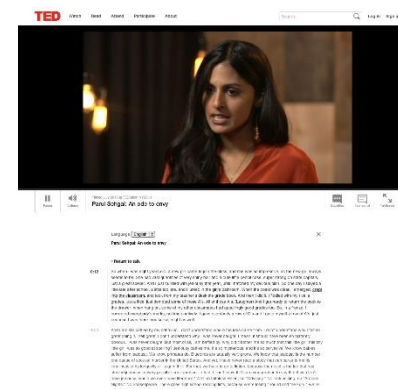
- Four Lists of Questions



Four TED-Talk Videos

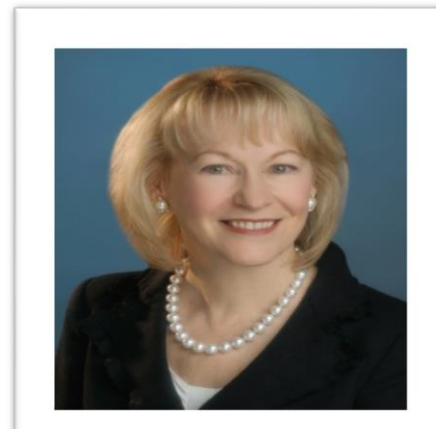


Four Video Transcripts



Videos' Names

1. The Gentle Genius of Bonobos by Susan Savage-Rumbaugh (2007), 17:25
2. Photos that Bear Witness to Modern Slavery by Lisa Kristine (2012), 19:21
3. The Linguistic Genius of Babies by Patricia Kuhl (2011), 10:17
4. The Surprising Science of Happiness by Dan Gilbert (2006), 21:16





1. An FCE test and two AT questionnaires
2. Treatment (16 sessions)
3. A vocabulary pre-test in relation to the video
4. Brainstorming of the topic before the 1st exposure
5. Watching the video
6. Answering a list of related questions before the 2nd exposure in groups or pairs (20 minutes)
7. Listening to the video and read its transcript before the 3rd exposure
8. Student presentation of the topics in the upcoming 2/3 sessions
9. An MC vocabulary post-test
10. One delayed post-tests (40/98) and the same two questionnaires



- 1. There was no correlation between AT (both before and after dividing them into three groups of high, mid, and low) and incidental vocabulary acquisition**
- 2. The results of four paired sample t-tests indicated that all the students' had significantly improved their vocabulary knowledge at the end of the course irrespective of their differences regarding AT.**

Conclusions

- The use of the TED application & its talks fosters incidental vocabulary acquisition.
- Any increase in vocabulary knowledge enhances comprehension.
- The use of ICT tools (Ted Talk) in the class creates a sense of collaboration in pair/ group work.
- Greater frequency of exposure to target words fosters vocabulary learning.
- Frequency of exposure to target items cancels the effect of differences in ambiguity tolerance.





❖ Students

- enjoyed a big difference to their daily lesson schedule.
- showed great enthusiasm for the TED topics and Ted sessions.
- demonstrated an increase in their self-confidence after the second presentations.
- experienced a lively and authentic atmosphere due to TED talks use in the class.
- were eager to collaborate actively in TED video discussions.
- expressed their satisfaction & motivation at the end of the term and asked for having more TED classes.

