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Medan, North Sumatra - Indonesia



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Rundown of The 4th Annual Internatioanal Seminar on Transformative Education and Educational Leadership (AISTEEL) 2019
Garuda Plaza Hotel, Medan, 23 – 24 September 2019

1st day (Monday, September 23, 2019)

Time	Activities	PIC
15.00 – 20.00	Registration in Garuda Plaza Hotel	committee

2nd day (Tuesday, September 24, 2019)

Time	Activities	PIC/Moderator
07.00 – 08.30	Poster Sessions 1	Section Poster 1
08.30 - 09.00	Opening Ceremony 1. MC Speech 2. Traditional Welcome Dance 3. Indonesian National Anthem 4. Pray 5. Chairperson Report 6. MoU signing between Unimed and PSU - Thailand 7. Welcoming speech of Director of Postgraduate School 8. Welcoming speech and official opening of Rector of State University of Medan	MC
09.00 – 09.40	Plenary Lecture 1: Prof. Dr. Syawal Gultom, M.Pd (State University of Medan– Indonesia)	Moderator Section
09.40 – 10.25	Plenari Lecture 2 Prof. W. L. Quint Oga-Baldwin (Department of Education, Faculty of education and Integrated Art and Sciences, Waseda University - Japan)	Prof. Amrin Saragih, PhD (Panel)
10.30 – 11.15	Plenari Lecture 3 Prof. Dr. Wu-Yuin Hwang (Graduate Institute of Network Learning Technology National Central University, NCU - Taiwan)	
11.15 – 12.00	Plenari Lecture 4 Prof. Dr. Ekkarin Sungtong (Dean of Faculty of Education Prince of Songkla University - Thailand)	Mangara Simanjorang, PhD (Panel)
12.00 – 12.45	Plenari Lecture 5 Asst. Prof. Patcharin Panjaburee, Ph.D. (Mahidol University – Thailand)	
12.45 – 13.30	Lunch Break/ Poster Sessions 2	Section Poster 2
13.30 – 15.30	Parallel Session 1	
15.30 – 16.00	Break/ Poster Sessions 3	Section Poster 3

15.50 – 18.00	Parallel Session 2	Moderator/Operator
18.00 – 19.00	Break/ Prayer	
19.00 – End	Banquet (Gala Dinner) - Announce of Best Presenter - Announce of Best Poster	Consumption Section

Proceedings of the 4th Annual International Seminar on Transformative Education and Educational Leadership (AISTEEL 2019)

Preface

The 4th Annual International Seminar on Transformative Education and Educational Leadership (AISTEEL 2019) was held in Garuda Plaza Hotel, Medan City-Indonesia on 23-24 September 2019. This seminar is organized by Postgraduate School, Universitas Negeri Medan and become a routine agenda at Postgraduate program of Unimed now.

The AISTEEL is realized this year with various presenters, lecturers, researchers and students from universities both in and out of Indonesia participating in, the seminar with theme “Education, Learning and Leadership Innovation.”

The plenary speakers coming from various provinces in Indonesia have been present topics covering multi disciplines. They have contributed many inspiring inputs on current trending educational research topics all over the world. The expectation is that all potential lecturers and students have shared their research findings for improving their teaching process and quality, and leadership.

The fourth AISTEEL presents a keynote speaker and 4 distinguished invited speakers from Indonesia, Japan, Taiwan, and Thailand. In addition, presenters come from various Government and Private Universities, Institutions, Academy, and Schools. Some of them are those who have sat and will sit in the oral defence examination.

There are 310 articles submitted to committee, some of which are presented orally in parallel sessions, and others are presented through posters. The articles have been reviewed by double blind reviewer and 172 of them were accepted for published by Atlantis Press indexed by International Indexation and 96 papers are published by digital library indexed by google scholar.

The Committees of AISTEEL invest great efforts in reviewing the papers submitted to the conference and organizing the sessions to enable the participants to gain maximum benefit.

Grateful thanks to all of members of The 4th Annual International Seminar on Transformative Education and Educational Leadership (AISTEEL 2019) for their outstanding contributions. Thanks also given to publisher for producing this volume.

The Editors

Bornok Sinaga
Rahmad Husein
Juniastel Rajagukguk

Table of Content

Title And Authors	Page
Learning Media Development of Foklore Text Which is Based on Digital in the 10th Grade of Vocational High School PAB 1 Helvetia <i>Yogi Andriyan Zunaeidy</i>	1-3
Translation Shift in the English Version of Musabaqah Tafsir Quran <i>Muhajirah Binti Jamaluddin</i>	4-8
Types of Lexical Creation in Iis Dahlia's Slang Words in Mamaku Hits <i>Filzah Farhana Hasibuan</i>	9-12
The Effect of Learning Strategies and Achievement Motivation on Entrepreneurship Learning Outcomes of Scout Special Unit Education and Culture Program BP-PAUD and DIKMAS Sumatera Utara <i>Johanes Pasaribu</i>	13-16
Analysis of Student's Science Process Skill on Respiration System Topic in Langsa City- Aceh <i>Ajeng Lola Prianti</i>	17-20
Meaning Equivalence in Abdullah Yusuf Ali's Translation of Surah al waqiah from English into Indonesian <i>Wirdatul Mardhiah</i>	21-22
Developing an Authentic Assessment Instrument of Exposition Text Based on Higher Order Thinking Skills (HOTS) in Class X Students of Senior High School <i>Yuli Novita Sari</i>	23-26
Sentence Acquired by Children of 2 – 2.6 Years Old in Bilingual Environment <i>Laura Agustina Simamora</i>	27-29
Development of Study Peripheral Base on the Realistic Approaches to Increase Ability of Mathematical Reasoning of Student Junior High School State 6 Medan <i>Melisa</i>	30-35
Effectiveness of Ecology and Environment Textbook Based on Science Literacy and North Sumatra's Local Potency to Improve High School Student Science Literacy <i>Ivandi Sitompul</i>	36-39
Deposit Determinant Analysis in Bank Sumut <i>Mangaradot Saur A Sinaga</i>	40-47
Development of Teaching Materials Based on Guided Discovery Learning Methods to Increase Mathematical Problem Solving Ability <i>Rianta Ananta Sitepu</i>	48-55
Development of Mathematical Learning Devices Based on Model Problem Based Learning (PBL) to Improve Mathematical Communication Skills of School IT Jabal Noor Students Class VII	56-65

Rizka Putri Rahayu

Development of Thematic Teaching Materials Based on Local Culture at The Fourth Grade of Primary Schools in North Padang Lawas District 66-69

Rahimul Harahap

The Maintenance of Mandailing Language Kecamatan in Torgamba

Putri Nurul Rahmadani Siregar 70-76

Enhancing Students Mathematical Conceptual Understanding by Applying Guided Discovery Learning and Direct Learning Model 77-82

Sri Rahwany Marbun

Development of Learning Devices Based on Realistic Mathematic Education to Improve Mathematical Communication of Students at Senior High School 83-86

Karina Hajar Hutasuhut

The Developing of Interactive Learning Media in Improving The Learning Creativity of 4-6 Year-Old Playgroup Students in PAUD Kenanga Raya Medan 87-89

Romi

The Influence of Learning Approaches and Interest in Learning Against the Results of Learning English in Class VIII Medan SPK Middle School T.A 2018/2019

Juni Triana Sitompul 90-94

Determinant Analysis of Sharia Banking Efficiency in Indonesia

Rahmat Putra Ahmad Hasibuan 95-99

The Development of Interactive Instructional Media Based on Behavioral Perspective to Improve the German Skills of Senior High School Students Grade X 100-102

Hadijah Handayani Sibuea

Development of Guided Inquiry Green Chemistry Practicum Guides 103-106

Ekin Dwi Arif Kurniawan

The Development of Adobe Flash Media Integrated Problem Based Learning on Salt Hydrolysis 107-110

Indriati Aulia

The Effect of Learning Strategy and Interpersonal Communication on the Students Achievement Reading Comprehension English Language at SMP Negeri 1 Selesai Kabupaten Langkat Tahun Ajaran 2018 / 2019 111-115

Husna Lubis

Cognitive Consideration in Persuading Readers in Argumentative Writing 116-119

Betharia br. Sembiring Pandia

The Role of the Single Mother of Parenting in Informal Education in Javanese Ethnic Families in Kualuh Hulu District Labuhanbatu Utara Regency 120-122

Suriyanti Siagian

Understanding of Female Prisoners Character Education Through Formal 123-125

Socialization at Labuhan Ruku Penitentiary

Dian Puspita Sari Sirait

Local Wisdom-Based Education Marsialapari Salak Farmers Sibangkua Angkola Barat Tapanuli Selatan 126-128

Desy Andarini

Rituals at the Tomb of Datuk Darah Putih as a Media for Nonformal Education to Respect Ancestors (Case Study Chinese Ethnic in Aur Village Medan Maimun District Medan City) 129-131

Gadis Anastasia

Interactive Multimedia-Based Learning Materials Innovation for Teaching Basic Techniques in Analysis 132-134

Yuni Chairani

The Effect Model of Learning and Learning Interest Against the Results of Learning the Knowledge of Nature Primary School (SD) in Medan T.A 2019/2020 135-139

Mida Lishanata

Development of Interactive Media in Arabic on the Material Read Class VIII of MTs Darul Hikmah T.A 2019/2020 140-143

Nurul Amri

The Influence of Leadership Behavior, Work Motivation, Job Stress, and Job Satisfaction on Lecturers' Performance 144-146

Hanafiah

Developing Big Book as Reading Materials Based on Thematic Approach for Fourth Grade Students at SD Negeri 028068 Binjai East Binjai Regency Langkat 147-149

Utari

The Development of Textbook Based on Research About the Insect Pollinator on Chili Paper (*Capsicum annum L.*) 150-154

Fitriatul Aspahani

Gratitude Expressions and Responses used by the Characters in the Vow Movie 155-158

Sabrina Octavia Pandingan

Subtitling Strategies Used in The Meg Movie Texts 159-164

Devi Sucina Nirwana

Lexical Metaphor in Novel and Film Critical Eleven 165-167

Indah Christiani Silitonga

The Types of Modality in Teaching Learning Process 168-169

Harnida Tanjung

The Effect of Teaching Strategies and Students Motivation on Reading Comprehension Achievement 170-173

Zulkarnain Batu Bara

The Types of Flouting Maxim by Governor Candidates of North Sumatera in Election Debate 2018	174-176
<i>Tri Wita Indah Sari</i>	
The Effect of Teaching Strategies and Students' Interest on Reading Comprehension of Recount Text of Eighth Grade Students of MTs Qur'an Kisaran	177-179
<i>Ahmad Fauzi</i>	
Flouting Maxims in the Courtroom of Administrative Court	180-182
<i>Aminah Ari Fadhila</i>	
Development of Adobe Flash Learning Media Based on Cooperative Learning to Improve Student's Spatial Ability at Chandra Kumala Secondary School	183-188
<i>Fajar Sukma Harsa</i>	
Improving Results in Learning Bahasa for Poetry Readings with the Implementation of a Direct Learning Model for Fifth Grade Elementary School	189-192
<i>Dr. Mayske Rinny Liando, S.Pd., M.Pd</i>	
Development of Learning Materials Based on Problem Based Learning to Improve Students Problem Solving Ability	193-197
<i>Poppy Amalia</i>	
Analysis Of The Economic Bilateral Relationship Indonesia – China On Balance Of Payments In Indonesia	198-201
<i>Sri Wulandari</i>	
Community Participation in Preservation of City Park The Case of Binjai City, Indonesia	202-204
<i>Widya Afriani Wiliskar</i>	
The Types of Gender Arguments in Instagram (A Case Study of Donald Trump's Political Status)	205-207
<i>Putri Permata Sari Samosir</i>	
The Analysis of Monetary Policy Transmission Mechanism by Exchange Rate Channel in Influencing The Inflation in Indonesia	
<i>Putry Sari Rahmadyah Pulungan</i>	208-214
Translation Technique Applied in Translating the First Call from Heaven Novel	215-222
<i>Sudariyani</i>	
Education Cultural in Bona Pasogit (Ethnographic Study of Education Cultural Inheritance in the Toba Batak Society Marga Panjaitan in Pematangsiantar)	223-225
<i>Tripresar Jhon Tuan Panjaitan</i>	
Evaluation Of Tiered In Order To Increase PAUD Teacher Competence In Medan City	226-230
<i>Rehmenda Christy</i>	
Women Politeness Strategies of Bargaining "Media Credit Store" in Tanjung	231-233

Morawa	
<i>Nahdyah Sari Daulay</i>	
Toba Batak Language Shift in Rantau Selatan	
<i>Helfi Vinawari S</i>	234-236
Development of Interactive Multimedia Digital Storytelling in English Subjects	237-239
<i>Juanda</i>	
The Effect of PLAN (Plan, Locate, Add and Note) Strategies on Students' Achievement in Reading Comprehension	240-244
<i>Neneng Nurhamidah</i>	
Unggah-Ungguh Code Switching in Kartini Movie	
<i>Yutika Sari</i>	245-247
Metaphors in Umpasa of the Toba Batak Wedding Ceremony	248-250
<i>Sactica Oktavyani Sagala</i>	
The Effect of Model learning and Gender Against Piano playing Skills for class V SMK Negeri 11 Medan T.A 2019/2020	251-255
<i>Gufran Nurman</i>	
The Effect of Cooperative Learning Model Based on Aceh Culture to Improve the Generic Science Skills of Student	256-260
<i>Safitri Raufa</i>	
Gender Conversation in Workplace Context	
<i>Aisyah Fitriani Dasopang</i>	261-265
Management and Development Quality of Teacher Performance Through Teacher Competence in the First Middle School in Banda Aceh	266-268
<i>Faisal Anwar</i>	
Modality used in Beauty Product Advertisements on Instagram Caption	269-272
<i>Indah Eka Sari</i>	
Attitudinal Appraisal in Ahok's Speech	
<i>Firdha Sabrina</i>	273-276
Appraisal Attitudes by the Judges on Indonesian Idol "Grand Final" Session	
<i>Mieta Setieya</i>	277-280
The Development of Virtual Laboratory-Based Learning Media of Biology on The Topic of Bacterial for High School Students	281-284
<i>Lailatussyifa</i>	
Analysis of Economic Opening on Rupiah Exchange Rate on United States Dollars (2008-2018)	285-289
<i>Sri Wahyuni</i>	
The Manners of Cognitive Process in Translating English Phrasal Verbs Into	290-293

Indonesian

Fitri Ervina Tarigan

Javanese Addressing Terms Maintenance by the Teenager Speakers in Bukit Malintang 294-298

Sudarti Rahayu Ningsih

Appraisal in Students' Argumentative Writing 299-302

Ika Vanesia Siagian

Speech Pauses Used by Male and Female Students in English Oral Examination 303-305

Lamia Deareni

The Development of Guidance and Integrated Science Practicum Kit Integrated Guided Inquiry Model bases Science Process Skills for Class VII Semester I 306-309

Fretty Nafartilova Hutahaeen

Analysis of Biomolecular Practicum Guides According to KKNi Curriculum 310-313

Nurul Indah Pratiwi

The Cognitive Process of Different Gender in Writing Argumentative Text 314-318

Surya Teriadi Tarigan

The Development of Chemistry Lab Guide Book for High School Based on Guided Inquiry to Measure Scientific Attitudes and Science Process Skill 319-325

Gorat Victor Sibuea

The Unnaturalness of the Translatio of Indonesian Tourist Resorts Signs Into English in Parapat and Bukit Lawang 326-328

Iis Aprianti

Grammatical Error of Speech by Students in Bilingual Program of Ma'had Al Jami'ah UIN North Sumatra 329-332

Riyah Shibha Nasution

Speech Functions Used by Male and Female Tour Guides in Their Touring Interaction with Tourists in Bukit Lawang 333-336

Widya Ningsih

Analysis of the Influence of Economic Openness to Indonesia Growth 337-340

Zando Silaban

Design Development and Standard Operational Procedure for Training Model Management of 3 Diploma Mechanical Engineering University of Medan 341-345

Mindo Judica Pangaribuan

The Euphemism in "Sambah Manyambah" Tradition of Minangnese Wedding Ceremony 346-348

Muhammad Fauzi

Analysis of Factors That Influence the Interdiction of District/City in the Province 349-354

North Sumatra

Muhammad Yulhelmy Isra

Development of Interactive Learning Media Based on Adobe Flash CS 6 in Geographic Lessons 355-360

Mardimpu Sihombing

The Comparison between Predict Observe Explain (POE) and Think Pair Share (TPS) Learning Model on Students Learning Achievement, Activity, and Critical Thinking Skill on Human Circulatory System 361-367

Remli Nelmian Simarmata

Metaphor Translation in English and Indonesian Version of Surah Ali Imran 368-371

Uswatun Hasanah

Development of Interactive Multimedia Digital Storytelling in English Subjects

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Abstract— This study aimed to determine the feasibility of digital interactive Digital Storytelling and to know the effectiveness of multimedia interactive Digital Storytelling on student English learning outcomes. Type of this research used development research from Borg and Galls product development model that combined with Dick and Carey learning development model. The stages of this study are divided in to stages of needs analysis. Digital Storytelling (design) learning media planning stage. Develop and test phase. The results of this study indicated (1) the test of English language material experts is very well qualified (87.50). (2) the learning media expert test is in very good qualification (81.07). (3) the learning design test is very good qualified (88). (4) individual trials are in very good qualifications (94.81). (5) small group tests are very good qualifications (96.09). (6) field trials are very good qualifications (98.57). The results of hypothesis testing prove that there are significant differences between student learning outcomes that do not use Interactive Multimedia Digital Storytelling with those using Interactive Multimedia Digital Storytelling. This is indicated by the results of processing data t count = 5.84. at the significance level = 0.05 t table = 2.75. It was concluded that Interactive Digital Multimedia Storytelling was developed to be feasible and effective to improve learning outcomes in English.

Keywords— *Results of Learning English, Interactive Multimedia Digital Storytelling*

I. INTRODUCTION

Learning media is an integral component of the learning system. Learning media cannot be separated from the learning process. Without learning media, the learning process cannot occur. Learning media is an important part of the learning system, so the use of instructional media influences student learning outcomes. Learning media is a means to convey material to someone to learn, with an interesting media, students will more easily receive subject matter [1].

However, in the modern era the media has been developed to facilitate learning with multimedia which the nature of learning will turn into active classes. Correspondingly,

multimedia is an effective tool in the teaching and learning process. An ordinary class will turn into an interactive class, where students can explore, gain knowledge, even take exams in a pleasant atmosphere. Learning media, according to Kemp (1985) can fulfill three main functions if the media is used for individuals, groups, large listening groups, namely: (1) motivating interests or actions, (2) presenting information, and (3) giving instructions.

[2] defines interactive multimedia as a learning program that includes various integrated sources of various elements of media in a computer program. The program is deliberately designed in parts and structured to provide opportunities for interactivity between developers and users in a flexible manner, so that the learning process occurs. Interactive multimedia applications in learning in general can be grouped by function, namely (a) to train skills (skill builders), (b) to explore knowledge (knowledge explorer), and (c) to enrich the learning process (reference works)

In the 21st century the development of technological tools in learning media is increasingly meeting us. One of the learning media used is digital interactive digital storytelling. [3] said that digital interactive digital storytelling is a computer-based technology that is used to convey a story to listeners in the form of text, animation, graphics, audio and video. Interactive digital storytelling multimedia allows us to be able to develop lessons in the form of stories that are packaged into digital form. This is in line with the 2013 curriculum which uses a thematic approach to stimulate student activity. Besides the use of digital storytelling can also make learning more interesting and can increase students' curiosity with the support of animation, music, pictures, and sounds.

Storytelling in general is a strong pedagogical approach and can be used to improve learning outcomes in education which include scientific and technical studies in learning [4]. At first storytelling was used by the teacher in the learning process with the help of media books or puppets. Storytelling is done by telling a story with an educational content, for example the

fairy tale. The use of storytelling visual aids allows students to live the story through the visualization provided. Storytelling is now transformed into digital multimedia storytelling which not only relies on oral stories but is combined with music, animation, interactivity and narration simultaneously. So that brings a different atmosphere to students. Making digital storytelling multimedia is quite easy because many applications that we use include Adobe Flash and many more according to user needs.

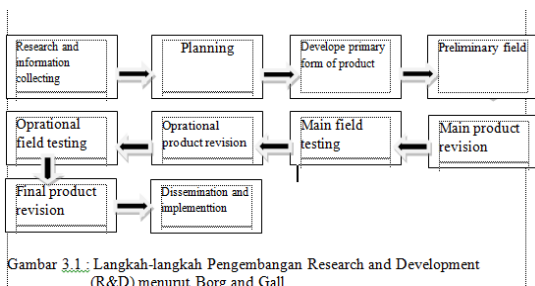
[5] states that integrating digital storytelling into the curriculum in language learning is a creative language learning technique that can increase the level of student learning in reading, writing, speaking, and listening..

II. METHOD

This research was carried out in the senior high school in Sukma Bangsa Lhokseumawe, Class X Semester II. 2018/2019. The time of this study began in January to February 2019. The treatment was carried out during 5 meetings with an allocation of time of 2 x 40 minutes at each meeting. The learning process is done in class.

To achieve the objectives of this study, researchers produced interactive multimedia learning products storytelling on narrative text material in senior high schools with Adobe Flash CS6. Research as a whole uses research with the Research and Development (R&D) method [6].

The development model according to Borg & Gall which consists of ten steps (stages). The ten steps can be seen in the following image:



III. RESULTS

A. Product Feasibility Test Results

Based on the results of the validation carried out by the interactive digital storytelling multimedia product, it was declared feasible to be continued in the field trials. Digital storytelling interactive multimedia developed has met the standards based on the design of learning media development standards and this learning material standards can be seen in the table.

Table. Summary of Product feasibility results based on material experts, design experts, instructional media experts.

Validation Expert	Percentage Results	Eligible / Not feasible
-------------------	--------------------	-------------------------

Learning material expert	87,5%	eligible
Learning media expert	81,07%	eligible
Learning design expert	88%	eligible

The results of the questionnaire submitted to the learning material experts gave 87.5% responses that interactive digital multimedia storytelling was appropriate to use because it contained material and delivery criteria that met the requirements for delivering messages to students. Media experts gave 81.07% responses that interactive digital storytelling was feasible to use because it had fulfilled the principles and criteria for developing instructional media. Meanwhile, instructional design experts gave 88% responses that interactive digital storytelling multimedia is appropriate to use because it has been designed in such a way and meets learning design standards. By looking at the guidelines and assessment criteria according to [7], it can be concluded that the above data proves that the use of multimedia digital storytelling is very feasible for students to use in English subjects.

B. Research Results of Product Effectiveness Test

From the results of data processing research conducted there are average English learning outcomes after using interactive digital multimedia storytelling in class X students senior high school of Sukma Bangsa Lhokseumawe, amounting to 29.13. While learning outcomes in English before using interactive multimedia digital storytelling 26.91. From this data proves that interactive digital storytelling multimedia is feasible and effective in increasing student competence, this is in line with [8] which states that DST has a beneficial effect on reading skills by students being able to associate meaning and emotions with words. Students also develop vocabulary and learn when and where to use certain words and phrases. [9] DST gives a significant value to learning English as well as students' interest and learning tastes and is well used in teaching English.

The same thing was also said storytelling can also help students in learning English become more confident to express themselves spontaneously and creatively. Thus, digital multimedia storytelling that has been produced is feasible and effective for use in learning. This is in line with the results of Wood's research (2001: 15) which states that the advantages of using interactive multimedia in learning are as expressed by the use of multimedia learning has the potential to enhance learning.

IV. FINDING

Based on the results and research discussion of the development of interactive digital multimedia storytelling conducted, it can be concluded as follows:

Interactive multimedia digital storytelling with narrative text material is feasible to use with expert presentation validation 87.50% included in the category of "very good", validation of media experts 81.07% included in the category of "very good", validation of learning design experts 88% included in the "very good" category. Individual trials received a 94.81% presentation. included in the "very good" category, the results of the small group trials received a 96.09% presentation included in the "very good" category and the results of the field trials obtained a percentage of 98.57% included in the "very good" category.

English learning outcomes of students taught by using digital storytelling learning media are higher than English learning outcomes of students taught without digital storytelling learning media that are tested through a statistical test t with the test results showing a tcount of $5.84 > 2.75$. Based on the results of this study also obtained data on average value of students who were taught using digital storytelling learning media higher, namely 29.13 compared to the average value of students who were taught without digital storytelling learning media, amounting to 26.91

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