

A Development of Multimedia for Hang Karoak Thai Silk

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— *Review of* —
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ABSTRACT

The Purpose of this study were to Investigate the Development Multimedia for promoting this was to combination by history the sources of information were from Hang Karoak Textile Multimedia for those who are interested in learning procedure to make sure for the basic understanding before the reality of the textile is produced.

The population samples were:

The 1st group: Members Thai Silk group, Ban Loongpradu, Huaytalang District, Nakhon Ratchasima Province.

The 2st group: The specialists in Hang Karoak Silk and Multimedia

The instrument employed in this study were questionnaires of the Hang Karoak Silk and Multimedia. They were characterized by checklists and rating scale. The researchers and the assistants distributed the questionnaires collected the data for analysis was processed by SPSS/PC+. By Developing Multimedia for the Hang Karoak Silk study of Thai Silk group, Ban Loongpradu, Huaytalang District, Nakhon Ratchasima Province.

The research finding were as follows: The majority of Members Thai Silk group, Ban loongpradu, Huaytalang District, Nakhon Ratchasima Province media users Multimedia were infavoure of Multimedia picture and sound for presentation for the developing Multimedia Thai Silk group, Ban Loongpradu, Huaytalang District, Nakhon Ratchasima Province.

1. The content Thai Silk group, Ban Loongpradu, Huaytalang District, Nakhon Ratchasima Province by the study integrating and guideline multimedia designing 3 style consideration and selection as well as recording from the real location Thai Silk group, Ban Loongpradu, Huaytalang District, Nakhon Ratchasima Province. The specialist in Hang Karoak Silk Textile have evaluating at the best level in order to lead Hang Karoak Silk history from review literator in Hang Karoak Silk Textile interview observing specialist have level content picture level content step content presentation and step of Hang Karoak Silk of Thai Silk group, Ban Loongpradu, Huaytalang District, Nakhon Ratchasima Province.

2. The Multimedia Hang Karoak Silk of Thai Silk group, Ban Loongpradu, Huaytalang District, Nakhon Ratchasima Province, by the study to content and want of media users Multimedia developing multimedia Hang Karoak Silk by developing multimedia picture and sound style the specialist in multimedia have evaluation at the best level in order to lead Hang Karoak Silk from review literator observing specialist. This has been found that the special in multimedia are satisfied with the overall significantly.

Nowadays society realize an important of local wisdom. The local arts and crafts were inherited by predecessors in which discover and create products. It can be seen that Thailand still promotes the arts and crafts of folk weaving for using in household and selling. Fabric is one of the fundamentals of human life. The fabric is a necessary material for clothes production which in represents the national costumes culture of people. In Thailand, HM King Chulalongkorn the Great or Rama V had the royal words to promote sericulture and Thai silk weaving in 1909 and please to establish the Department of Mechanic and school about the Sericulture and established the Sericulture Technician School in Sra Pathum Palace and was expanded the branch to Nakhon Ratchasima Province and Buriram Province in later (Thai Encycropedia for youth: 364 <http://www.widealanna.igetweb.com>. (1 February 2012). After that Her Majesty the Queen Sirikit in Rama 9 of Rattanakosin era, Her Majesty the Queen steadily hearts to maintain the predecessors' wisdom for everlasting. The Queen promotes communities to wear Thai fabric and also establishes The Foundation For the Promotion of Supplementary Occupations and increase income for people to develop value of textiles to be the cultural heritage. The Queen also establishes The Queen Sirikit Museum of Textiles: Thai Silk for collecting the Thai wales for a patent registration by specific the textiles: Thai Silk over 50 years to showcase exhibitions for new generations. (news: *Kom Chad Luek*. 2004. <http://www.komchadluek.com>. (2 February 2012).

Hang Karoak Thai Silk which is the Fabric of Nakhon Ratchasima Province as appear on the research of Mrs.Aoytip Kat-Aim as Nakhon Ratchasima Province is the source of beautiful weaving Hang Karoak Thai Silk according to the Provincial slogan in the past was written "Eloquence Dove, Kamron Cane, Keemha Orange and Hang Karoak Thai Silk". The slogan is the local wisdom consisted of human must learn and was created by the artistically technician skills whose Thai people would be proud of their textiles. (Aoytip Kat-Aim and her team, 2008: A)

Thai Silk group, Ban Loongpradu, Huaytalang District, Nakhon Ratchasima Province is the specialist in Hang Karoak Silk Textile have evaluating at the best level in order to lead Hang Karoak Silk history. They weave the silk with a local loom (an-on-hand loom) and a flying-shuttle loom that are the community goods development. For the community economic development process or One Tumbon One Product, the local textile is the reflected wisdom arts in local.

The study was analyzed the relevant theory that the conclusion of Arts and Crafts mean a decorative art by human which represents to sense with believe in the result of beauty and satisfaction of creators in local. (Penarin Sariya, 2013: 1-5) Hang Karoak Thai Silk, Ban Loongpradu, Huaytalang District, Nakhon Ratchasima Province is the real Arts and Crafts, local people are together to organize a group whom purposes to conserve the Hang Karoak Thai Silk weaving named "Thai Silk group". A dissemination of Hang Karoak Thai Silk weaving step and a place of publish are the important factor to organize the media of how to weave textiles before studying practically and should published by using picture and sound media which now in Thai Silk group publishes by explanation how to weave the Hang Karoak textiles for those who interested in steps of textiles before

practically does. At the Learning Center now there is not media to explain the step-on-steps for those who interested in easily learning by themselves.

According to the rationales and problems, the researchers aim to develop media to explain Hang Karoak Thai silk weaving steps including publicize for those who interested in easily learning and all members Thai Silk group can publicize by multimedia that the researchers have developed for the correctly standard and realistic publication and to inherit Hang Karoak Thai Silk weaving for youth who should inherit Hang Karoak Thai Silk, the provincial textiles to the nation.

THE PURPOSE OF RESEARCH

To develop Multimedia for publication weaving Hang Karoak Thai Silk, Ban Loongpradu, Huaytalang District, Nakhon Ratchasima Province

THE EXPECTED RESULT

To take the knowledge of organized Multimedia presentation procedure of weaving Hang Karoak Thai Silk could make reputation and potential of Nakhon Ratchasima Rajabhat University to Ban Loongpradu community, Huaytalang District, Nakhon Ratchasima Province.

THE METHODOLOGY

This research is to research and develop the Multimedia presentation design arts. The researchers study Hang Karoak Thai Silk Ban Loongpradu community, Huaytalang District, Nakhon Ratchasima Province; the creation and utility, Multimedia presentation development process, weaving Hang Karoak Thai Silk, Huaytalang District, Nakhon Ratchasima Province by 3 styles of research are the Multimedia Learning Center.

The first style is to find: the content, history, story, Hang Karoak Thai Silk category, material, equipment and suitable procedure for weaving Hang Karoak Thai Silk in which can become to the Multimedia presentation development guideline by Hang Karoak Thai Silk specialist's answers, Ban Loongpradu community, Huaytalang District, Nakhon Ratchasima Province. The specialists had studied the weaving Hang Karoak Thai Silk for 5 years or have evaluating at the best level in order to lead Hang Karoak Silk history from review liberator in Hang Karoak Thai Silk interview observing specialist have level content picture level content step content presentation and step of Hang Karoak Thai Silk.

The second style is to find what the problem of Hang Karoak Thai Silk group, Ban Loongpradu, Huaytalang District, Nakhon Ratchasima Province by studying the content and how they want to media the Multimedia developing Hang Karoak Thai's users and they take the questionnaires by themselves with the new Multimedia requirement from check lists and rating scale to the Multimedia presentation development guideline.

The third style is to develop the Multimedia and create the Multimedia as the results of the data analysis in the second style to take the literature evaluation, picture, animation, sound and video by taking the answers from the technological specialists, the postgraduate education specialist or experienced in developing multimedia at least 5 years. The researchers and Thai textile members distributed the questionnaires, collecting the data for analysis by the evaluation which is the rating scale.

THE RESULT

The Hang karoak Thai Silk Multimedia development study, Ban Loongpradu, Huaytalang District, Nakhon Ratchasima Province were 3 procedures as follows:

Firstly, the result of the weaving procedure of Hang karoak Thai Silk, Huaytalang District, Nakhon Ratchasima Province and the history were found that were a long time history throughout the Hang Karoak Thai Silk, Korat from Tais – Laos in Nadoon District, Mahasarakham Province immigration and made a village called “Loongpradu Village” in 1935. Loongpradu people did farming, growing crop, sericulture and textile weaving to until now as the last Provincial Slogan was “Eloquence Dove, Kamron Cane, Keemha Orange and Hang Karoak Thai Silk”. In the era of King Chulalongkorn the Great, Rama V founded the Department of Mechanic and school about the sericulture, particularly in cooperation with national expert names Kame Toro Tayama, Japanese in 1903 who was the head of sericulture teachers using the Japanese silk machine. The machine was used by hands to spin and feet to tread. As the famous of the higher level textiles handwork of the Northeast. After that the King ordered to the establishment of agencies to promote and develop as a major province silk weaving to Nakhon Ratchasima Province even though the Department of Mechanic has been canceled, almost the Northeast people and also Ban Loongpradu people, Huaytalang District, Nakhon Ratchasima Province do the sericulture until now.

Hang Karoak Thai Silk sorted by the characteristic of textile when textiles were already weaved getting tiny pattern that made from taking twist them together till the same line and weave them or take the together-twisted silk look like squirrel tails. There are many dimensions and look glassy glitter pattern that was applied by creative weavers.

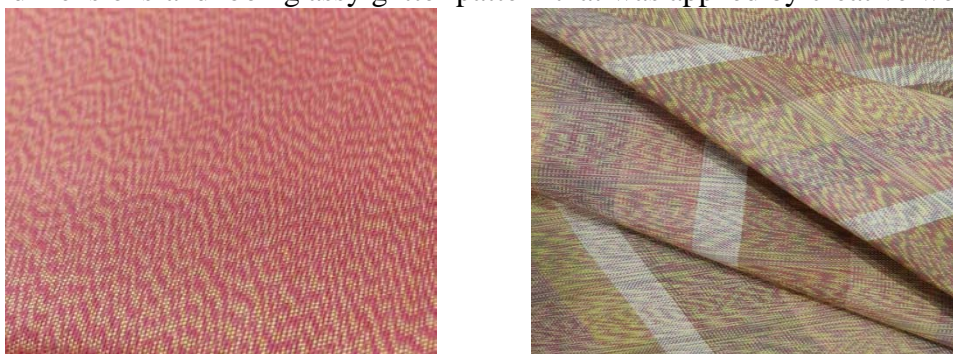


Figure 1 Hang Karoak Thai Silk Pattern

Cited: Mae Choosri Karaingram, the head of group Thai Silk, Ban Loongpradu, Huaytalang District, Nakhon Ratchasima Province

Hang Karoak Thai Silk, Ban Loongpradu, Huaytalang District, Nakhon Ratchasima Province, there are the completely procedures for making the beautiful hang Karoak Thai Silk used in various benefits. The Hang Karoak Thai Silk weaving when were arranged by 12 briefly procedures as follows:

Step 1 Silkworm People in Ban Loongpradu, Huaytalang District, Nakhon Ratchasima Province crop Mulberry trees to feed silkworms.

Step 2 Selecting the perfect cocoon when the people get cocoons from step 1. It's must to select the perfect cocoon then count on suitable cocoons for a pot.

Step 3 Filature should verify all equipment's filature must be clean and prompt to use: cocoon pot, silkworm paddle, stove and reel for filature must be flown when the equipment was verified. Next boil clean water to 80 – 95 Celsius then take the cocoons for cortex filature.

Step 4 Natural purify and wash silk glue to take the silk glues getting free from the silk before natural dye.

Step 5 Natural dye is to extract plants and nature materials to get a color and dye the purify silk in the step 4.

Step 6 Find warp silk is to prepare an another silk yarn by the length you want because it cannot change any warp silk until finish weaving that is very important process.

Step 7 Enlarge warp silk is to bring the warp silk to enlarge a silk yarn in the teeth of comb by enlarging line-by-line until warp silk is empty. Use streamed sticky rice to grind as glue to connect.

Step 8 Twist Hang Karoak Pattern for weaving Hang Karoak Thai Silk is the important step differences from another weaving. The silk twisting for use as warp silk, the procedure to twist Hang Karoak Pattern are as follows:

- Prepare silk 2 or 3 colors (should select different color for getting the clearly Hang Karoak Pattern).
- Take 1 silk into a weaver roll, 1 weaver roll per 1 color (if you twist 2 colors with 2 silks, you can take 1st color into 1st weaver roll and 2nd color into 2nd weaver roll. If only you want to twist 3 silks with 3 colors, you would prepare the weaver roll for 3).
- Put on 2 colors of silks or 3 colors of silks draw them to the weaver roll throughout a silk loop higher than a person who twists after that pull all silks down and you can see the silks are together twisted. Then brings the end of silks thread through a

shuttle hole (you should take a heavy object overlay to strengthen a shuttle) and roll into axle. Use a right hand to roll into axle and left hand takes the silk. Sprinkle by rolling out of body together with using 2 hands. The twisting for 1 round gets 6 far twists per 1 inch if only you want to twist it frequent, bring back the silk from weaver roll to axle then twist again so you can get the frequent twist around 6 – 8 twists per 1 inch.

- The Hang Karoak Twist, for those who twist must have experience and skill for the higher twisting to get equally frequent twist and far twist as you want. A twist's size depends on a size of weaving stick about 1.5 – 2 inch for frequent twist when taking to weave it appears a beautiful sharp-overlap texture. You will get a far twist for 3 inch of weaving stick when taking to weave it appears a beautiful obtuse-angle-overlap texture.
- In using the Hang Koak Twist weaving for a weft texture, weaves 2 weaving rolls by multicolored then you will get the left & right Hang Karoak Twist as well as a beautiful wave.

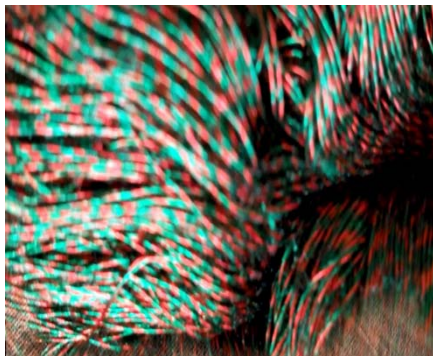


Figure 2 The Twist of Hang Karoak Thai Silk

Cited: Thai Silk Group, Ban Loongpradu, Huaytalang District, Nakhon Ratchasima Province

Step 9 Drawing a silk is to specify the length relied to the length of silk for stretching and roll with a stick silk by silk until complete.

Step 10 Binding is to bundle to pole with left and right for each pole together with a step-on.

Step 11 Sewing or Weaving when you already arrange every procedure from above. An important procedure for getting a beautiful Hang Karoak Thai Silk is to take the twist silk which is the drawing silk by frequently power. Roll the weaving axle strength and push down by feet's power strength. Use a vibrate stick to take the silk to side. Hit a weaving comb twitch to feet and do like this until you get your favor silk.

Step 12 Taking Chaikrui or Making the end of silk means the end of shawl and scarf. Except a fabric which for making cloth. In Ban Loongpradu, they tie a silk as Sapparod texture (a pineapple texture) and tie to twist for equal at last tie to knot for a beautiful shawl or scarf.

Part 2 As the result of Development Multimedia needs for Hang Karoak Thai Silk were found that an opinion of user who answer the questionnaire about the Development Multimedia needs for Weaving Hang Karoak Thai Silk publication. Almost multimedia aimed to present Hang Karoak weaving in term of picture and sound media.

Part 3 The result of Development Multimedia for Hang Karoak Thai Silk, Huaytalang District, Nakhon Ratchasima Province were found that the specialists of contents for weaving Hang Karoak are satisfied with the contents in a very good level ($\bar{x}=4.28$, S.D.=0.39) when consider the satisfaction in each part were found that the specialist are satisfied in the very good level amount 1 part. For the highest average of the satisfaction is the conclusion ($\bar{x}=4.58$, S.D.=0.29) and the introduction ($\bar{x}=4.58$, S.D.=0.29) and the content ($\bar{x}=4.58$, S.D.=0.29). For the satisfaction of specialists for Multimedia for publishing uses the weaving Hang Karoak Thai Silk in a very good level ($\bar{x}=4.58$, S.D.=0.29) when we considered by the satisfactions in each part were found that the specialists were satisfied in the highest level for 2 parts and satisfied for 2 parts as well. For the highest level for average is the picture ($\bar{x}=4.67$, S.D. =0.14) and the arrangement ($\bar{x}=4.67$, S.D. =0.14).

THE ACKNOWLEDGEMENTS

From the result of research for development Multimedia, the analysis, the data, the documents and the related research were found that the Multimedia used are the real mass in which create the real product and the head of Thai Silk Group is the presenter of the real practicing. They did not use any speaker so that we use it as the guideline for development Multimedia for Hang Karoak Thai Silk. The research is aimed to correct the content and standard of the Multimedia production and needs of user and also be able to publish in the future. The researchers found the specialists of Multimedia and mostly members of Thai Silk Group who takes this Multimedia being satisfied with clearly picture, clearly alphabet, clearly sound and suitably arrangement of introduction are in the highest level of satisfaction that mash up with “The Development of Service and Mass Communication Technology Introducing Multimedia Form, Chaing Rai Rajabhat University” of Kanchana Nantararat (2011) were found increased satisfaction for Multimedia in the higher level. For service user, there were clearly easy-to-read alphabet, comfortably button for service and convenient for self-learning in the higher level and give a suggestion for making the Multimedia of another service and should bring this Multimedia on the website.

APPENDIX

1. The suggestion for using this research

The researchers aim to create the Multimedia of weaving Hang Karoak, Huaytalang District, Nakhon Ratchasima Province to respond the users' needs of Hang Karoak Thai Silk presentation. The research is expected to take the result of research to increase studying or being Input toward the development process for some Multimedia creative. Intend to discover and being supported by an organization to support and promote this knowledge:

The Thai Silk Group, Nakhon Ratchasima Province can take this research to a learner for a fundamental historic, tools and procedures of weaving Hang Kaoroak Thai Silk such as The Community Development Department and school can take to teach a student and learner.

1. The suggestion for next research

A Development Multimedia for Hang Karoak Thai Silk, Hauyतालंग District, Nakhon Ratchasima Province, for this research, the researchers have the suggestion to other researcher that are as follows:

- 1.1 Should do a comparison research of a studying Multimedia population before practically and not studying population.
- 1.2 Should prepare creating Multimedia in each group and each content in which a local wisdom to study before practical.

REFERENCES

- Kom Chad Luek. 2004. *A guideline for Thai Silk conservation*. [Online]. Source: <http://www.komchadluek.com> [8 January 2008].
- One Tambon One Product National Executive Board. (2012). *The Guideline for Collecting the Best of Thailand's One Tambon One Product year of 2012*. The Community Development Department, Ministry of Interior.
- Jakkrit Pinyapong. (2005). *Inherited wisdom, holistic health, rehabilitation and integration*. Uttaradit: Uttaradit Rajabhat University.
- Chaiyuth Patan. (2000). *Learning applications MULTIMEDIA TOOLBOOK II 5*. Bangkok: SPC Books.
- Taweesak Karnjanasuwan. (2003). *Multimedia the Basic Version*. Bangkok: KTP Com&Consult.
- Nongluck Suwanpan. (2014). *Ban Loongpradu Thai Silk*. [Online]. Source: woodychannel.com [11 January 2015].
- Nikom Chomphoolong. (2005). *Local Wisdom toward learning*. 2nd Published. Mahasarakham: Apichart Pulishing.
- Praneet Worawongsanon. (2000). *Information of Teaching of weaving of Thai-Yuan*. Thai-Yuan Silk Group, Ban Nonkhum, Sikhio District, Nakhon Ratchasima Province.
- Penalin Sariya and team. (2012). A Development of Multimedia for Thai - Yuan Silk Case Study of Textile Center, Ban Nonkhum, Sikhio District, Nakhon Ratchasima Province. Nakhon Ratchasima: Nakhon Ratchasima Rajabhat University.
- Montian Tungsiriphat. (1995). *Fabric in Korat, The Best Products Volume 5, The technician*. Nakhon Ratchasima: Contemporary Art Center, Nakhon Ratchasima Ratchasima Rajabhat Institue.
- Thailand Cultural Foundation Encyclopedia, Commercial Bank of Thailand. (1999). *Culture Encyclopedia of Isan*. Bangkok: Thailand Cultural Foundation Encyclopedia, Commercial Bank of Thailand.
- Multimedia. (2008). *Mass Multimedia*. [Online]. Source:
- Copyright © 2016 GMP Press and Printing (<http://buscompress.com/journal-home.html>)
ISSN: 2304-1013 (Online); 2304-1269 (CDROM); 2414-6722 (Print)

<http://www.thaigoodview.com>. [27 February 2012].

Yawanuch Pinnaluck. (2006). *knowledge about the silk Promotion*. Bangkok: NRCT.

Supawattanakorn Wongthanawasuw and team. (2007). *Basic Statistics for Local Research*. Bangkok: Expertness.

Encyclopedia Thailand for youth. (EPTY). *Promoting local fabrics, past and present*. [Online]. Source: <http://idealanna.igetweb.com>. [1 February 2012].

Huai Thalaeng Community Development Office. (2011). Fabric Group of Ban Loongpradu. [Online] Source: kmcd.egaters.com. [20 June 2014].

Mrs.Aoytip Kat-Aim and team. (2007). *A Development of Hang Karoak Thai Silk Product*. Nakhon Ratchasima Rajabhat University: The Higher Education Administration.

OTOP Today. (2013). *The Sericulture / Silk*. [Online] Source: <http://www.otoptoday.com/wisdom>.