

Illustration design of the 24 solar terms

Jing Pan

School of Art and Design, Wuhan textile university, Wuhan, China

Abstract: The culture of the twenty-four solar terms is based on the ancient civilization of farming and cultivation, and has been developed over thousands of years in accordance with the laws of nature. Today, with the rapid development of information technology, the traditional culture of the twenty-four solar terms still plays an extremely important role. An in-depth study of the traditional Chinese culture of the twenty-four solar terms is of great importance to the inheritance and development of our traditional culture. This paper takes the connotation of the traditional culture of the twenty-four solar terms as a starting point, explains and summarizes the way in which the traditional Chinese folk art presents and expresses the traditional culture of the twenty-four solar terms, and from the perspective of illustration art presentation, examines and analyses in detail the influence of the twenty-four solar terms on the culture of food and flavor, while integrating modern illustration design concepts and using digital electronic methods to The design of this work is based on the concept of digital and electronic illustration.

Keywords: The twenty-four solar terms; Illustration; Traditional culture.

1. Introduction

The twenty-four solar terms literally mean the beginning of the four seasons. The word "立" means the beginning. The summer solstice and the winter solstice - one indicates the arrival of summer and winter. "Solstice" means arrival. Spring and autumn equinoxes - a sign of equal length of day and night. The "equinox" means equal division. These two festivals generally fall on the 20th of March and 23rd of September in the Julian calendar. The summer heat means hot and scorching. White dew - a time when the temperature starts to drop and it becomes cooler, with cold dew on the grass and leaves in the morning. It is around the 7th of September on the Gregorian calendar every year. Cold Dew - The weather gets colder and the air becomes dewy, gradually starting to feel chilly. Frostfall - the weather gets colder and frost begins to fall. The frost is usually on October 23rd of each year.

2. Illustration design for the twenty-four solar terms

2.1. Background of the illustration

The diversity of digital illustration presentation and communication mediums reveals that it has a peculiar absolute advantage in the visualisation of information. In today's development, whether the body we possess is artificial or not, the physical body is not the whole of the human being. Archaeological evidence from the past shows that the twenty-four solar terms still have a significant influence on the present day, and that we live in an immaterial world, a world of mind, emotion and perception. The material world is different from the mind, but it is not unrelated.

2.2. The Story of Illustration

As our national strength improves, we are in the midst of a strong renaissance of traditional Chinese culture. This renewed novelty is not only reflected in the IP craze of the national trend, but also in our ability to look at traditional Chinese culture from the beginning with more confidence and to reflect it in a new position, so that it can create a 'chemical reaction' with contemporary life. The twenty-four solar terms,

as the 'world's intangible cultural heritage', have meaning and speak to our philosophy, allowing us to be who we are. While the meaning of the solar terms is evident in our daily lives and inextricably linked to their use, designers also deliberately use the 24 solar terms in order to inject the image of their reliability and resilience into their products. The appearance of the 24 solar terms is part of the language of industrial design, symbolising the revolution that brought about the age of mass labour and farming. Our ability to mass produce and shape the 24 solar terms has also shaped us. We look up to the 24 solar terms because they are our reliable, sturdy and powerful servants. Every time we get on a car or train we see the wind blowing the wheat and the grain harvest because of the 24 solar terms. Humanity has a long history, which makes it difficult to generalise our view of the civilisation of the solar terms. We love the 24 solar terms for many reasons, such as the sense of industry, but we also hate them for the same reasons.

2.3. The meaning of illustration

Each of the solar terms has many meanings, so the adjectives I have chosen for the 24 solar terms in this book are not the only elegant answers. I chose the adjectives and all the content is from my point of view, to highlight one thing: we are all inextricably linked to the festivals in the material world. The Lantern Festival is also in the Rainy Season and is characterised by lantern riddles and lanterns, so I intend to incorporate a lot of lantern elements. At the Spring Equinox, the ancient language 'the earth leaks like a sieve at the Spring Equinox' means that as the surface temperature rises, so does the amount of rain and the sound of thunder. It is also customary to fly kites at the spring equinox. "In the south, noodle shops of all sizes have one thing in common: they are busy picking mugwort and then extracting the juice from it, as well as the tung blossoms. Tong, is a kind of wood name, the ancients think that tung wood know sun and moon leap year, and said: "tung not Hua, the year has a big cold". So tung wood is also one of the things I wanted to present in my picture. The earthworms are used to help loosen the soil, which is why farmers use them for farming. The dumplings are made from glutinous rice, bamboo leaves and lotus leaves, and I have prepared a composition in which the dumplings

and lychees are placed in interlocking bamboo baskets. At the summer solstice, Yang energy is in full bloom. At the summer solstice, the heat of the summer is drawn out. At autumn, the hibiscus flowers wither and reveal the lotus roots in the submerged soil, which are slowly maturing. The lotus root clears away heat, appeases the stomach and nourishes the blood. The lotus roots are the main focus of the painting, and in summer, the grass hibiscus inevitably evokes dragonflies. Three dragonflies are added to the lotus roots. They add some energy to the painting. At the autumn equinox, the laurel is in full bloom and the fragrance is overwhelming. After the cold comes, it is almost the beginning of the waxing moon, so I intend to use warm tones for the whole picture.

Three, the dynamic performance of the twenty-four solar terms illustration.

3. The Dynamic Expression of 24 Solar Terms Illustration

3.1. The meaning of illustration

In the dynamic design of the Spring Equinox piece, I intend to highlight the pear blossoms and kites flying in the wind to create a relaxing and vivid image for the viewer. In the dynamic design of the Mango piece, I intended to have the wisteria flowers swaying in the wind and then focus on the ritual of sending off the flower gods. Starting from the perspective of the butterfly. The image moves slowly. It gives a sense of novelty and curiosity. We are all very good at perceiving the meaning of the 24 solar terms, sometimes clearly and sometimes inexplicably, and because all objects are made up of the 24 solar terms, the meaning of the 24 solar terms is omnipresent in our minds and bombarded by the external environment. Whether on the farm or on a holiday, special days, the idea of the twenty-four seasons continues to inculcate us. Of course, many people use these meanings to design clothing, products and constructions that make us like them, approve of them and want to keep them close to us. The meaning of the 24 solar terms is thus reinforced by our collective actions and takes on a wide range of meanings. Fashion designers are masters at manipulating these meanings. But we choose the 24 solar terms to reflect our own sense of cost in every part of our daily lives, from the field to the farm. Others will also show us their values in calendars, festivals and celebrations. However, reinvention is not a one-way street. We wanted stronger, more comfortable, waterproof and breathable fabrics, and in order to create such designs, it was necessary to understand the inner workings of the festivals. This has driven the scientific understanding of the 24 solar terms and the progress of the science of the 24 solar terms. As such, the 24 solar terms do reflect us, presenting human needs and aspirations in a multi-scale structure. In my work for the autumnal season I intend to reflect the cicadas, the clusters of asters, the dewy oleander flowers. It appears smooth and detailed, but as soon as you drop water on the screen, the droplets create a magnifying effect, making it visible that it is actually made up of tiny pixels and comes in red, blue and green. After the virgin heat, the weather gradually turns into autumn, the leaves on the trees start to turn red and the mountains and lakes take on a different look, making this time of year quite suitable for autumn excursions. I remember that at the time of the White Dew, sometimes some old people like to make Bilin wine, and every household in the south of the Yangtze River brews rice wine, and the intoxicating fragrance of the wine floats all over the clear lakes and yellow rice fields.

The older generation loved to collect these and use them to make wine or sweet, sticky and delicious cinnamon cakes, or else they would collect a few fallen flowers and make them into delicate little flower buns when they dried up and lost their moisture. The dew is really wonderful, and the white crane flower, also known as the jade hairpin, also happens to be open at the right time of year. As spring turns to autumn, it is time for the swallows to begin their flight from the north to the south, or as the old saying goes, the exchange of yin and yang qi with each other. These tiny liquid crystals can be individually modulated and combined to form all the colours visible to the human eye, and can be switched on and off quickly, so they can be used to watch movies. Porcelain, which is also the result of a change in mesoscopic structure, is another good example: a combination of different glass and crystalline structures to create strong, smooth and yet richly coloured digital technology. When you admire and touch the artistry, you are walking through the combination of these structures on a tenacious scale. A cotton thread may look indistinguishable from a silk or kevlar fibre, it is their structure at the atomic, nano, micro, mesoscopic and pocket scales that make one strong enough to withstand a sharp blade and the other soft as butter. It is at this pocket scale that our sense of touch interacts with matter. Finally, there is the human scale. Once again, these digital technologies look neat and tidy on the outside, but we already know that this is not the case.

3.2. Important and difficult points in the design process

However, because the depth of these digital technologies had to be magnified to be seen, it was not until the 20th century that we discovered this multiscale structure underneath all matter. It was this multiple structure that allowed us to understand why all metals, although similar in appearance, have different properties, and why some plastics are soft and tractable. This is the proudest achievement of the science of digital technology, because it explains so many things. Designing structures at different scales has given us the ability to invent new digital technologies, but for now the challenge is to combine all the scales of the eye to measure the effect of the picture. While the smartphone is an example of this integration, it combines many technologies that facilitate reality. If you think this sounds like science fiction, don't forget that matter in living organisms has been doing this for a long time. For farmers, planting should be done in accordance with the seasons. When it comes to planting crops, you can't delay, if you delay a few days, there will be losses in autumn. For the illustration of the seasons, I also want to show that there are four seasons in spring, summer, autumn and winter, and farmers have to plant according to the seasons. We must plant according to the seasons and follow the laws of nature. Spring, summer, autumn and winter are not so different in the first place, and then I will focus on the celebrations and human habits that come with each of the seasons. In terms of the colour scheme, I intend to divide the colours by season, for example, if it is cold in winter, the colours will be colder, and in summer, the colours can be colder and brighter. The composition should be as compact as possible to bring out the differences as much as possible. From the colours to the subject matter there is a touch of subtlety. The illustration is a simple composition and an enchanting light and shade, which creates a wonderful world of life that people can imagine. With that feeling of enjoying

the landscape.

4. Conclusion

It is not only a pointer to farming activities, but also has a very rich connotation of the deepest levels of national culture. As a distinctive calendar, the twenty-four solar terms have not only promoted the development of China's agriculture and animal husbandry, but have also widely influenced the spiritual life of our people of all nationalities. The twenty-four solar terms are interspersed with distinctive national customs, poems and songs, and stories and legends, which have both strong literary and ethnic characteristics. As early as the Spring and Autumn Period and the Warring States Period, the observation of "the sun arriving in the south and the sun arriving in the north" was recorded in China. In the process of reform and opening up, the twenty-four solar terms have been used as the basis for the development of the solar system. In the process of reform and opening up, China's economy has developed rapidly, science and technology have made great progress, and culture has also made great strides forward, but absurd arguments such as the "Western theory" and "the moon is still round in foreign countries" have also been in the air. At this time, it is particularly important to take up and carry forward our excellent traditional civilization and to establish "national confidence and cultural trust. In today's industrialised and urbanised era, the 24 solar terms still have their unique value and significance. For one thing, the 24 solar terms still meet the needs of contemporary agricultural production, and are still an important guide and coordinate for production and life. For example, before and after the Qingming Festival, it is important to plant melons and beans. In Anhui, for example, women make rice cocoons on the Qingming Festival to pray for a good harvest of silkworms. The Qingming conch, mugwort rice cakes and artemisia baba all show the cultural connotation of people praying for a long and healthy life and commemorating their ancestors. In the Tang Dynasty, Du Mu's poem "Qingming" (Qingming) reads: "Where can I find a restaurant? This shows that the twenty-four solar terms in China not only contain the folk customs of food, housing and transport, but also have a rich cultural connotation and are of great educational significance. In conclusion, in order to promote our excellent culture and build up cultural confidence, we should incorporate the 24 Chinese days into the cultural construction of our campus. Through this understanding, I felt that the festivals can represent many colour combinations, like sequence numbers, and have regularity and characteristics, which is supposed to be a way to get something big after observing things, many variations but very thought-provoking. There are quite a lot of works with this theme that are worth studying and are very representative. I hope I can do my best to express my understanding of the twenty-four solar terms through the knowledge I have learnt and my drawing skills, and to bring back the wisdom of traditional knowledge that may appear frequently but is not clearly understood or ignored by people due to the trivialities of everyday life, although I cannot imitate the usage of the ancients, there are uses for the present generation. Especially when I learnt about the different stories of each of the 24 solar terms and the foods that we must eat and how they are prepared, I felt that I had gained a lot of insight and was no longer just eating dumplings on the winter solstice from Weibo, or not knowing what day was the corresponding solar term. Through this collection of information, I was able to gain a more thorough and detailed

understanding of the festival, from its origins to its changes, and the adjustments made over the years in response to the changing times, all of which are worth exploring. I really think that the wisdom of the ancients is particularly thought-provoking, especially sensible, well organised, really clever and admirable, and these little bits of knowledge are influencing us later, not only as a law of the seasons, used to master the time of sowing and harvesting, but also in many designs, ancient poetry illustrations, classic stories, etc.

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References

- [1] Wang Kun. Research on the dynamism of illustration in the new media era [D]. Shenyang:Lu Xun Academy of Fine Arts,2016.All in 16:11:13.
- [2] Wang Jiahua. Nengdottiveness and living: the Twenty-Four Nengqi as a folklore system. The Four Energies [Small Cultural Reproduction, 2017(2).
- [3] Mei Jing - The evolution of the ancient word for the solar term and the formation of the name of the fourteen solar terms J Huaihua Academy Journal, 2011,30(3):9-11.
- [4] Zhou Hong. The folklore culture of the twenty-four solar terms [J Shenyang Normal University Journal of Shenyang Normal University (Social Science Edition), 2015.39(3):145-147.
- [5] Gao Qiangyi Twenty-four Nengqi Folklore M Beijing: China Society 1/2 Publishing House, 2010.
- [6] Su Man, Li Meijuan. The Characteristics and Social Functions of Chinese Folk Culture. The Character and Social Functions of Chinese Folk Culture [Journal of Chengdu Aviation Vocational and Technical College.2010.26(2):73-76.
- [7] He Xingliang. The Protection of Intangible Cultural Heritage and the Modernization of National Culture [J Zhongnan University of Nationalities The protection of intangible cultural heritage and the modernization of ethnic culture [J Journal of Zhongnan University for Nationalities (Humanities and Social Sciences Journal of Zhongnan University for Nationalities (Humanities and Social Sciences Edition), (3):31-36.
- [8] Wang Xiaoming. An overview of the current status of the protection of the twenty-four Chinese solar terms [J]. Ancient and Modern Agriculture, 2017(2):114-119.
- [9] Song Zhaolin. Illustrating the twenty-four Chinese solar terms [M]. Beijing: World Book Publishing House, 2007. This work is the result of the 2018 Student Innovation and Entrepreneurship Training Program. This work is the result of the project "Research on the design of dynamic illustration of the twenty-four Chinese solar terms" (Project No. 201812056018X).

- [10] Xiao Fang. e Twenty-four solar terms and folklore [J]. Decoration 2015
- [11] Mao Debao, Hu Ke, Li Jie. Book illustration [M]. Hangzhou: Zhejiang People's Art Art Publishing House, 2011.
- [12] Jiang Xiaoyousi. Illustration design [Z]. Changsha: Hunan University Press, 2004.
- [13] Wu Bing'an Folk Calendar: Awakening the Cultural Memory of Traditional Festivals [N]. China Culture News, 2012-11-29(10).
- [14] Gao Qianyi Twenty-four Festivals and Folklore [M Beijing: China Society Publishing House. 2010:53.
- [15] Cai Fengming. The cultural characteristics of China's intangible cultural heritage and its The cultural characteristics of China's intangible cultural heritage and its value in the rich generation [J Shanghai Jiaotong University Journal: Philosophy and Social Science Journal of Shanghai Jiaotong University: Philosophical and Social Sciences Edition, 2006(4):64-69.
- [16] Tang Hanliang. The scientific reasoning behind the formation of the 24 solar terms [J]. Hubei.