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CHORD PAINTING

和弦绘画

(English Chinese Bilingual Version)

(中、英双语版)

Li Xiaohong

李晓虹

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Overview Of Chord Language;和弦语言综述

25 届世界哲学大会论文

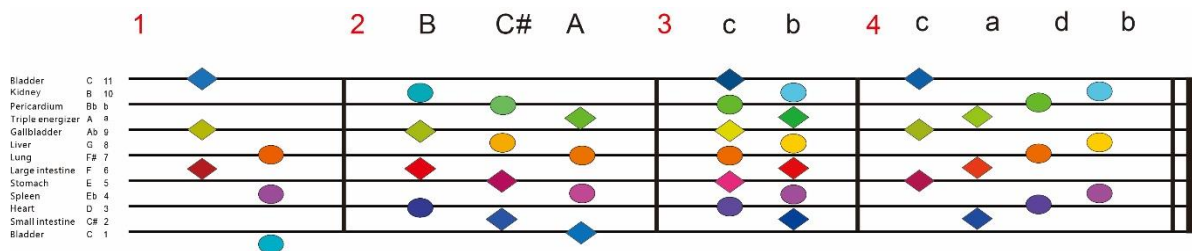
Papers of the XXV World Congress of Philosophy

和弦是一物理语言，其编码、语义形式为：量子化频谱，弦（开，闭，膜），和弦数学等，表达时间（由音乐），空间（由绘画），生命（由经络）等，分布为和弦场（类量子场）。

Chord is a physical language, its encoding and semantic forms are: quantized spectrum, strings (open, closed, membrane), chord mathematics, etc., expressing time (by music), space (by painting), life (by meridians), etc., distributed as chord fields (quantum-like fields).

和弦表达、统一时空、生命、精神——宇宙。

Chord expression, unity of spacetime, life, spirit - the universe.



基本和弦表：1-1、大三和弦（闭弦），1-2、小三和弦（开弦）、2、减七和弦（膜弦）、3、全音阶和弦（膜弦），4、增三和弦（膜弦）

*和弦频谱公式： $n*f$, H^n*f , $H=1.059463$, $n=1,2,3,\dots,n$

*符号：◆=+ 音符，●=- 音符，音符色=色荷

Basic chord table: 1-1, major triad (closed string), 1-2, minor triad (open string), 2, diminished 7th (membrane string), 3, diatonic chord (membrane string), 4, augmented Triads (membrane strings)

* Chord spectrum formula: $n*f$, H^n*f , $H=1.059463$, $n=1,2,3,\dots,n$

* Symbol: ◆=+ note, ●=- note, note color = color charge

关键词：和弦场，量子场，弦理论，音乐，绘画，生命，经络

Key words: chord field, quantum field, string theory, music, painting, life, meridian

Chord Space And Painting;和弦空间与绘画

音乐，绘画基于和弦场（量子场），都具有和弦的物理，数学形式，分别表达和弦空间，和弦时间及其镜像关系，两者既是物理事件，也是精神事件。

Music and painting are based on chord fields (quantum fields), and both have physical and mathematical forms of chords, respectively expressing chord space, chord time and their mirror relations, both of which are both physical and mental events.

和弦空间由弦（开、闭、膜）表达，绘画是其观察基础与应用领域，这是本书的主要内容。

Chord space is expressed by strings (open, closed, membrane), and painting is its observation basis and application field, which is the main content of this book.

弦是和弦的空间语义，和弦是弦的特征频谱：不同的和弦包含不同的空间语义：大三和弦=闭弦（轮廓线），小三和弦=开弦（分面线），等比数列和弦(Proportional sequence chords)=膜弦（非线性空间），三种弦组成空间场（空间语言），产生所有空间状态与相互作用。

Strings are the spatial semantics of chords, and chords are the characteristic spectrum of strings: different chords contain different spatial semantics: major triads = closed chords (contour lines), minor triads = open chords (facet lines), proportional sequence chords = membrane chords (non-linear space), the three types of strings form a spatial field (spatial language) and produce all spatial states and interactions.

参阅：和弦绘画：See also: Chord Painting:

https://www.researchgate.net/publication/340492620_Chord_Painting

<https://zenodo.org/records/13984663>

Chord Spacetime;和弦时空

人类常用到两种时空：和弦时空与非和弦时空，前者基于和弦（量子化频谱，弦），常用于音乐，绘画等；后者屏蔽了和弦，依赖外部参考系（时钟，尺子、参照物），常用于经典物理学等。前者是和弦场（量子场），后者是相对性经验与概念——两种时空意味着两种物理学。

Two kinds of space-time are commonly used by humans: chord space-time and non-chord space-time. The former is based on chords (quantized spectrum, strings) and is often used in music, painting, etc. The latter masks chords, relies on external reference frames (clocks, rulers, reference objects), and is often used in

classical physics, etc. The former is the chord field (quantum field), the latter is the relative experience and concept - two space-time means two physics.

和弦时空由和弦构成，和弦频谱只能取特定离散值 ($n \cdot f$, $H^n \cdot f$, $H=1.059463$, $n=1,2,3,\dots,n$)。

Chord spacetime is composed of chords, and the chord spectrum can only take specific discrete values ($n \cdot f$, $H^n \cdot f$, $H=1.059463$, $n=1,2,3,\dots,n$).

和弦时间与和弦空间互为数学镜像，互为反和弦，可以相互转换，空间具有定域性，时间具有非定域性，表现出：时空二相性（波粒二相性）。

Chord time and chord space are mathematical mirror images of each other and anti-chords of each other, and can be converted into each other. Space is local and time is non-local, showing: space-time duality (wave-particle duality).

和弦具有空间语义（开，闭，膜弦），表达空间的状态与作用，并产生空间场。

Chords have spatial semantics (open, closed, membrane strings), express the state and function of space, and generate spatial fields.

音符具有±属性，是频率的物理属性，涉及正负电荷，磁荷，及和弦的编码，语义规则。

Notes have \pm properties, which are physical properties of frequencies, involving positive and negative charges, magnetic charges, and the encoding and semantic rules of chords.

音乐，绘画基于和弦时空，和弦时空意味着和弦物理学。

Music, painting is based on chord space-time, and chord space-time means chord physics.

Chord Biology;和弦生命

人类观察到两种生命的形式：和弦与生物体（细胞，分子等），分别来自和弦观察者（自观察者）与非和弦观察者（外观察者），生命是和弦与生物体的二层存在。

Humans observe two forms of life: the chord and the organism (cell, molecule, etc.), respectively from the chord observer (self-observer) and the non-chord observer (external observer), and life is a two-layer existence of the chord and the organism.

和弦在人体上表现为经络（脉轮）系统，来自和弦观察者的自观察：十二经络具有受激反应特征频率，分布为：十二平均律 ($H^n \cdot f$, $H=1.059463$, $n=1,2,3,\dots,n$)，与音乐，绘画基于相同的物理，数学形式，表现为和弦场（量子场，生命场）。

Chords appear in the human body as a meridian (chakra) system, which comes from the self-observation

of the chord observer. The twelve meridians have characteristic frequencies of stimulated responses, distributed as follows: the twelve equal temperaments ($H^n \cdot f$, $H=1.059463$, $n=1,2,3\dots n$), which are based on the same physical and mathematical forms as music and painting, and appear as chord fields (quantum fields, life fields).

和弦包（调）是生命的物理与编码形式，是生命的本体。

Chord package (key) is the physical and coded form of life, and is the noumenon of life.

Natural Spirit; 自然精神

人类有两套语言系统：符号语言（后天语言）与和弦语言（先天语言）；前者是人工信息系统，基于语音符号，如：自然语言；后者是自然信息系统，基于和弦（量子化频谱，弦），如：音乐、绘画，经络等；精神是符号与和弦二层存有。

Humans have two sets of language systems: sign language (acquired language) and chord language (innate language); The former is an artificial information system based on phonetic symbols, such as natural language; The latter is a natural information system, based on chords (quantized spectrum, strings), such as: music, painting, meridian, etc.; The spirit is a two-layer being of symbols and chords.

人的认识来自两种观察者：和弦观察者和非和弦观察者，前者产生了音乐、绘画、经络、宗教等；后者产生了科学，哲学等，两种观察者产生了两种世界观。

Human cognition comes from two types of observers: chord observers and non-chord observers. The former produced music, painting, meridians, religion, etc.; the latter produced science, philosophy, etc. The two types of observers produced two worldviews.

和弦表达时空，生命，精神等，是一万物体系。

Chords express spacetime, life, spirit, etc. It is a system of all things.

和弦语义来自和弦（量子化频谱），是自然精神与意志，音乐，绘画是其常见形式。

Chord semantics come from chords (quantized spectrum), which are the natural spirit and will, music, and painting are its common forms.

*本文内容来自对音乐，绘画，经络等和弦现象的观察，实验。

** The content of this article comes from the observation and experiment of music, painting, meridians and other chord phenomena.*

*和弦语言出版物有：《和弦语言》与《和弦绘画》，前者介绍和弦语言的语法、语义规则及数学模型，

侧重和弦空间语言；后者是和弦绘画（和弦空间）的实验图例与教材。

**The chord language publications are: "Chord Language" and "Chord Painting", the former introduces the grammar, semantic rules and mathematical models of chord language, focusing on the language of chord space; the latter is the experimental illustration and teaching material of chord painting (chord space).*

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1、Heptachord; 七声音阶



Still life, Heptachord A major, f sharp minor; 静物、七声音阶，A 大调、升 f 小调



Still life, Heptachord C major, e flat minor; 静物、七声音阶，C 大调、降 e 小调



Still life, Heptachord, C major; 静物、七声音阶，C 大调



Still life, Heptachord, E major; 静物、七声音阶，E 大调



Still life, Heptachord C major, e flat minor; 静物、七声音阶，C 大调、降 e 小调



Still life, Heptachord A major, f sharp minor; 静物、七声音阶，A 大调、升 f 小调



Still life, Heptachord C major, e flat minor; 静物、七声音阶，C 大调、降 e 小调



Still life, Heptachord A major, f sharp minor; 静物、七声音阶，A 大调、升 f 小调



Still life, Heptachord, f sharp minor; 静物、七声音阶，升 f 小调



Still life, Heptachord E major; 静物、七声音阶，E 大调



Still life, Heptachord C major, e flat minor: 静物、七声音阶，C 大调、降 e 小调



Still life, Heptachord A major, f sharp minor: 静物、七声音阶，A 大调、升 f 小调



Still life, Heptachord, f sharp minor; 静物、七声音阶，升 f 小调



Still life, Heptachord E major; 静物、七声音阶，E 大调



Still life, Heptachord C major, e flat minor; 静物、七声音阶，C 大调、降 e 小调



Still life, Heptachord A major, f sharp minor; 静物、七声音阶，A 大调、升 f 小调



Still life, Heptachord C major, e flat minor; 静物、七声音阶，C 大调、降 e 小调



Still life, Heptachord C major, e flat minor; 静物、七声音阶，C 大调、降 e 小调



Still life, Heptachord E major; 静物、七声音阶，E 大调



Still life, Heptachord C major, e flat minor; 静物、七声音阶，C 大调、降 e 小调



Still life, Heptachord F major, d minor; 静物、七声音阶，F 大调、d 小调



Still life, Heptachord A-flat major, b minor; 静物、七声音阶，降 A 大调、b 小调



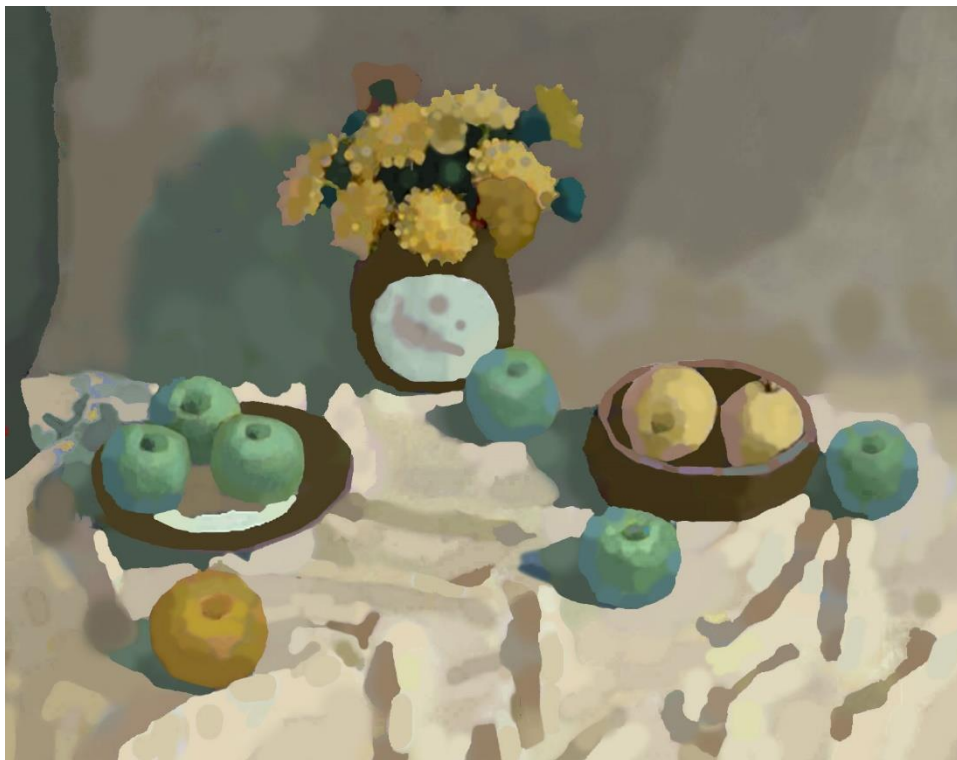
Still life, Heptachord C major, e-flat minor; 静物、七声音阶，C 大调、降 e 小调



Still life, Heptachord, E major; 静物、七声音阶，E 大调



Still life, Heptachord C major, e-flat minor; 静物、七声音阶，C 大调、降 e 小调



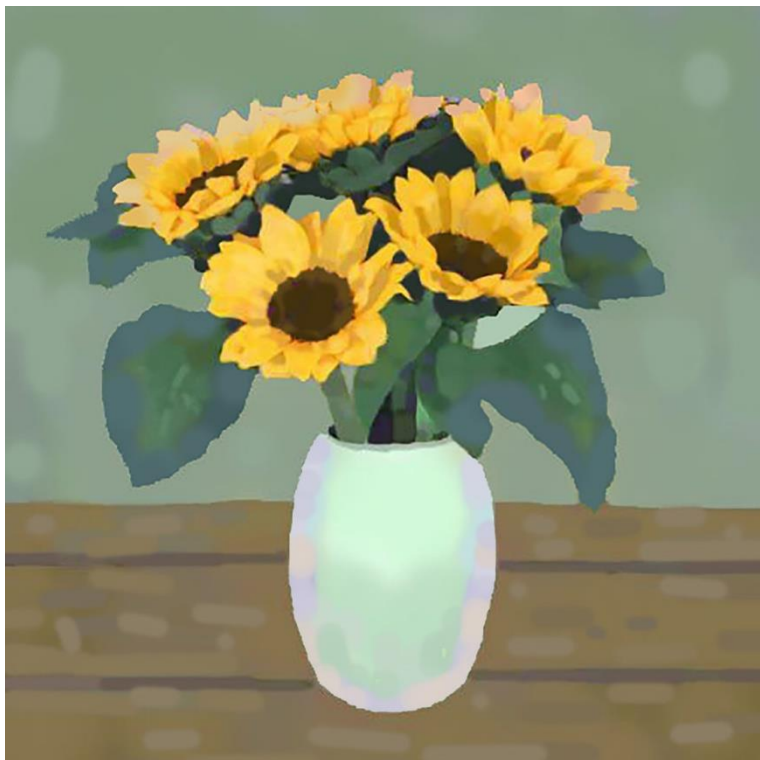
Still life, Heptachord, f sharp minor; 静物、七声音阶，升 f 小调



Still life, Heptachord, E major; 静物、七声音阶, E 大调



Still life, Heptachord C major, f sharp minor; 静物、七声音阶, C 大调、升 f 小调



Still life, Heptachord, f sharp minor; 静物、七声音阶，升 f 小调



Still life, Heptachord C sharp major, b flat minor; 静物、七声音阶，升 C 大调、降 b 小调



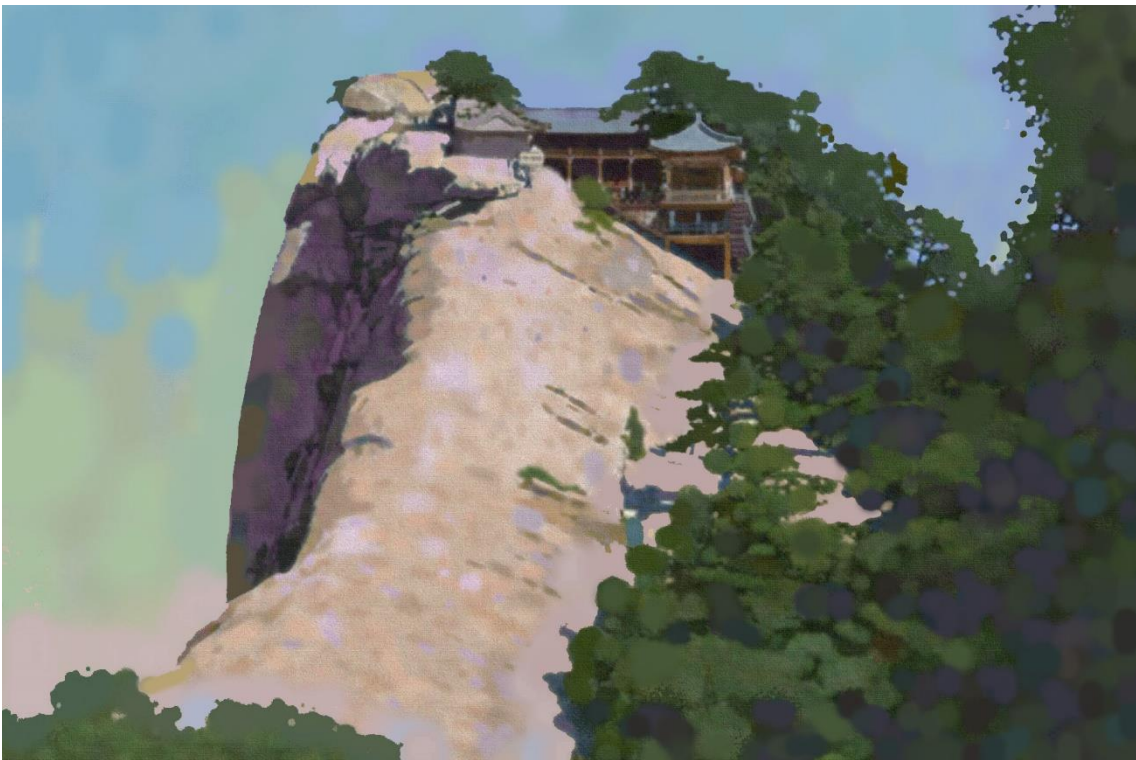
Still life, Heptachord C-sharp major, b flat minor; 静物、七声音阶，升 C 大调、降 b 小调



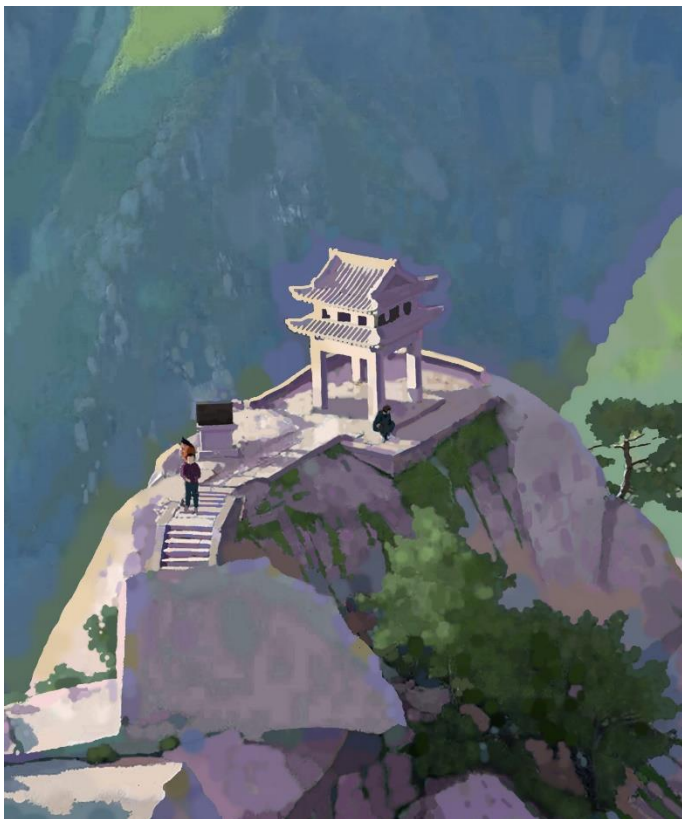
Still life, Heptachord A major, f sharp minor; 静物、七声音阶，A 大调、升 f 小调



Forbidden City, Heptachord A flat major, b minor; 故宫，七声音阶，降A大调、b小调



Huashan, heptachord F major, d minor; 华山，七声音阶 F 大调、d 小调



Huashan, heptachord F major, d minor; 华山，七声音阶 F 大调、d 小调



Heptachord F major, d minor; 七声音阶 F 大调、d 小调



Mount Emei, Heptachord A flat major, d minor; 峨眉山，七声音阶降A大调、d小调



Heptachord A flat major, d minor; 七声音阶，降A大调、d小调



Heptachord A flat major, d minor; 七声音阶，降A大调、d小调



Heptachord A flat major, d minor; 七声音阶，降A大调、d小调



Heptachord A flat major, b minor; 七声音阶，降A大调、b小调



Portrait, Heptachord A flat major, d minor; 肖像，七声音阶，降A大调、d小调



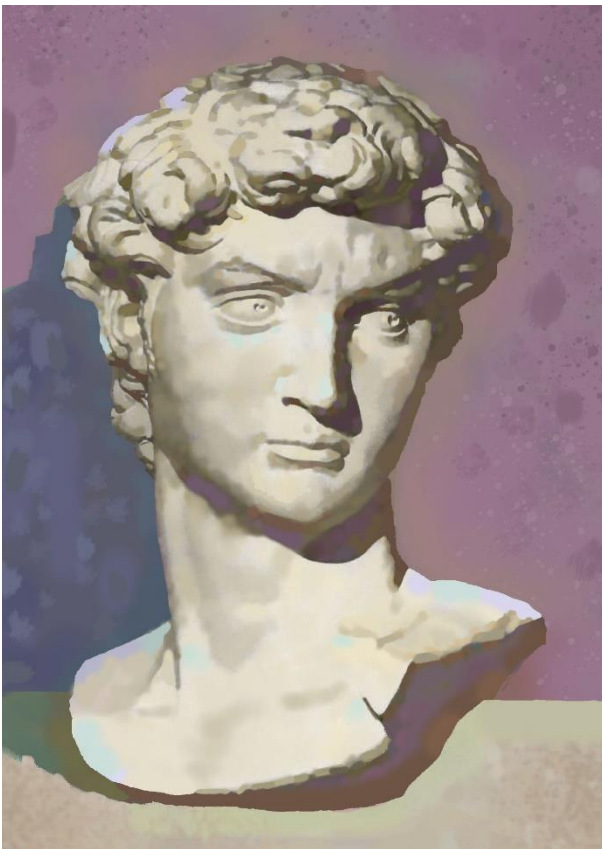
Portrait, heptachord A flat major, b minor; 肖像，七声音阶，降A大调、b小调



Self-portrait. heptachord A flat major, d minor; 自画像，七声音阶，降A大调、d小调



Self-portrait. heptachord A flat major, d minor; 自画像，七声音阶，降A大调、d小调



Heptachord C major, f sharp minor; 七声音阶，C大调、升f小调



Heptachord, f sharp minor; 七声音阶，升 f 小调



Heptachord b flat minor, E major; 七声音阶 降 b 小调、E 大调



Heptachord f sharp minor, C major; 七声音阶，升 f 小调、C 大调



Heptachord f-sharp minor; 七声音阶，升 f 小调



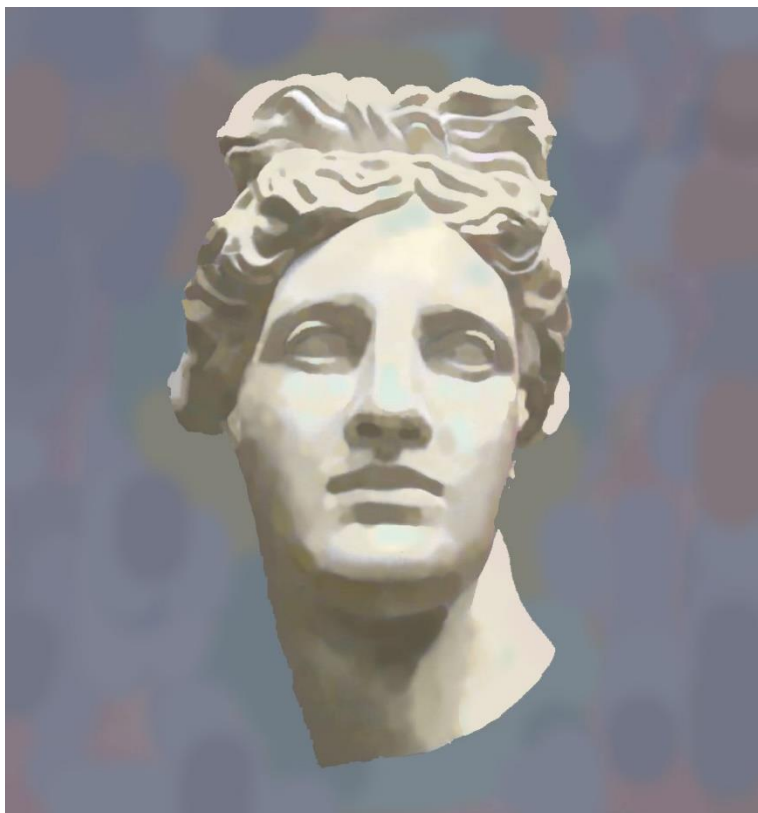
Heptachord f flat minor, C major; 七声音阶，升 f 小调、C 大调



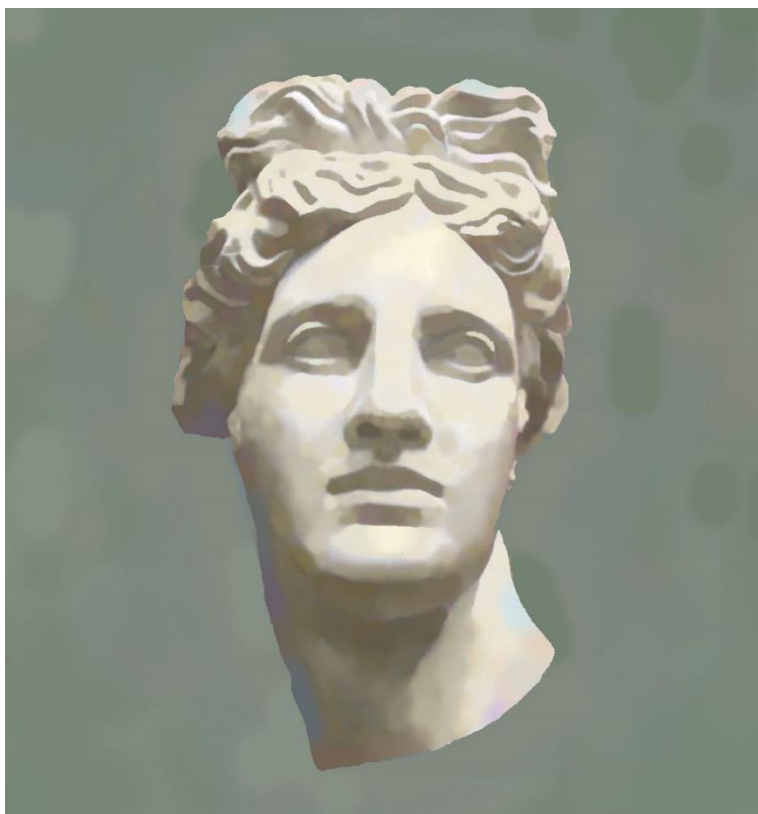
Heptachord f sharp minor, C major; 七声音阶，升 f 小调、C 大调



Heptachord f sharp minor: 七声音阶，升 f 小调



Heptachord f sharp minor, C major: 七声音阶，升 f 小调、C 大调



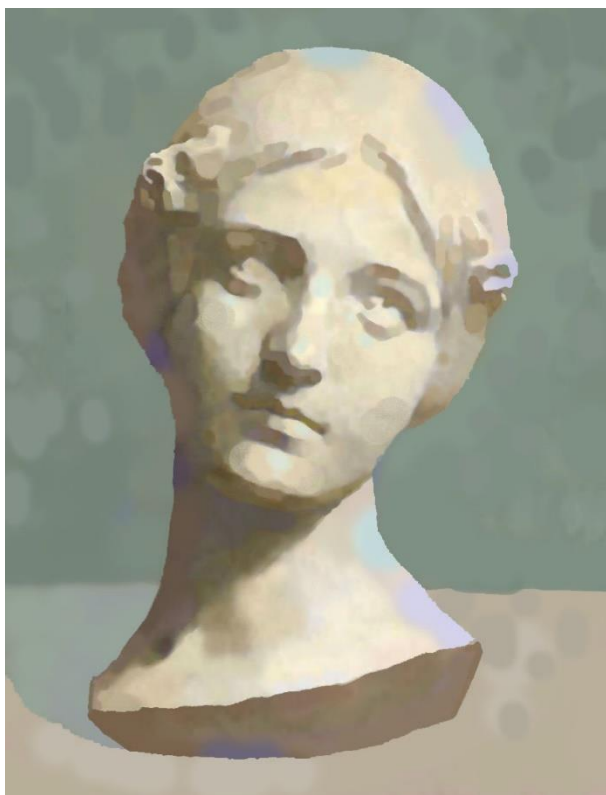
Heptachord f-sharp minor; 七声音阶，升 f 小调



Heptachord f-sharp minor, C major; 七声音阶，升 f 小调、C 大调



Heptachord f-sharp minor, A major; 七声音阶，升 f 小调、A 大调



Heptachord f-sharp minor; 七声音阶，升 f 小调



Heptachord f-sharp minor, A major; 七声音阶，升f小调、A大调



Heptachord f-sharp minor, A major; 七声音阶，升f小调、A大调

2、Jazz Scale;爵士音阶



Still life,Jazz Scale C major,e flat minor; 静物、爵士音阶 C 大调,降 e 小调



Still life, Jazz Scale,A major; 静物、爵士音阶 A 大调



Still life, Jazz pentatonic scale, f sharp minor; 静物、爵士五声音阶，升 f 小调



Still life, Jazz Scale, sharp minor-A major, f; 静物、爵士音阶，升 f 小调，A 大调



Still life, Jazz Scale g minor; 静物、爵士音阶 g 小调



Still life, Jazz Scale A major, f sharp minor; 静物、爵士音阶 A 大调, 升 f 小调



Still life, Jazz Scale F major; 静物、爵士音阶 F 大调



Still life, Jazz Scale C major; 静物、爵士音阶 C 大调



Still life, Jazz Scale b-flat minor; 静物、爵士音阶降 b 小调



Still life, Jazz Scale f-sharp minor; 静物、爵士音阶升 f 小调



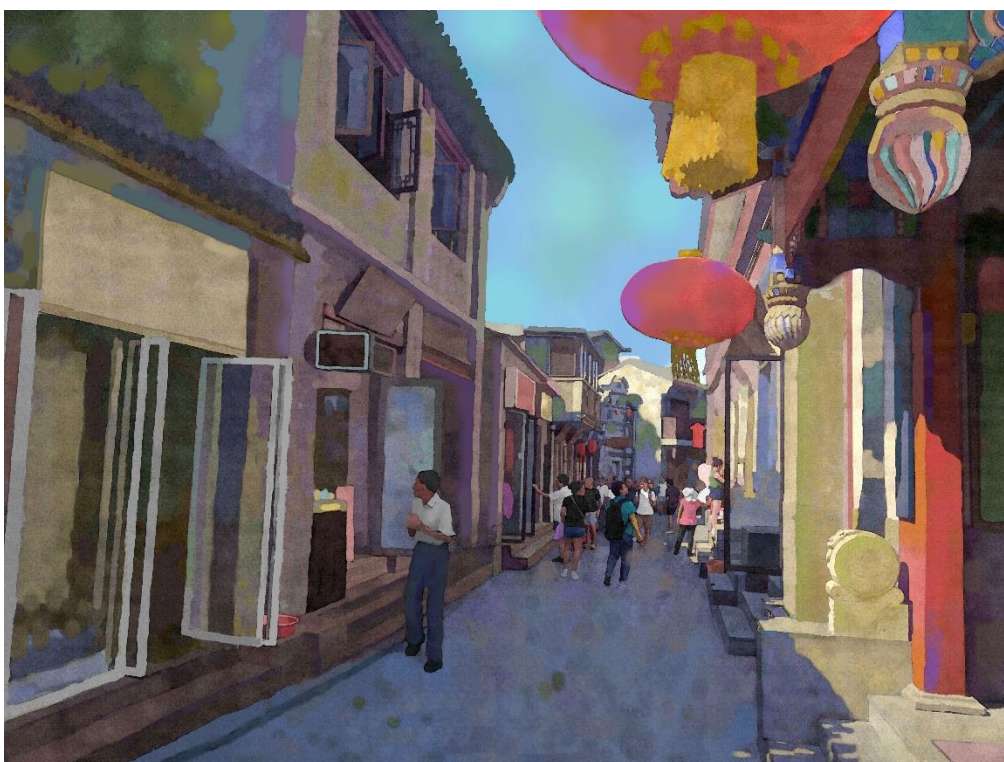
Still life, Jazz Scale d minor; 静物、爵士音阶 d 小调



Beijing hutong, Jazz Scale b minor; 北京胡同、爵士音阶 b 小调



Beijing hutong, Jazz Scale A major; 北京胡同、爵士音阶 A 大调



Beijing hutong, Jazz Scale C major; 北京胡同、爵士音阶 C 大调



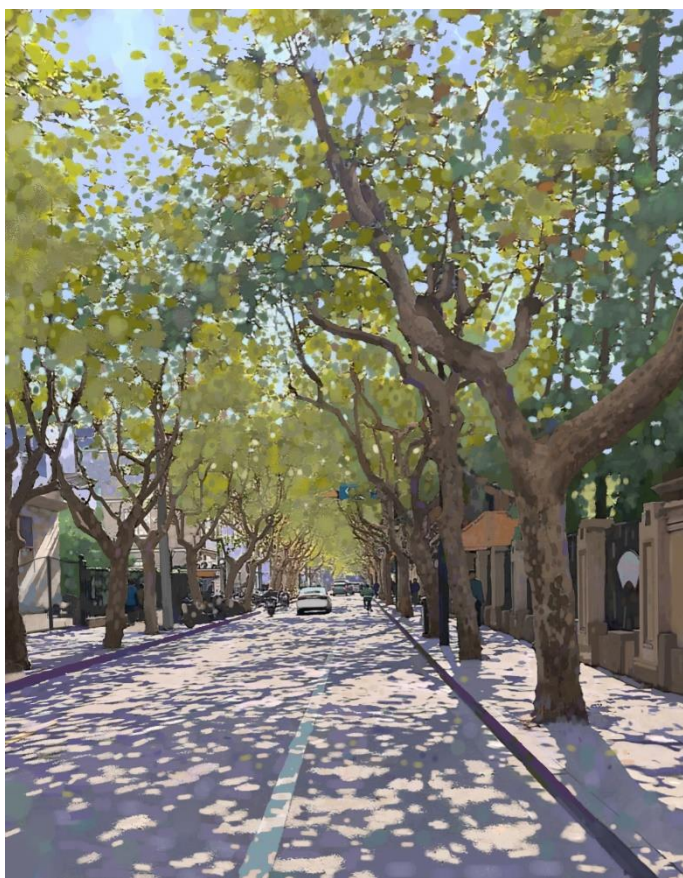
Beijing hutong, Jazz Scale f-sharp minor; 北京胡同、爵士音阶升 f 小调



Sun Zhongshan Former Residence in Shanghai, Jazz Scale C Major; 上海孙中山故居, 爵士音阶 C 大调



Sunshine in Shanghai, Jazz Scale in C Major; 上海的阳光，爵士音阶 C 大调



Shanghai Sinan Road, Jazz Scale A Major; 上海思南路，爵士音阶 A 大调



Cao Xueqin's Former Residence in Beijing, Jazz Scale A Major; 北京曹雪芹故居，爵士音阶 A 大调



Poplar forest, Jazz Scale A major; 白杨林、爵士音阶，A 大调



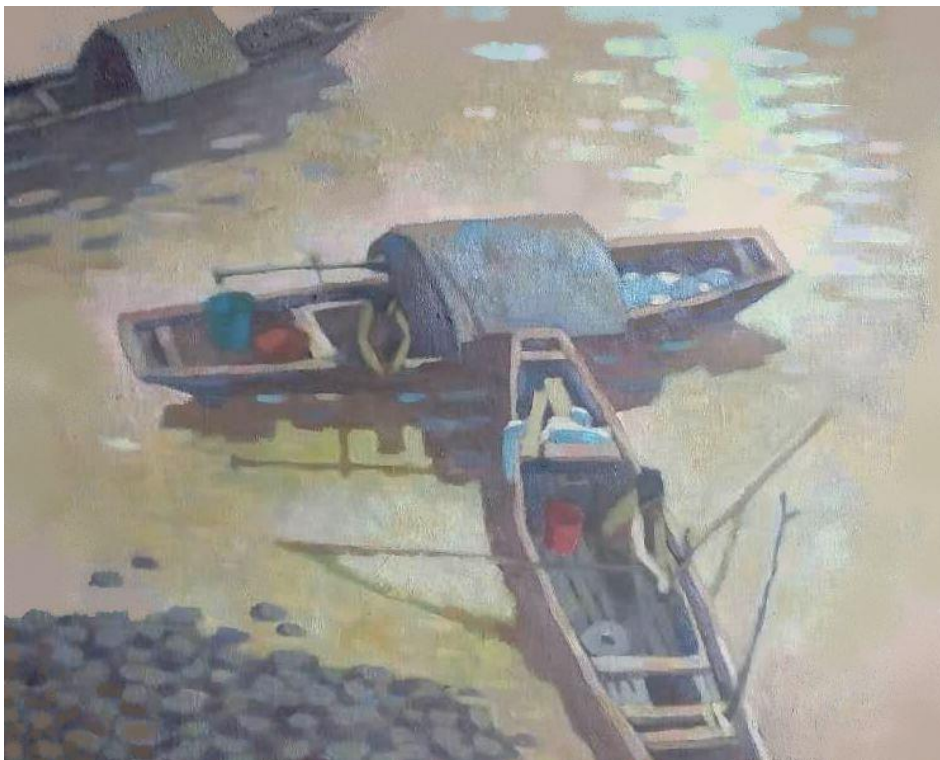
Poplar forest, Jazz Scale b minor; 白杨林、爵士音阶，b 小调



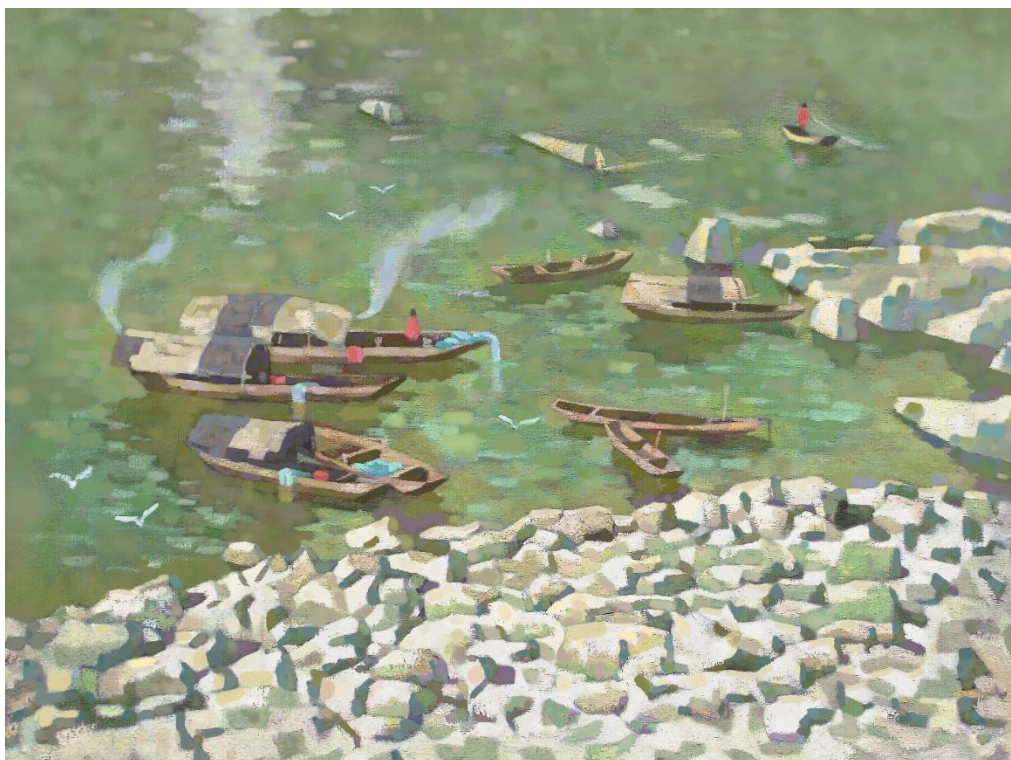
Poplar forest, Jazz Scale A major; 白杨林、爵士音阶，A 大调



Jinsha River Valley, Jazz Scale in g minor; 金沙江河谷，爵士音阶 g 小调



Fishing Boat, Jazz Scale in f sharp minor; 渔舟，爵士音阶，升 f 小调



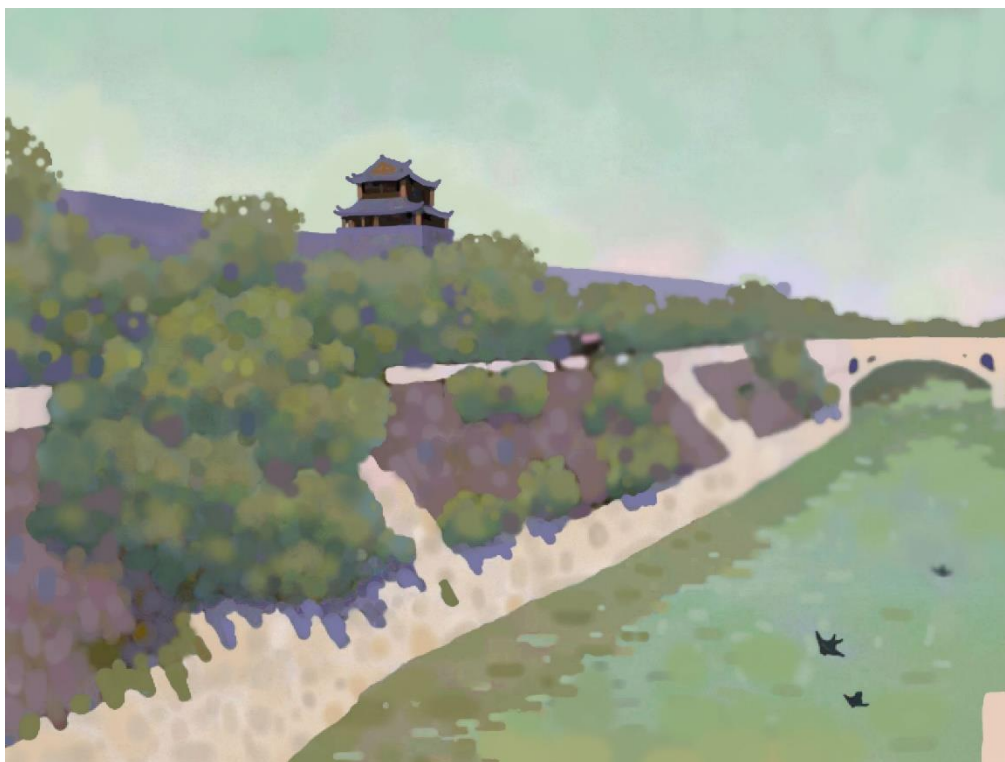
Riverside, Jazz Scale A flat major; 江边、爵士音阶, 降 A 大调



Xi 'an City Wall, Jazz Scale, F major; 西安城墙, 爵士音阶, F 大调



Xi 'an City Wall,Jazz Scale,g minor；西安城墙、爵士音阶 g 小调



Xi 'an City Wall, Jazz Scale,A major；西安城墙，爵士音阶，A 大调



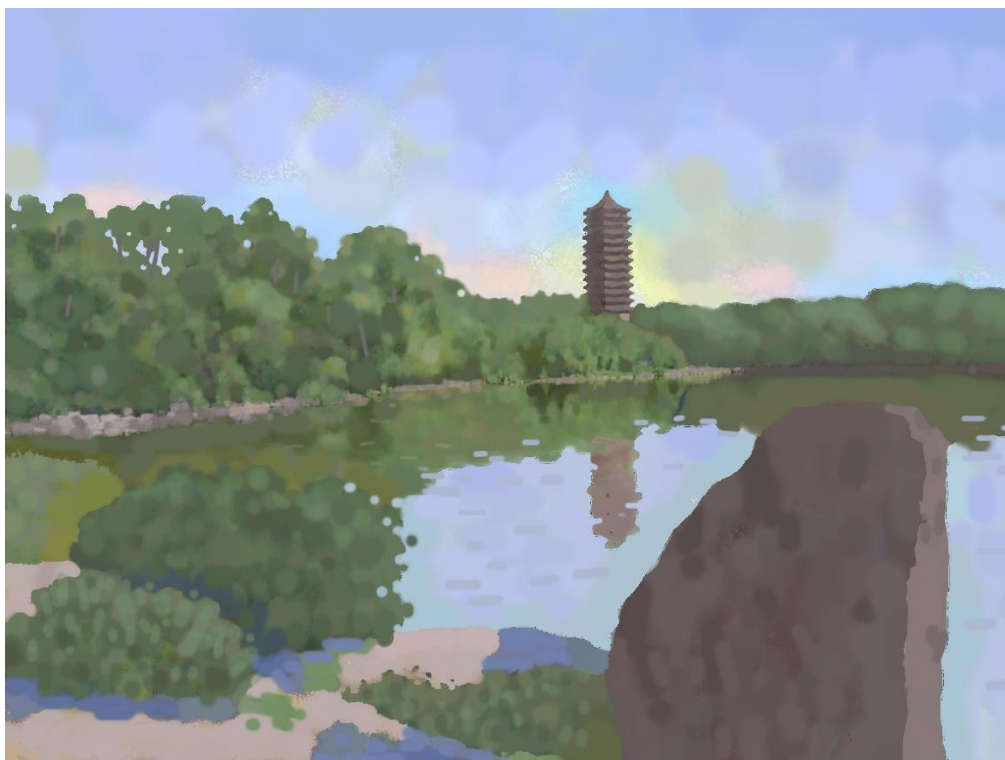
Xi 'an City Wall, Jazz Scale, F major; 西安城墙，爵士音阶，F 大调



Xi 'an City Wall, Jazz pentatonic scale, g minor; 西安城墙，爵士五声音阶，g 小调



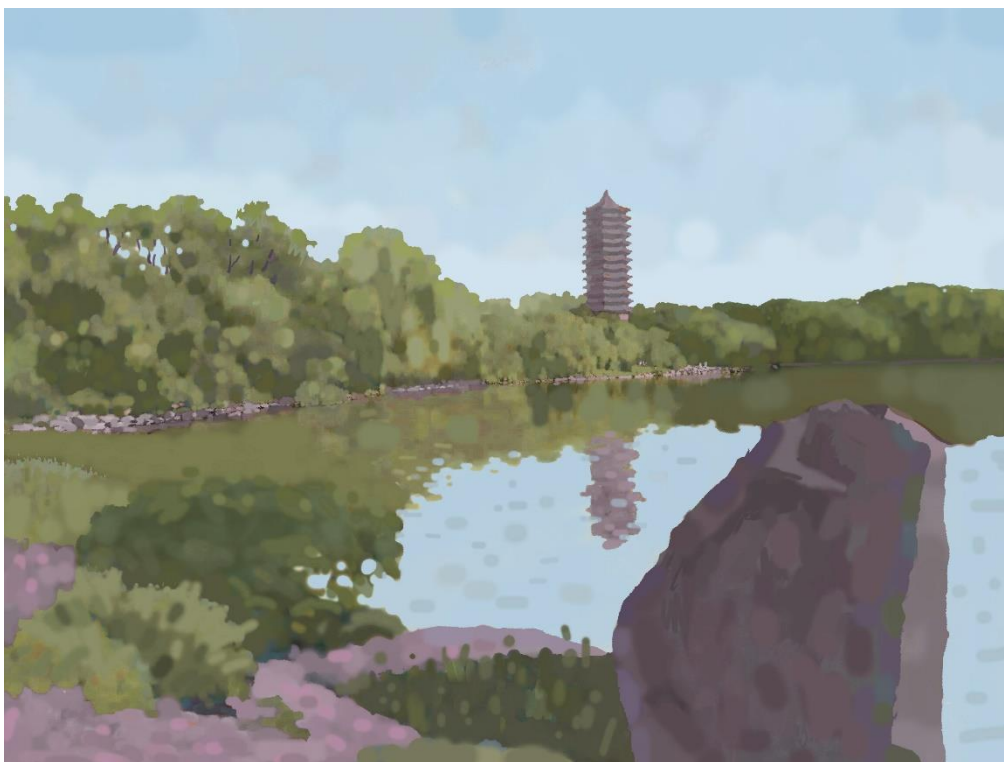
Unnamed Lake,,Jazz Scale,C major; 未名湖、爵士音阶 C 大调



Unnamed Lake, Jazz Pentatonic Scale in C Major; 未名湖、爵士五声音阶 C 大调



Unnamed Lake,,Jazz Scale,A flat major；未名湖、爵士音阶，降A大调



Unnamed Lake, Jazz Pentatonic Scale in e-flat Minor；未名湖、爵士五声音阶，降e小调



Lotus, Jazz Pentatonic Scale A flat minor; 荷，爵士音阶降 A 小调



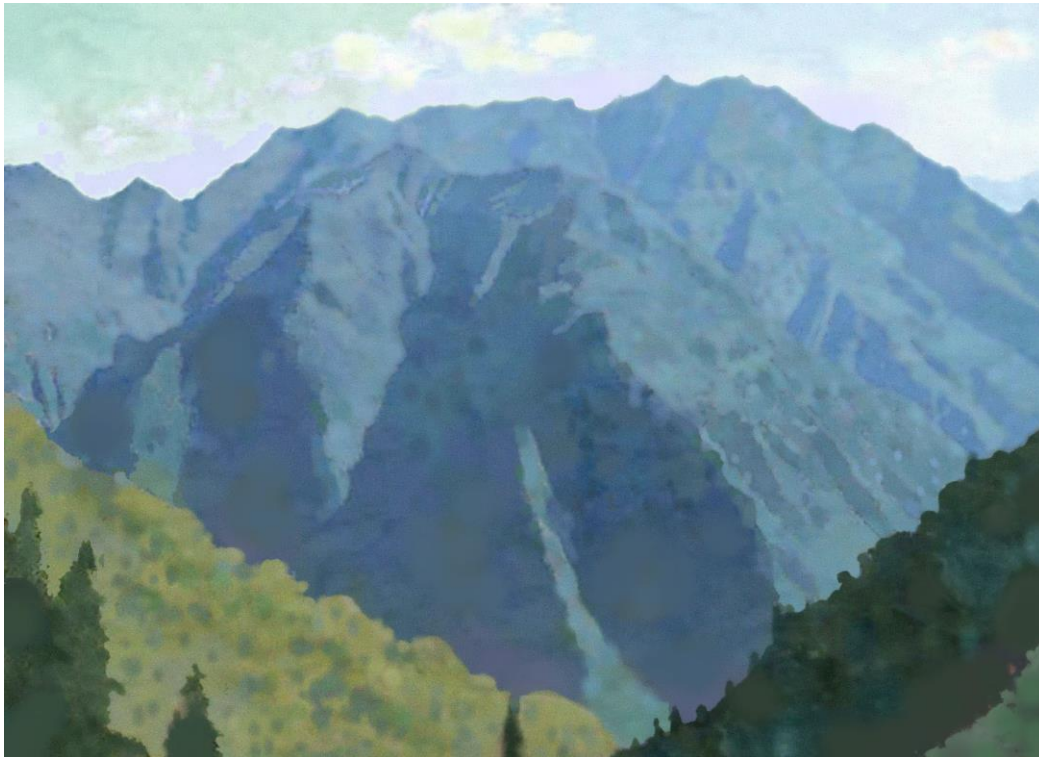
Dutch, Jazz Pentatonic Scale g minor; 荷、爵士五声音阶 g 小调



Canyon, Jazz Pentatonic Scale b minor; 峡谷、爵士五声音阶 b 小调



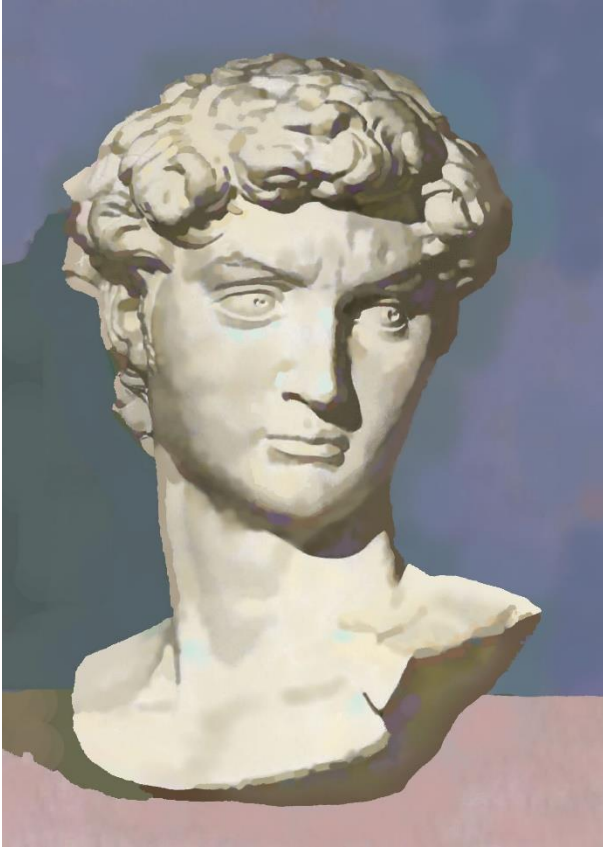
Ancient town, Jazz Scale in A-flat major, b minor; 古镇、爵士音阶，降 A 大调，b 小调



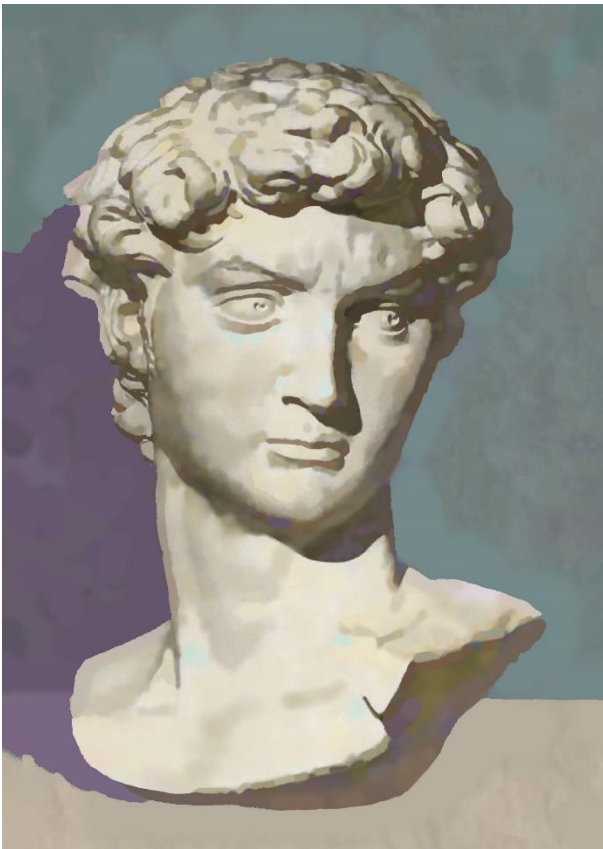
Mountain, Jazz scale b minor; 山、爵士音阶 b 小调



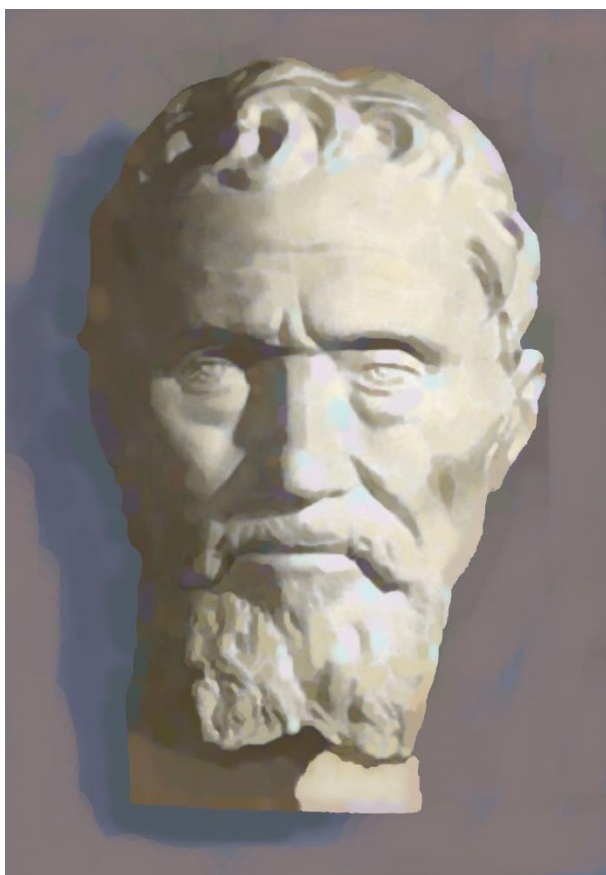
Self-portrait, jazz Pentatonic scales, F-sharp minor; 自画像，爵士五声音阶，升 f 小调



Jazz Scale C major,f-sharp minor；爵士音阶，C大调，升f小调



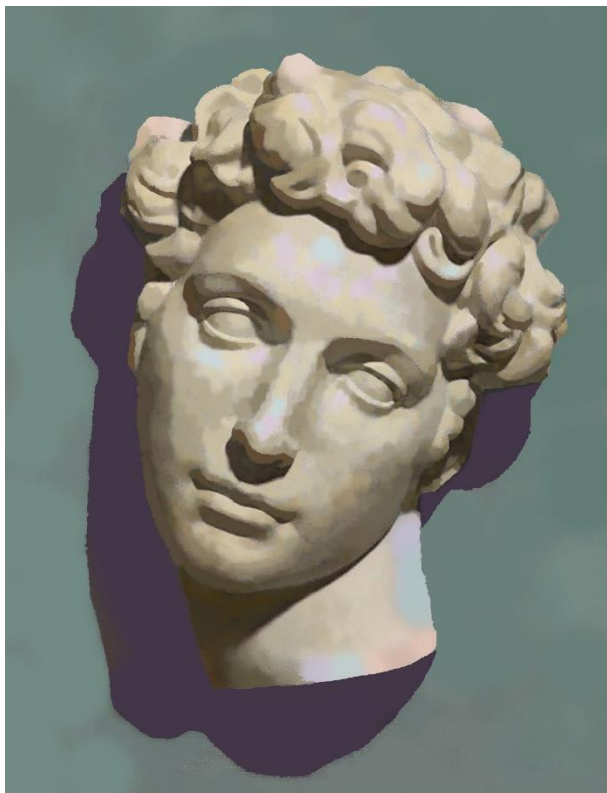
Jazz Pentatonic Scale f sharp minor；爵士五声音阶，升f小调



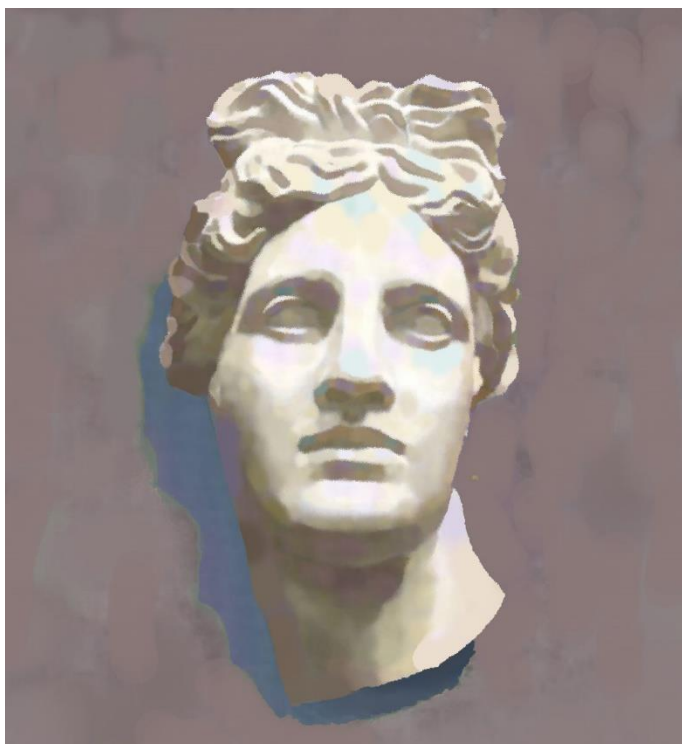
Jazz Scale,C major,f-sharp minor; 爵士音阶, C 大调, 升 f 小调



Plaster model,Jazz Scale C major, f sharp minor; 石膏像, 爵士音阶, C 大调, 升 f 小调



Plaster model,Jazz Pentatonic Scale, f-sharp minor; 石膏像，爵士五声音阶，升 f 小调



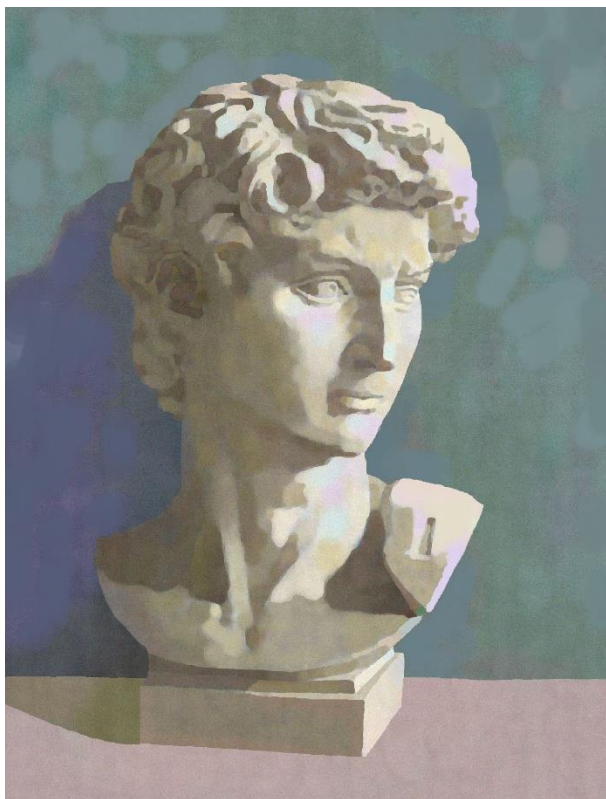
Plaster model,Jazz Scale C major, f sharp minor; 石膏像，爵士音阶，C 大调，升 f 小调



Plaster model,Jazz Scale C major, f sharp minor; 石膏像，爵士音阶，C 大调，升 f 小调



Plaster model,Jazz Pentatonic Scale,f sharp minor; 石膏像，爵士五声音阶，升 f 小调



Plaster model,Jazz Scale C major, f sharp minor; 石膏像，爵士音阶，C 大调，升 f 小调



Plaster model,Jazz Pentatonic Scale,f sharp minor; 石膏像，爵士五声音阶，升 f 小调



Plaster model,Jazz Scale f sharp minor,A major; 石膏像，爵士音阶，升 f 小调，A 大调



Plaster model,Jazz Scale f sharp minor,A major,F sharp-minor; 石膏像，爵士音阶，A 大调，升 f 小调

3、Atonal System;无调性系统



Still life, atonal system; 静物，无调性体系



Still life, atonal system; 静物，无调性体系



Still life, atonal system; 静物，无调性体系



River valley, atonal system; 河谷，无调性体系



Fishing boat, atonal system; 渔舟，无调性体系



Lotus, atonal system; 荷花，无调性体系



Plaster statue, atonal system; 石膏像，无调性体系



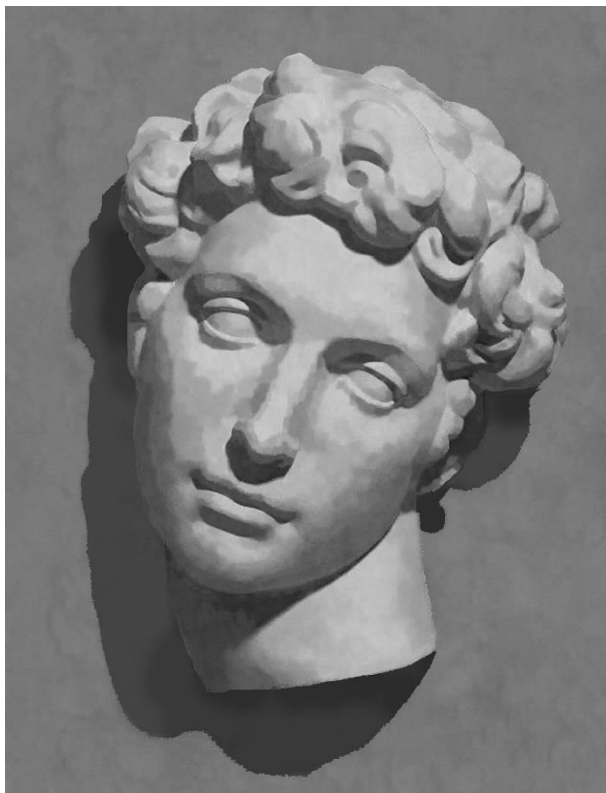
Plaster statue, atonal system; 石膏像，无调性体系



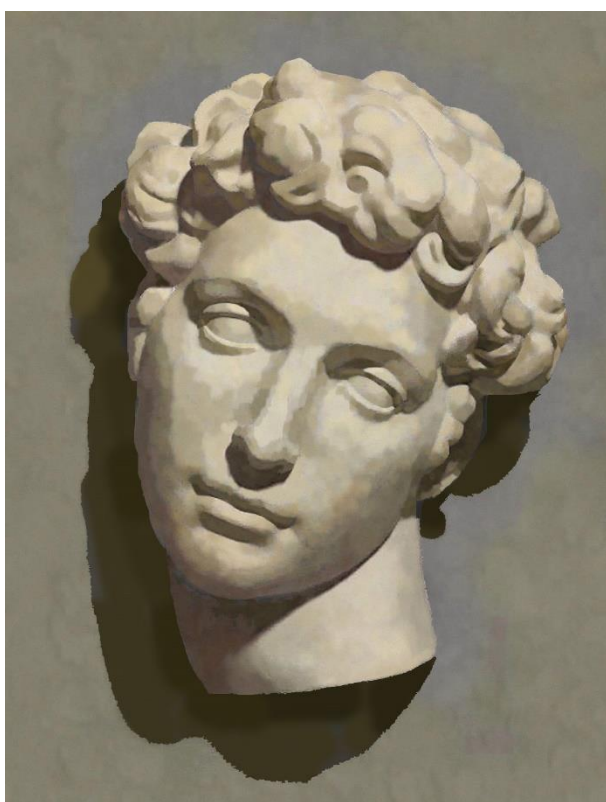
Plaster statue, atonal system; 石膏像，无调性体系



Plaster statue, atonal system; 石膏像，无调性体系



Plaster statue, atonal system; 石膏像，无调性体系



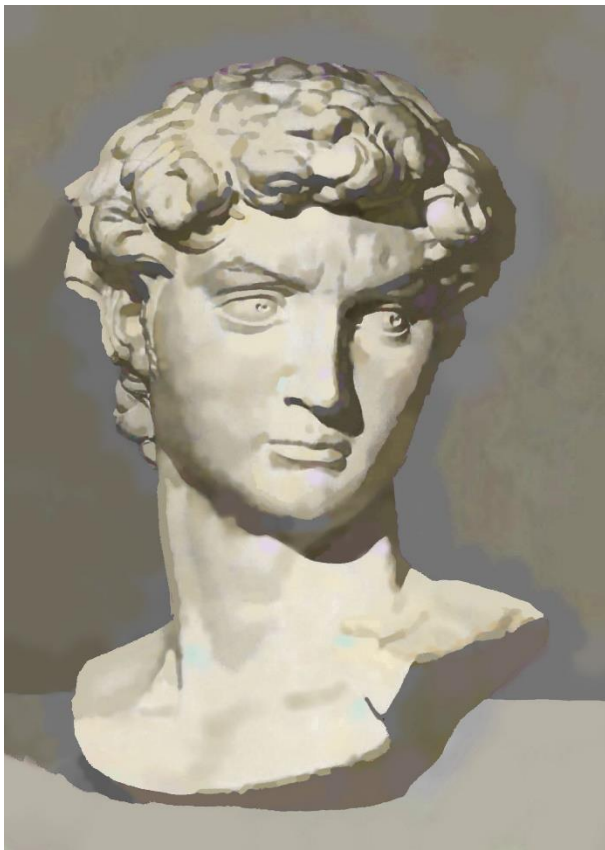
Plaster statue, atonal system; 石膏像，无调性体系



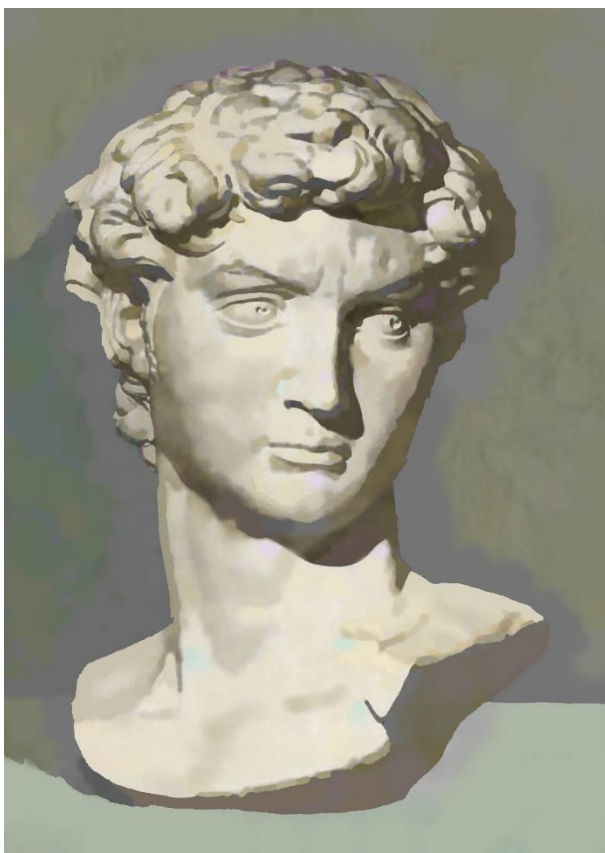
Plaster model, Atonal system: 石膏像、无调性体系



Plaster model, Atonal system: 石膏像、无调性体系



Plaster model, Atonal system; 石膏像、无调性体系



Plaster model, Atonal system; 石膏像、无调性体系

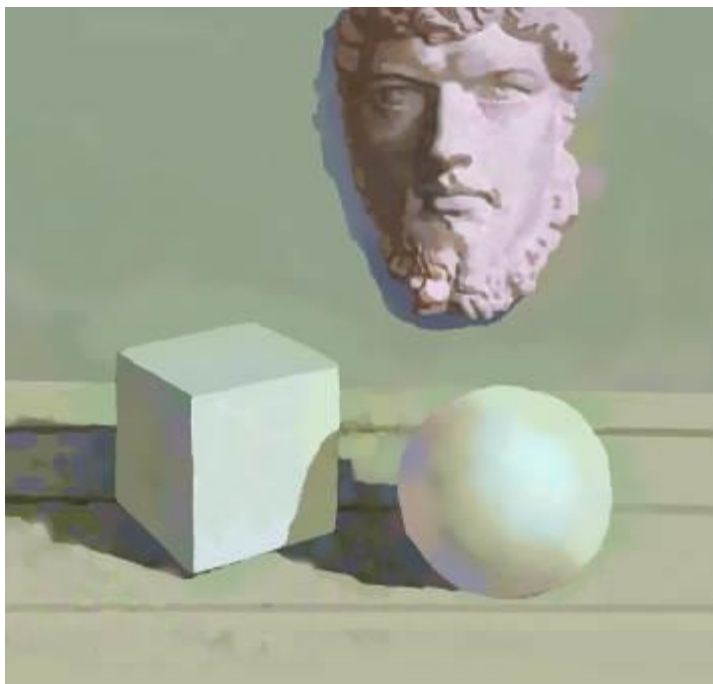
4、Transpose；转调



Plaster model B-E-C,key group；石膏模型、B-E-C 调群



Plaster model,H-D,key group；石膏模型、B-E 调群



Plaster model,H-D,key group；石膏模型、B-C 调群



Heptachord-Jazz Scale compatible, B-E key group;七声音阶-爵士音阶兼容，B-E 调群



Still life, B-E-C, key group; 静物、B-E-C 调群



Gypsum model, B-A key group abnormal solved; 石膏模型、B-A 调群反常解决



Gypsum model, B-C#key group abnormal solved; 石膏模型、B-C# 调群反常解决



Heptachord C major,#F minor+T-D-S ,Transpose; 七声音阶，C 大调、bE 小调+T-D-S 转调



Heptachord C major,#F minor+T-D-S ,Transpose: 七声音阶, C 大调、bE 小调+T-D-S 转调



C major,#F minor+T-D-S ,Transpose: C 大调、bE 小调+T-D-S 转调

Brief Summary; 小结

和弦是时空，生命，精神的物理形式，宇宙统一于和弦。

Chords are the physical forms of space-time, life, and spirit, and the universe is unified in chords.

我们在音乐，绘画中观察到和弦，和弦场，根据和弦语义定性为时空场。

We observe chords, chord fields, in music, paintings, which are characterized as space-time fields according to chord semantics.

我们在人体上也观察到和弦，和弦场，形式是经络（脉轮）系统，与音乐，绘画具有相同的物理、数学形式，它是时空场的组成部分，特别是：音符的正-负属性继承自经络，它是和弦最重要的物理属性。

We also observe in the human body that the chord, the chord field, the form is the meridian (chakra) system, which has the same physical and mathematical form as music and painting, and it is an integral part of the space-time field, in particular: the positive and negative properties of the note are inherited from the meridian, which is the most important physical property of the chord.

如果没有比和弦场，时空场更基本的作用，它就是所有时空事件的底层作用与法则。

If there is no more fundamental function than the chord field and the space-time field, it is the underlying function and law of all space-time events.

和弦观察具有主体间性，不同于主-客观察，会涉及科学范式问题。

Chord observation is intersubjective, which is different from subject-guest observation and involves scientific paradigm.

本书的内容将会继续观察，修正，更新，欢迎关注。

The content of this book will continue to be observed, revised, updated, welcome attention.

声明；Disclaimer

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Harmonics；和声学

General Physics；普通物理学

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