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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

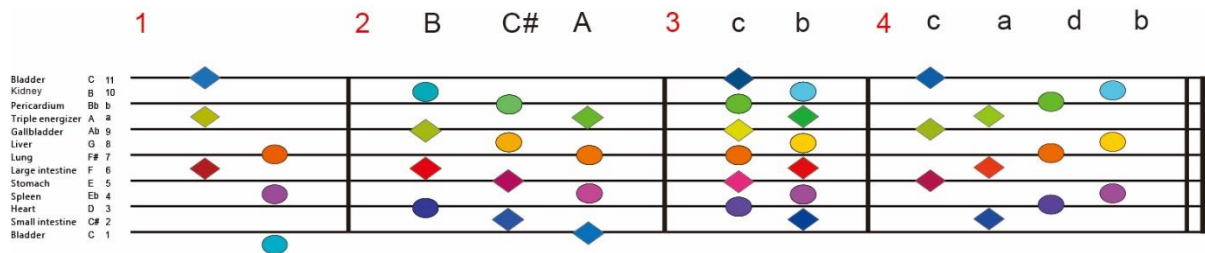
Papers of the XXV World Congress of Philosophy

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

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

和弦产生时空，生命，精神等，宇宙基于和弦。

Chords produce space-time, life, spirit, etc., and the universe is based on chords.



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，时空场，音乐，绘画，生命，量子，弦理论，经络

Key words: chord field, space-time field, music, painting, life, quantum, string theory, meridians

Chord Space And Painting;和弦空间与绘画

音乐、绘画是其最常见的和弦语言现象，具有相同的物理（量子化频谱），数学形式，分别表达时间、空间及其镜像关系，也是和弦场（时空场）的常见形式。

Music and painting are the most common chord language phenomena. They have the same physical (quantized spectrum) and mathematical forms, respectively expressing time, space and their mirror relationship. They are also common forms of chord fields (space-time fields).

弦是和弦的空间（几何）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作用。

Strings are the spatial (geometric) semantics of chords, and chords are the characteristic spectrum of strings: Different chords contain different spatial semantics: Major triad = closed string (contour line), minor triad = open string (facet line), Proportional sequence chords = membrane string (non-linear space), the three kinds of strings constitute the space field (spatial language), generating all spatial states and effects.

和弦包含空间编码，语义与逻辑，分布为和弦场（空间场），绘画是和弦（量子）空间的常见形式。

Chords contain spatial coding, semantics and logic, distributed as chord fields (spatial fields), and painting is a common form of chord (quantum) space.

参阅：和弦空间与绘画：See also: Chord Space And Painting:

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

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（时空场），后者是相对性经验与概念，两者是完全不同的宇宙观。

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 (space-time field), the latter is the relative experience and concept, the two are completely different cosmological views.

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，和弦均有 \pm 属性，是频率的物理属性，也是场的属性。

Notes and chords all have \pm properties, which are physical properties of frequency and also properties of the field.

和弦包含时空编码，语义与逻辑，分布为和弦场（时空场），音乐、绘画是和弦（量子）时空的常见形式。

Chords contain space-time coding, semantics and logic, and are distributed as chord fields (space-time fields). Music and painting are common forms of chord (quantum) space-time.

Chord Biology;和弦生命

人类观察到两种生命形式：和弦（量子化频谱，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二层存在。

Humans observe two forms of life: chords (quantized spectrum, strings) and organisms (cells, molecules, etc.), which come from chord observers (self-observers) and non-chord observers (external observers), respectively, and life is a two-layer existence of chord and organisms.

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（Equal Temperament），与音乐，绘画共同基于和弦数学模型，表现为：和弦编码，和弦场（生命场）。

Chords are manifested in the human body as a system of meridians (chakras) from the self-observation

of chord observers; The twelve meridians have the characteristic frequency of stimulated response, and the distribution is: twelve Equal Temperament, which is based on the mathematical model of chord with music and painting, and is represented as chord field (life field).

经络（脉轮）是生命的和弦形式，也是自我（Atman）的和弦形式，自我（Atman）是生命本体，相对独立于生物体，服从和弦场的自然法则，其生-死是移调（Transpose）事件，其终极目的是永生。

Meridians (chakras) are the chord form of life and also the chord form of self (Atman). Self (Atman) is the life entity, relatively independent of the organism, and obeys the natural laws of the chord field. Its birth and death are transpose events, and its ultimate goal is immortality.

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（自观察者）与非和弦观察者（外观察者），由此产生两种认识体系：和弦体系，如：音乐、绘画、经络、宗教等；非和弦体系，如：科学、哲学等——前者服从和弦语义逻辑，后者服从符号语义逻辑。

Human cognition comes from two kinds of observers: chord observers (self-observers) and non-chord observers (external observers), resulting in two systems of cognition: chord systems, such as music, painting, meridians, religion, etc., and non-chord systems, such as science, philosophy, etc., the former obeys chord semantic logic, and the latter obeys symbolic semantic logic.

和弦表现为物理事件（离散频谱，时空），生命事件（经络），精神事件（音乐，绘画），都基于和弦数学，和弦统一宇宙。

Chords are represented as physical events (discrete spectrum, space-time), life events (meridians), and spiritual events (music, painting), all based on chord mathematics, and chords unify the universe.

和弦语义来自和弦（量子）频谱，是自然精神与意志，音乐，绘画是其常见形式。

Chord semantics comes from the chord (quantum) spectrum, which is the natural spirit and will, and 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).*

目录

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NATURAL SPIRIT;自然精神

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BRIEF SUMMARY; 小结

声明; DISCLAIMER

REFERENCES; 参考文献

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



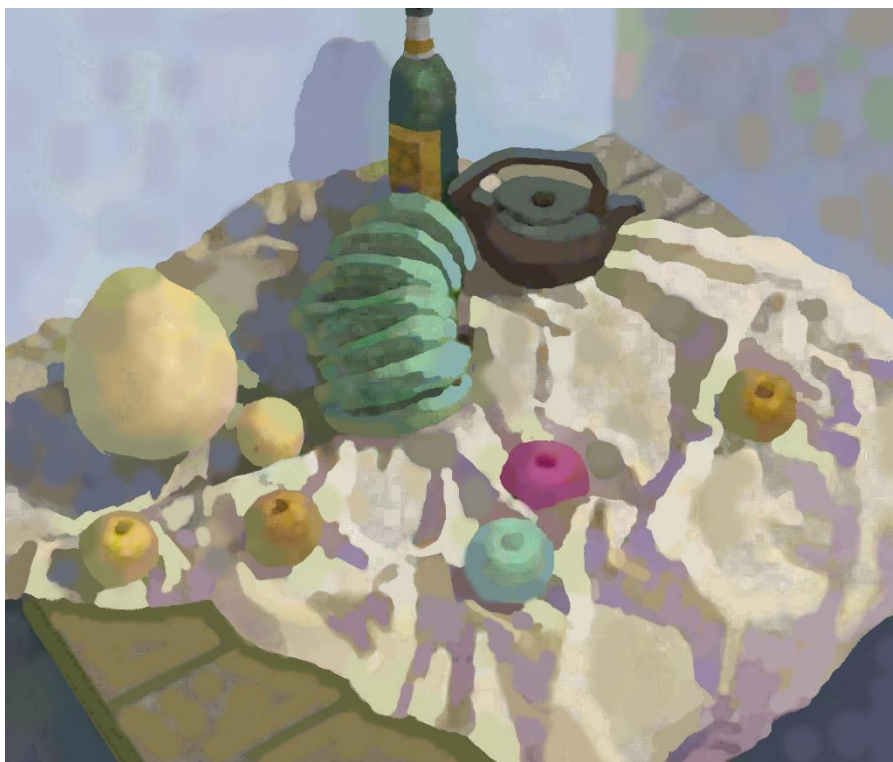
Still life, Heptachord, C major; 静物、七声音阶，C 大调



Still life, Heptachord 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



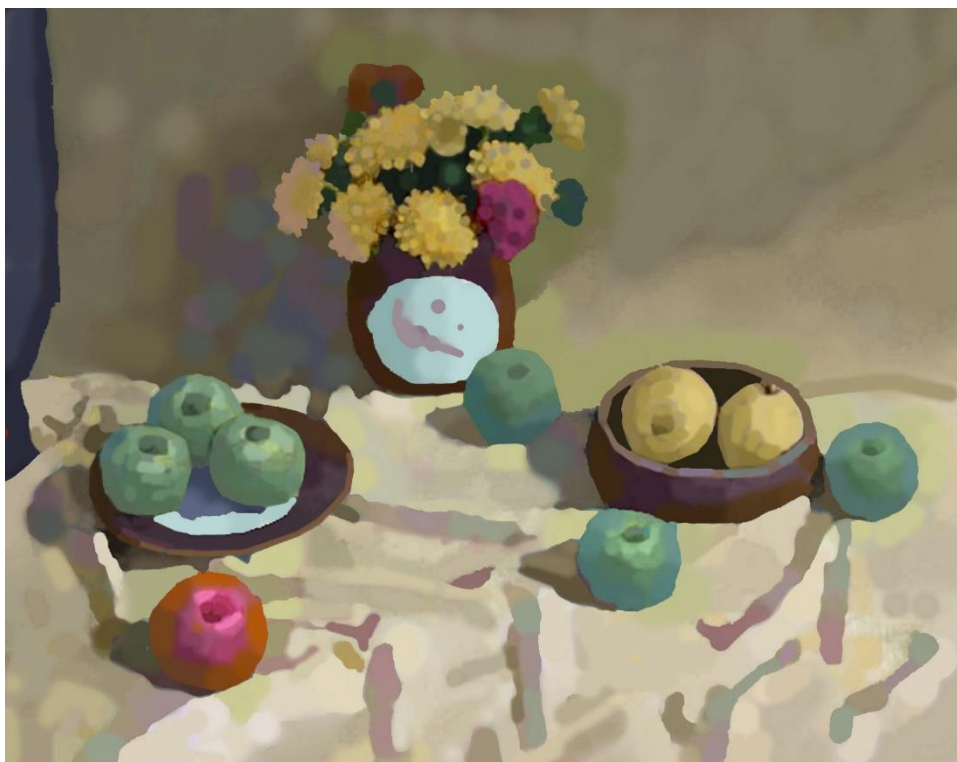
Still life, Heptachord A-flat major, b minor; 静物、七声音阶，降A大调、b小调



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，升 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



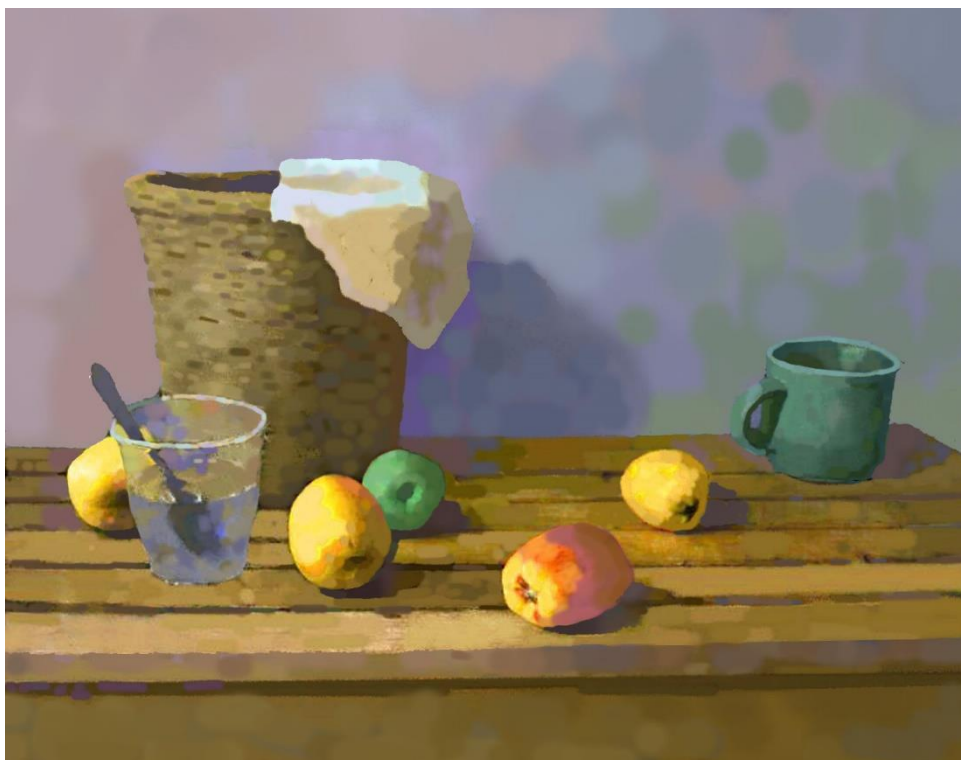
Still life, Heptachord, f sharp minor; 静物、七声音阶，升 f 小调



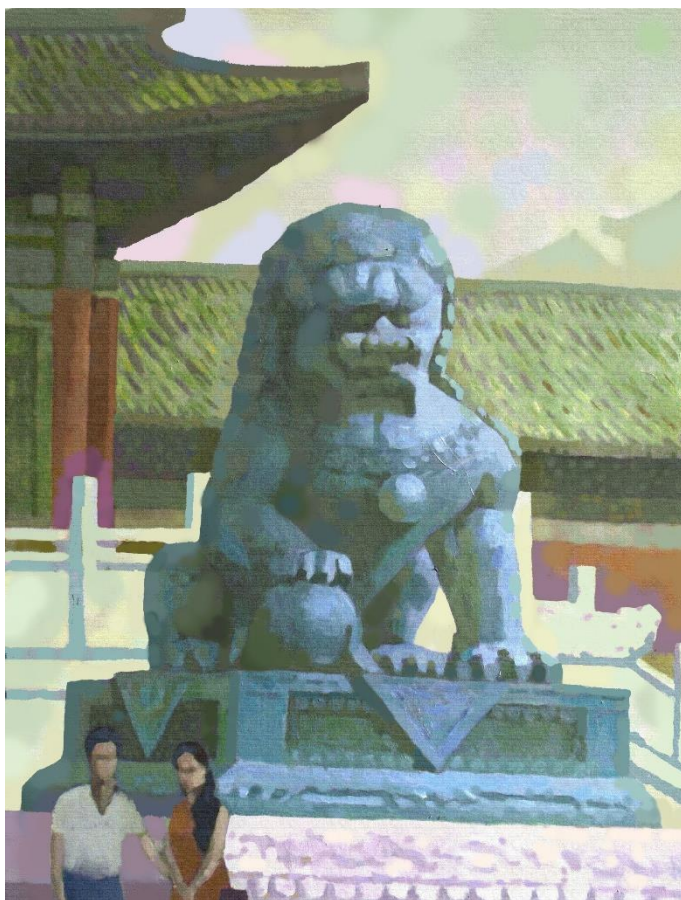
Still life, Heptachord C sharp major, b flat minor; 静物、七声音阶，升 C 大调、降 b 小调



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



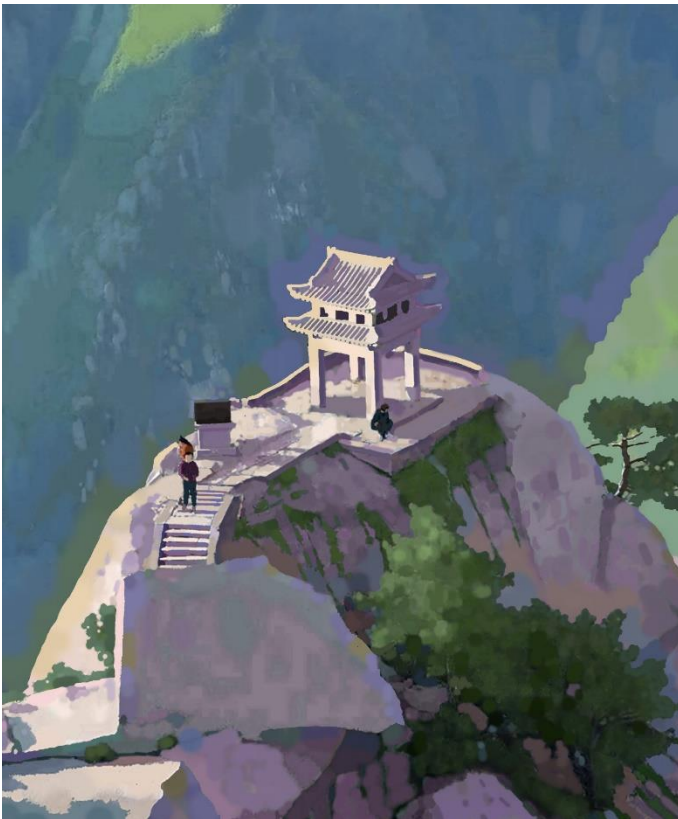
Still life, Heptachord A major, f sharp minor; 静物、七声音阶，A 大调、升 f 小调



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



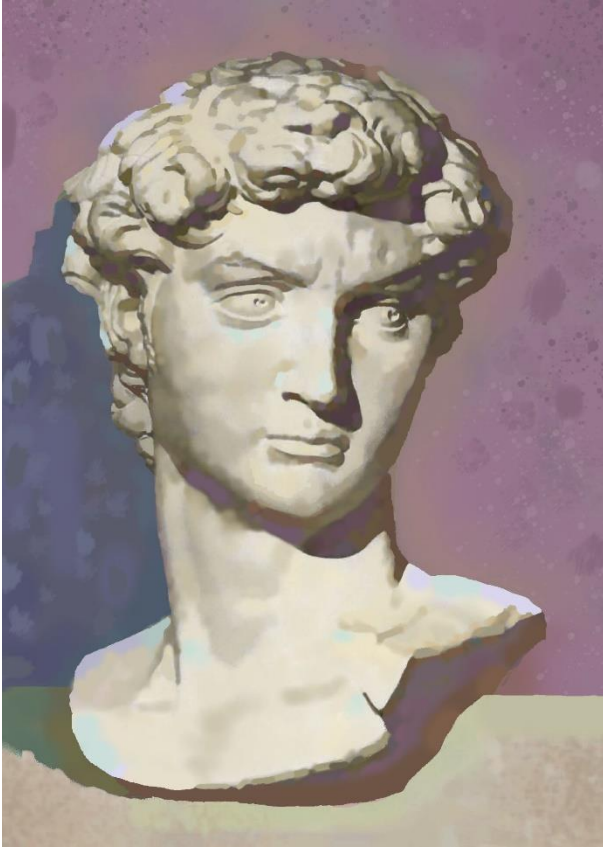
Portrait, heptachord A flat major, b minor; 肖像，七声音阶，降A大调、b小调



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



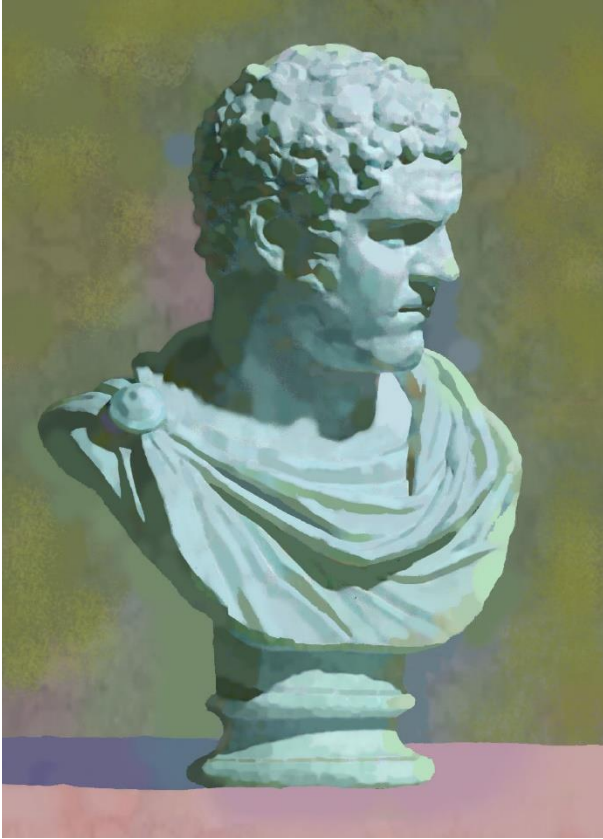
Self-portrait. heptachord A flat major, d minor; 自画像，七声音阶，降A大调、d小调



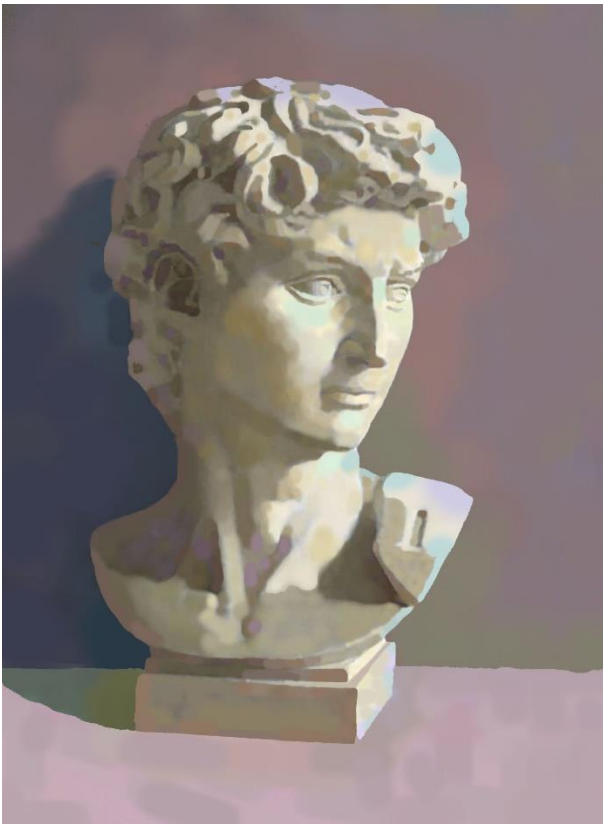
Heptachord C major, f sharp minor; 七声音阶，C 大调、升 f 小调



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



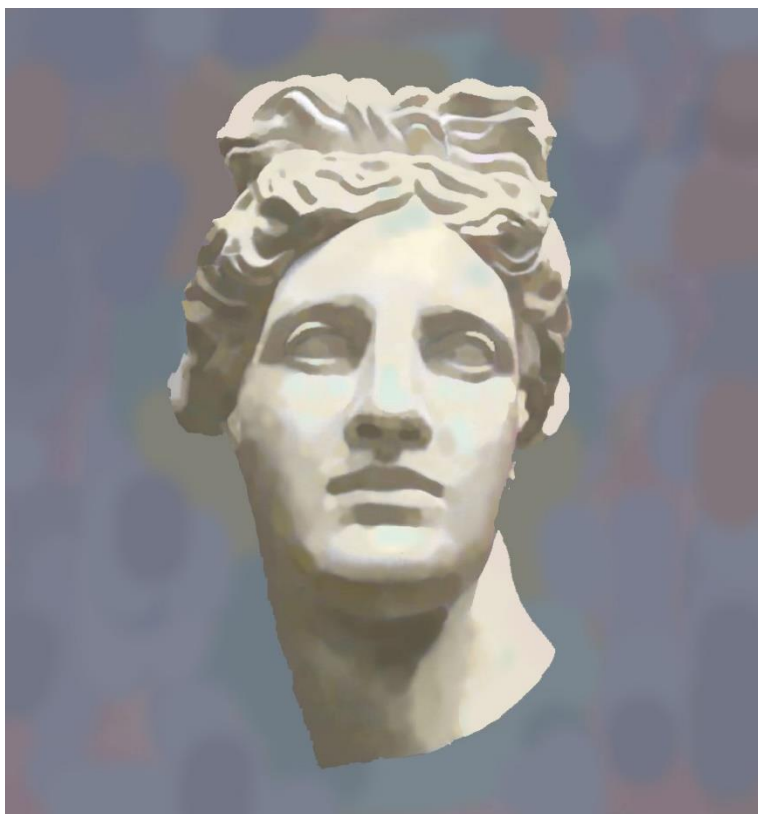
Heptachord f flat minor, C major; 七声音阶，升 f 小调、C 大调



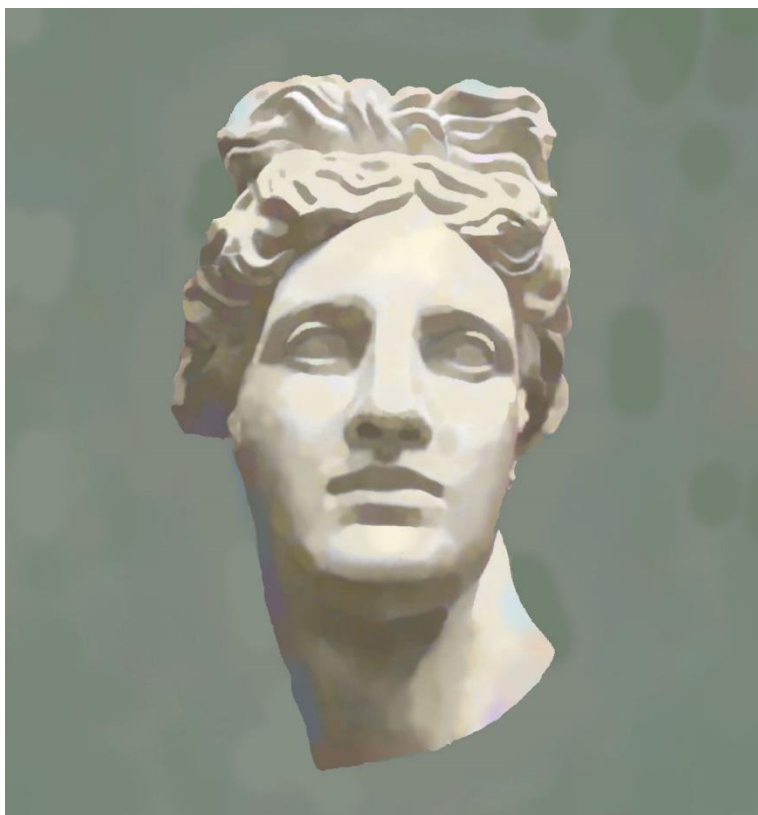
Heptachord f sharp minor, C major; 七声音阶，升 f 小调、C 大调



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



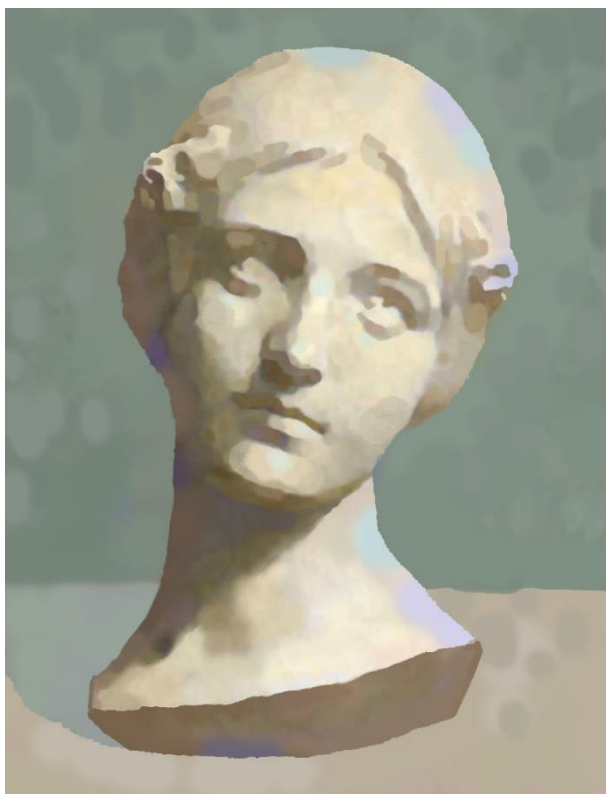
Heptachord f-sharp minor; 七声音阶，升 f 小调



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 Pentatonic Scale,A major; 静物、爵士五声音阶 A 大调



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



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



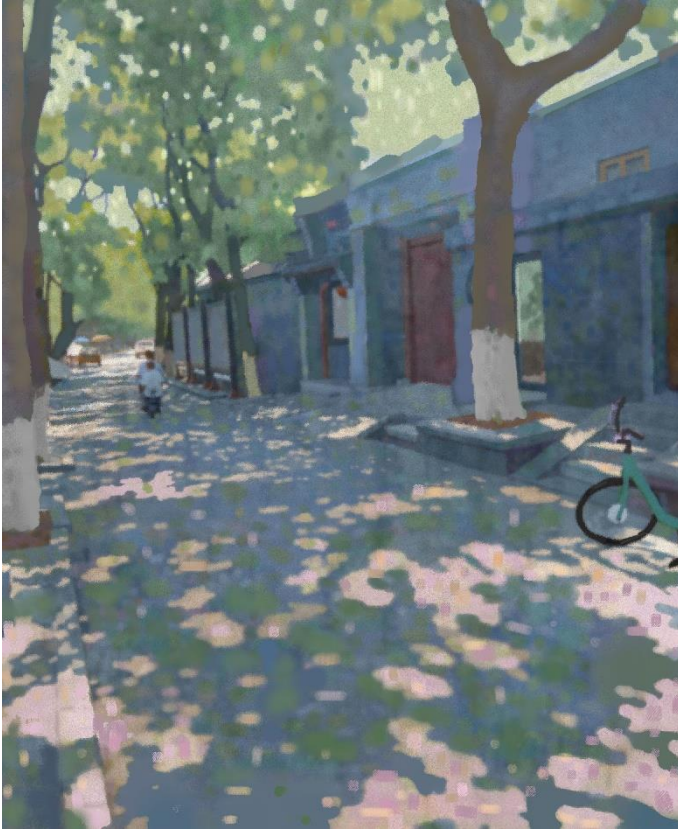
Still life,Jazz Scale b-flat minor; 静物、爵士音阶降 b 小调



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 major; 北京胡同、爵士音阶升 f 小调



Jazz Scale A major; 爵士音阶 A 大调



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



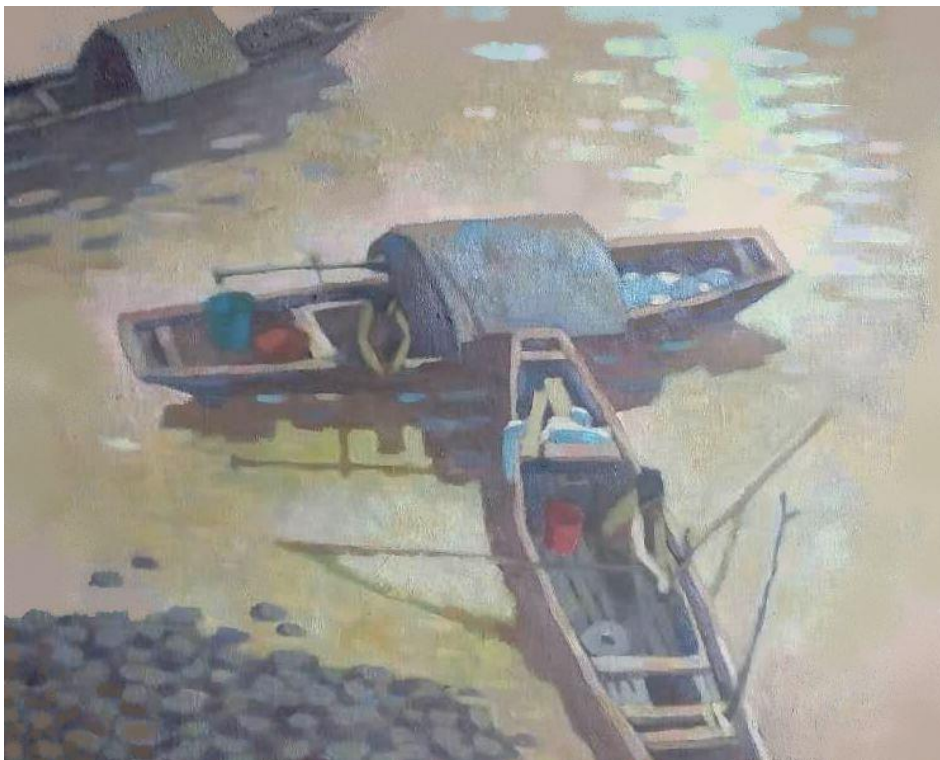
Poplar forest, Jazz Scale b minor; 白杨林、爵士音阶，b 小调



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



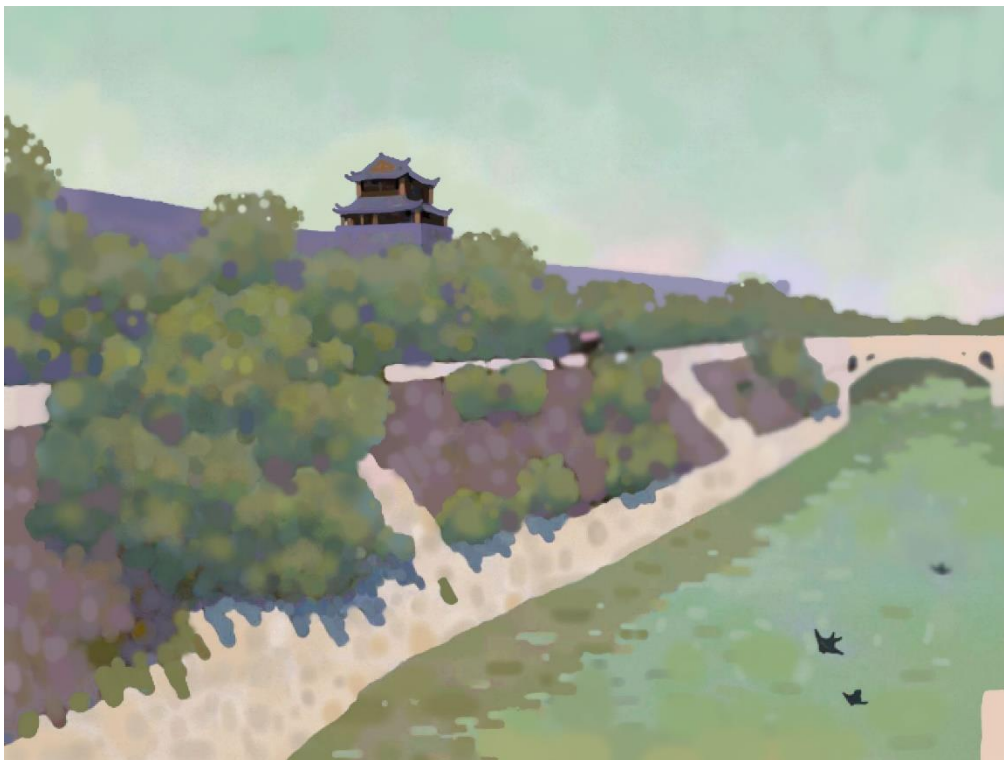
Riverside, Jazz Scale A flat major; 江边、爵士音阶，降A大调



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



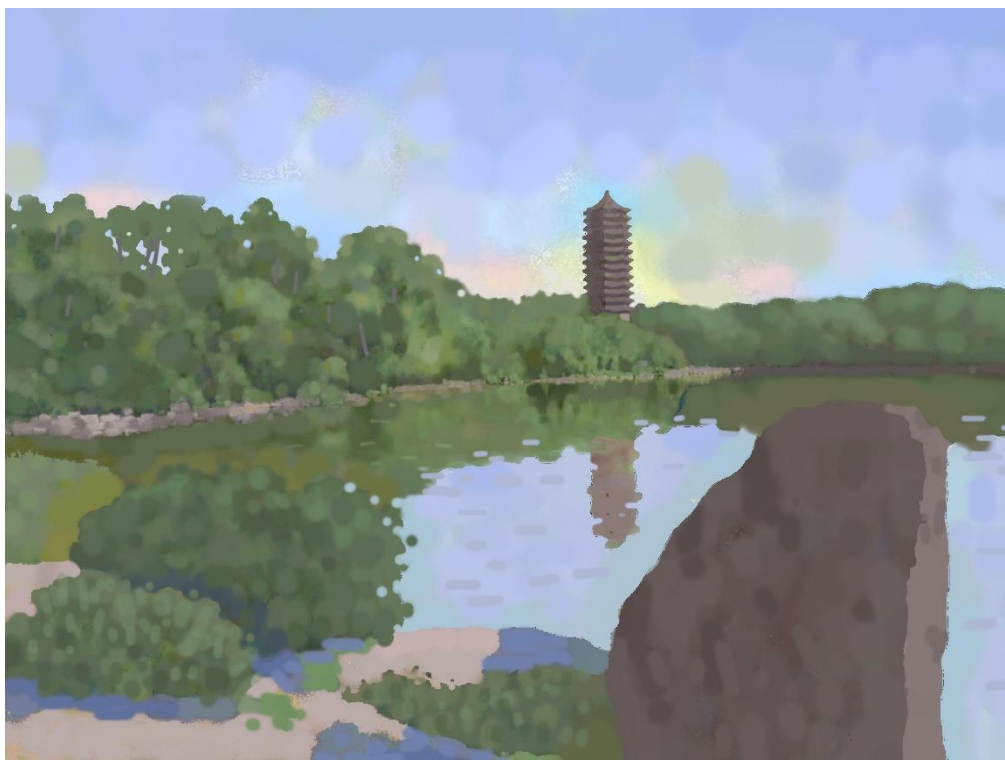
Xi 'an City Wall, Jazz Scale, F major; 西安城墙，爵士音阶，F 大调



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



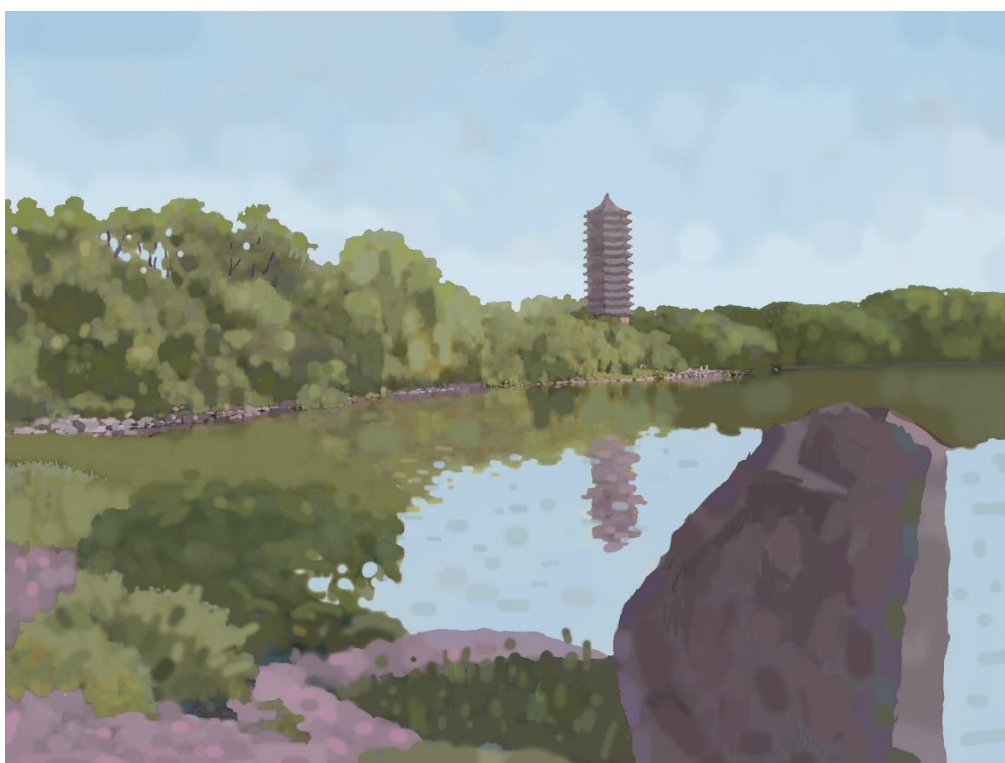
Unnamed Lake,,Jazz Scale,C major; 未名湖、爵士音阶 C 大调



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



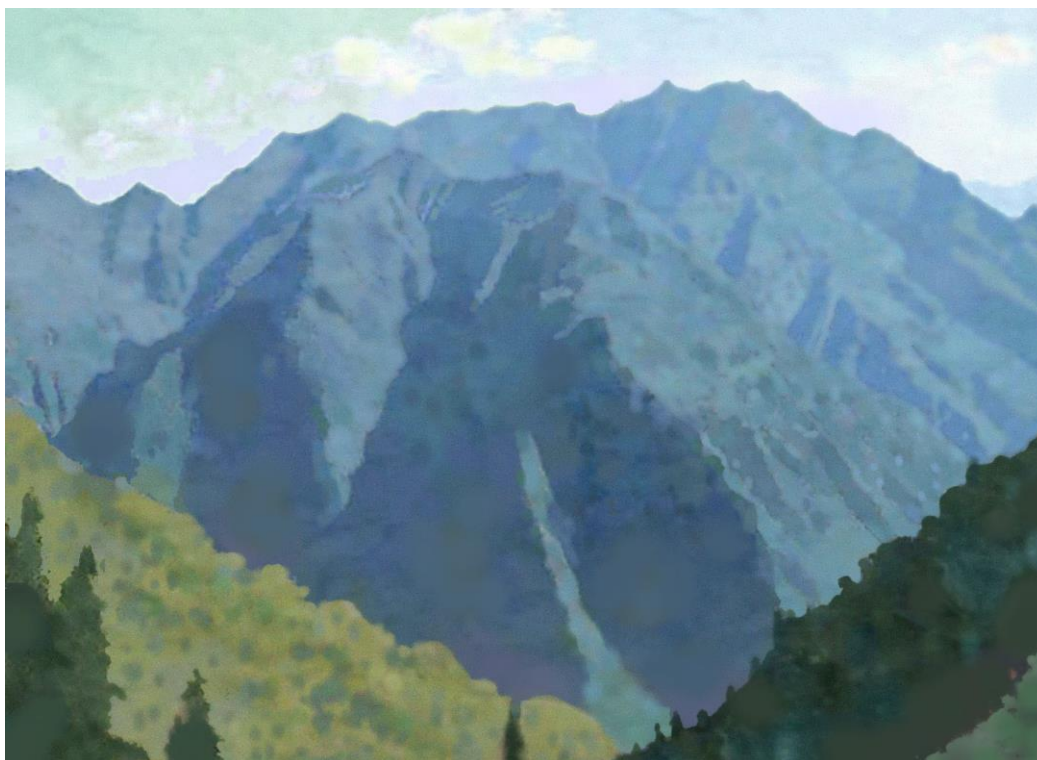
Dutch, Jazz Pentatonic Scale g minor; 荷、爵士五声音阶 g 小调



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



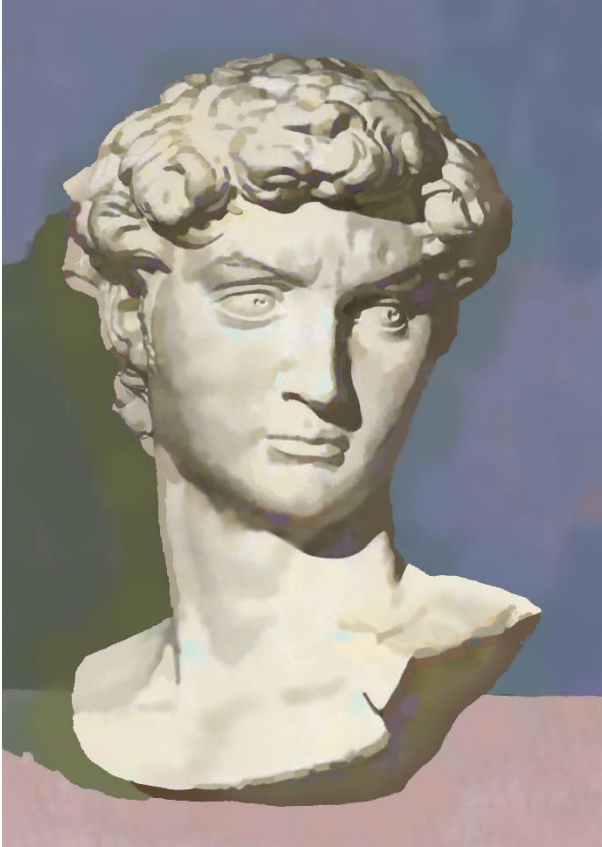
Ancient town, Jazz Scale in A-flat major, b minor; 古镇、爵士音阶，降 A 大调，b 小调



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



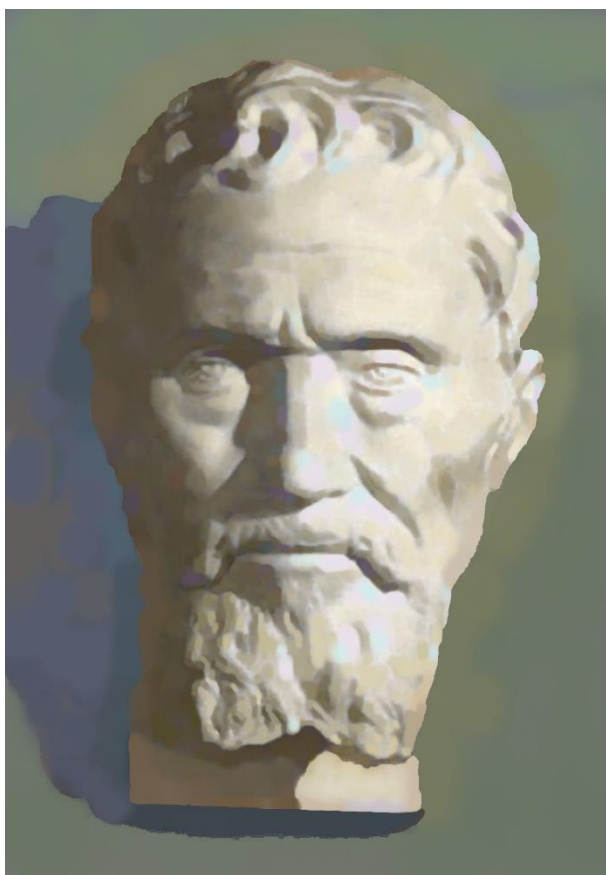
Self-portrait, jazz Pentatonic scales, F-sharp minor; 自画像，爵士五声音阶，升 f 小调



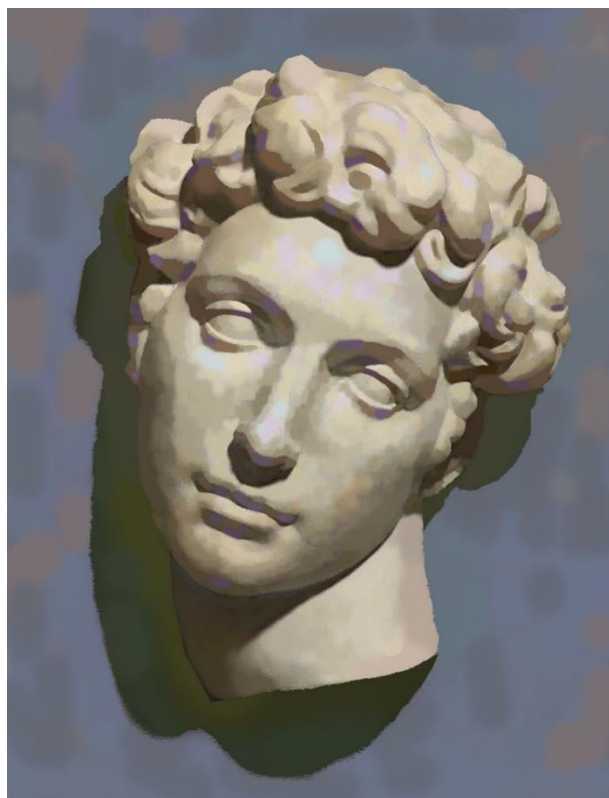
Jazz Scale C major,f-sharp minor；爵士音阶，C大调，升f小调



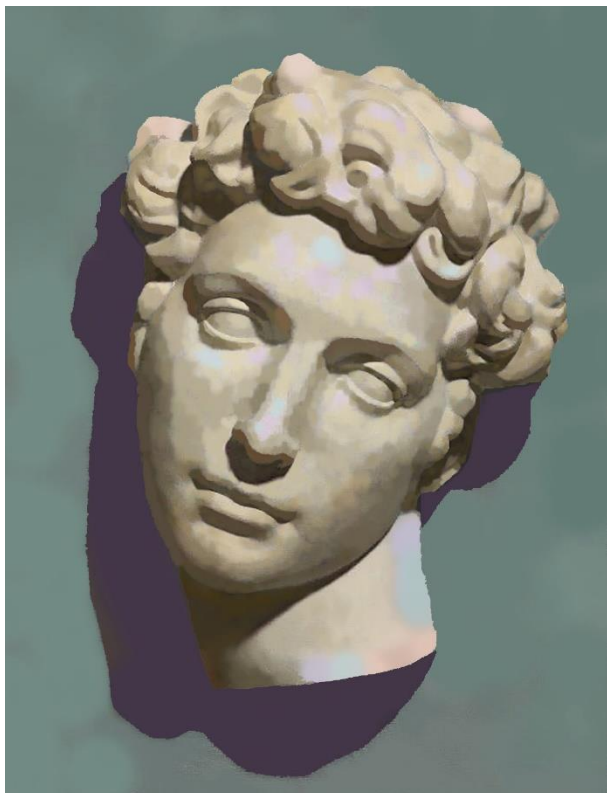
Jazz Pentatonic Scale f sharp minor；爵士五声音阶，升f小调



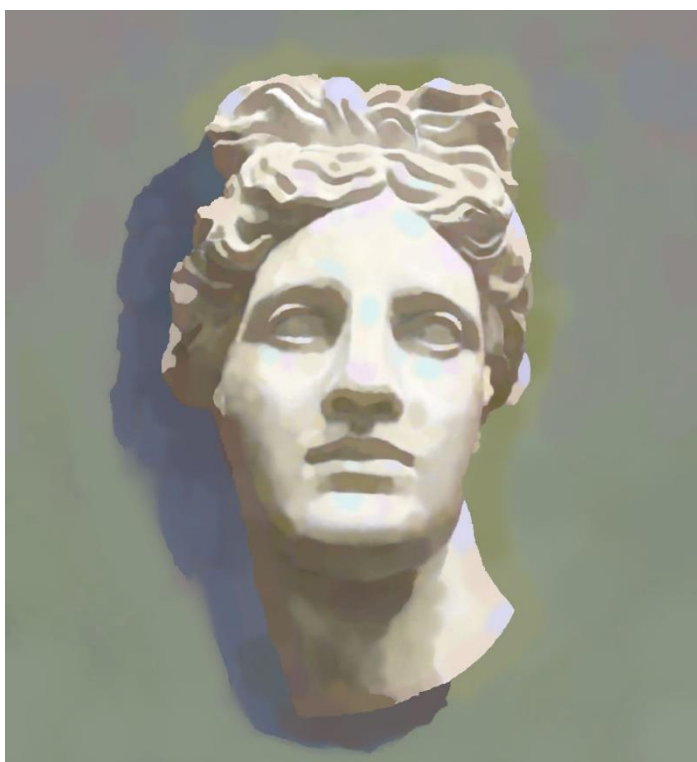
Jazz Scale,C major,f-sharp minor; 爵士音阶, C 大调, 升 f 小调



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: 石膏像，爵士音阶，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



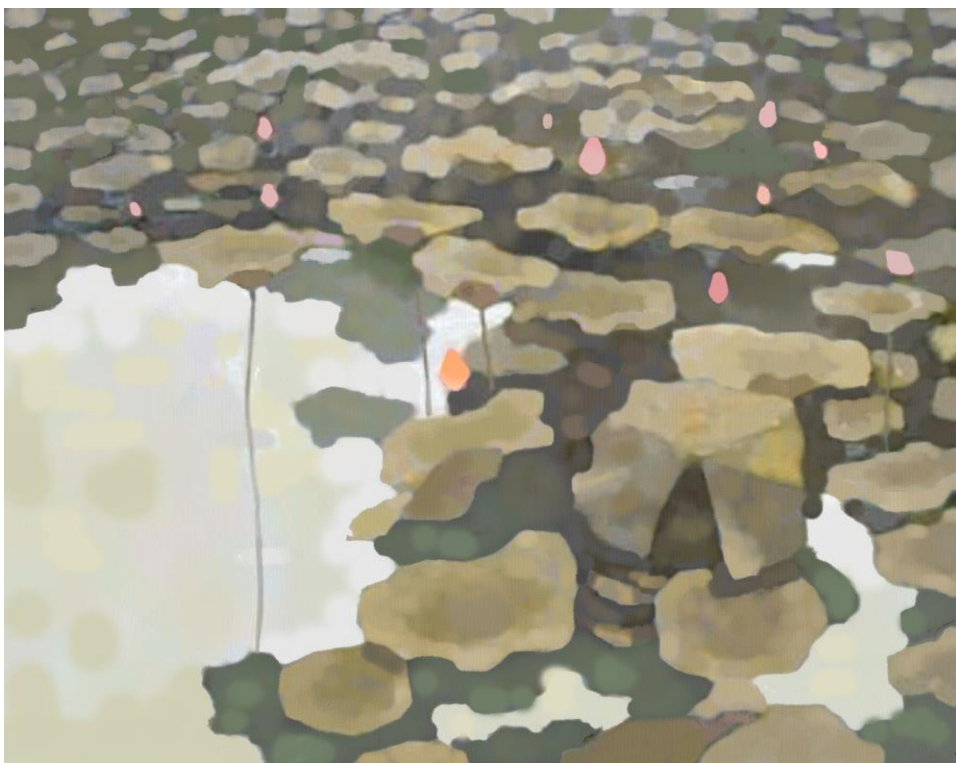
Still life, atonal system; 静物，无调性体系



River valley, atonal system; 河谷，无调性体系



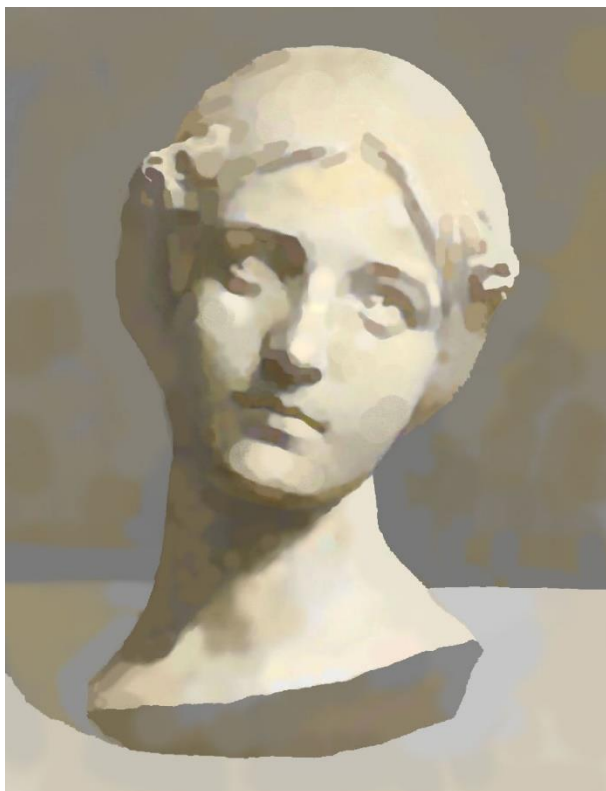
Fishing boat, atonal system; 渔舟，无调性体系



Lotus, atonal system; 荷花，无调性体系



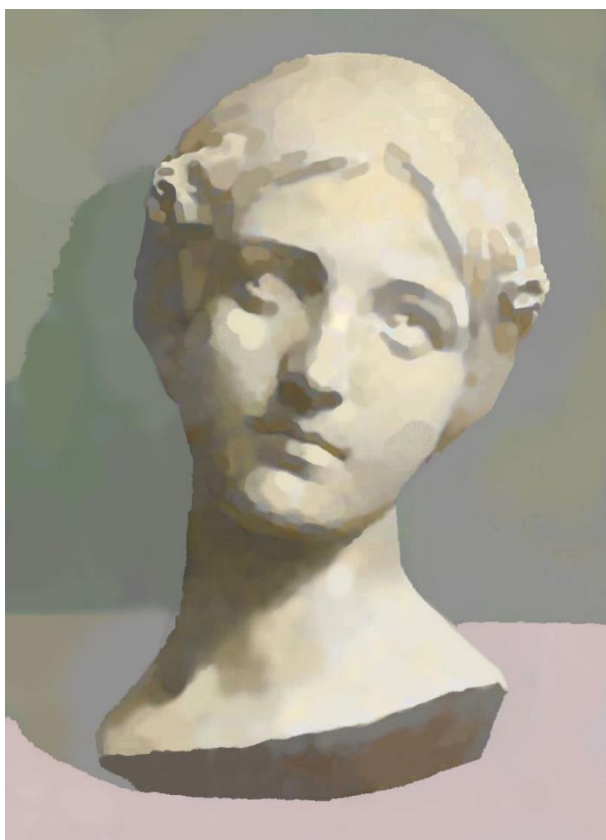
Plaster statue, atonal system; 石膏像，无调性体系



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



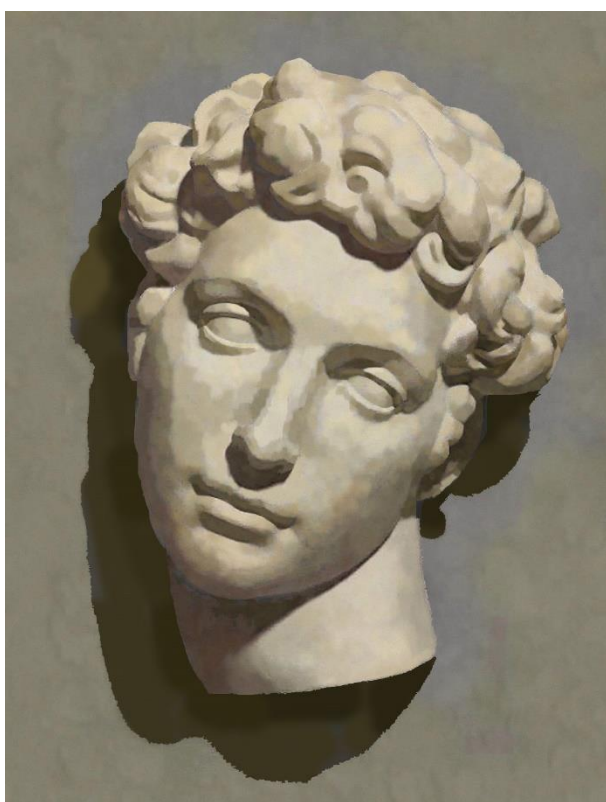
Plaster statue, atonal system; 石膏像，无调性体系



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



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



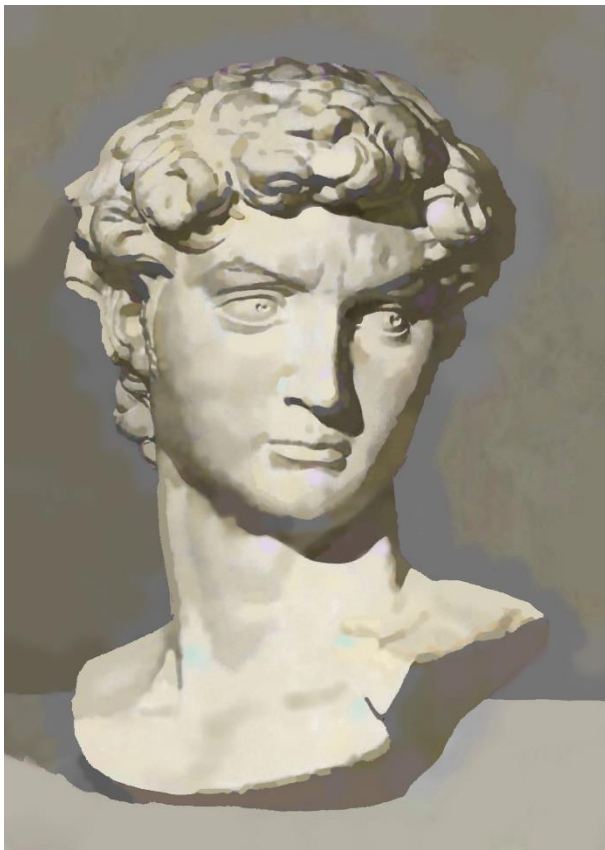
Plaster statue, atonal system; 石膏像，无调性体系



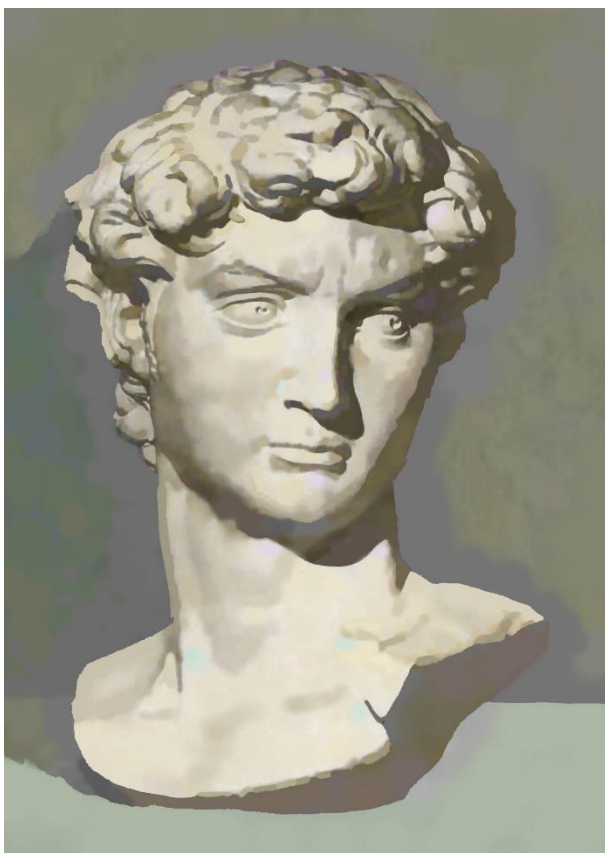
Plaster model, Atonal system: 石膏像、无调性体系



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

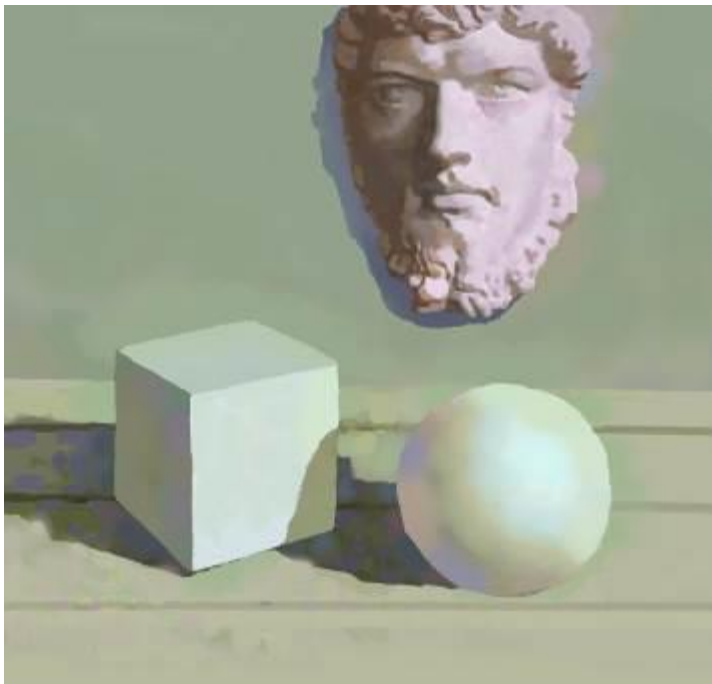
4、Transpose；转调



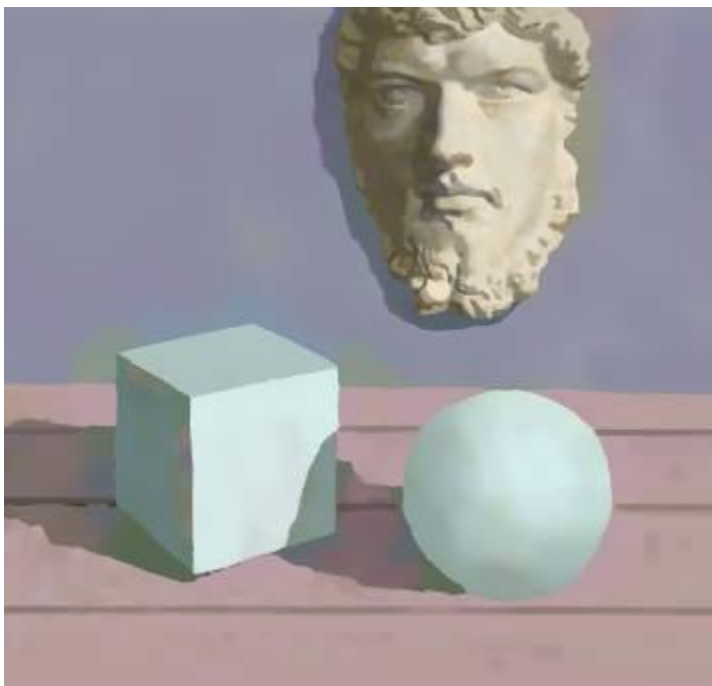
Plaster model B-E-C,key group；石膏模型、B-E-C 调群



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

几千年来，万物理论就在我们身边，它就是音乐，绘画中的和弦理论。

For thousands of years, the theory of everything has been all around us, it's the chord theory in music, in painting.

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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