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Terminology Benchmark

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Unified



Trigram & Hexagram Algebra

			/
(Yao / Line)	“ ”	1 0	$L \in \{0, 1\}$ 1 0 --

卦名	卦象	卦辞	卦义 / 卦用
䷵ (Moving Line)	䷵ ䷵ “ ䷵ ䷵”	䷵䷵䷵䷵ ䷵䷵䷵	$m = \text{mod6_yao}(N)$ $\in \{1, 2, 3, 4, 5, 6\}$
䷵ (Mod 8 Function)	“ ䷵䷵䷵䷵ ䷵䷵䷵”	䷵䷵ 8 ䷵䷵䷵䷵ ䷵	$\text{mod8}(N) = 8$ if $(N \bmod 8 == 0)$ else $(N \bmod 8)$
䷵ (Mod 6 Function)	“ ䷵䷵䷵䷵ ䷵䷵䷵”	䷵䷵ 6 ䷵䷵䷵䷵ ䷵	$\text{mod6}(N) = 6$ if $(N \bmod 6 == 0)$ else $(N \bmod 6)$
䷵ (Ti Trigram / Subject)	䷵ “ ䷵ ䷵”	䷵䷵䷵ ䷵䷵䷵	$G_{\text{ti}} = G_{\text{upper}}$ if $m \leq 3$ else G_{lower}
䷵ (Yong Trigram / Object)	䷵ “ ䷵ ䷵”	䷵䷵䷵ ䷵䷵䷵	$G_{\text{yong}} = G_{\text{lower}}$ if $m \leq 3$ else G_{upper}
䷵ (Mutual Hexagram)	䷵ ䷵	䷵ ䷵	$H_{\text{mutual}} = ([L_2, L_3, L_4], [L_3, L_4, L_5])$
䷵ (Ti/Yong Mutual)	䷵ ䷵	䷵ / ䷵ ䷵	$G_{\text{hu_ti}}, G_{\text{hu_yong}}$ $\text{hu_ti} > \text{hu_yong}$
䷵ / ䷵ (Changed Hexagram)	䷵ ䷵	䷵ ䷵	$H_{\text{changed}} = H_{\text{primary}} \oplus \mathbf{e}_m$ hu_ti
䷵ (Opposite Hexagram)	䷵ ䷵	䷵ ䷵	$H_{\text{opposite}} = \sim \vec{H}$ Bitwise NOT
䷵ / ䷵ (Reversed Hexagram)	䷵ 180 ䷵	䷵ ䷵	$H_{\text{reversed}} = \text{Reverse}(\vec{H})$
䷵ (Swapped Hexagram)	䷵	䷵ ䷵	$H_{\text{swapped}} = (G_{\text{lower}}, G_{\text{upper}})$
䷵ (Qian/Kun Boundary Fallback)	䷵ ䷵	䷵ ䷵	If $H \in \{\text{Qian}, \text{Kun}\}$ implies $H_{\text{mutual}} = \text{Mutual}(H_{\text{changed}})$
䷵ (Desynchronization K)	䷵ ䷵	䷵ ䷵	$\text{Num}' = \text{Num}_{\text{time}} + K_{\text{strokes}}$

Category	Concepts	Formulas	Interpretation / Notes
Five Elements Relations	Five Elements Cycle	Five Elements Cycle	$\text{Gen}(A, B) \implies B \text{ Ctrl}(A, B) \implies B$
Seasonal Five-Phase Energies	Five-Phase Energies	Five-Phase Energies	$\mathbf{W}(E, \text{Season}) \in \{\text{Spring}, \text{Summer}, \text{Autumn}, \text{Winter}, \text{Earth}\}$
Over-Prosperous	Over-Prosperous	Over-Prosperous	$E_{\text{score}}(T) > \Theta_{\text{max}} \implies \text{OVER_PROSPEROUS}$
Over-Depleted	Over-Depleted	Over-Depleted	$E_{\text{score}}(T) < \Theta_{\text{min}} \implies \text{OVER_DEPLETED}$
Predicted Timing	Predicted Timing	Predicted Timing	$\tau = \kappa \cdot \sum \text{Num}(G_i), \quad \kappa \in \{0.5, 1.0, 2.0\}$
San-Yao & Shi-Ying / External Synchronicity	San-Yao & Shi-Ying	San-Yao & Shi-Ying	$\vec{F}_{\text{ext}} \otimes \vec{F}_{\text{ti}} \implies \text{Synchronicity}$
Direct Reading Paradigm	Direct Reading Paradigm	Direct Reading Paradigm	$\Phi_{\text{direct}}: H \rightarrow \text{SemanticScene}$
Multi-Facet Projection	Multi-Facet Projection	Multi-Facet Projection	$\mathbf{P}_k(\vec{H}) \rightarrow \text{Aspect}_k \quad (\forall k \in \{\text{Spring}, \text{Summer}, \text{Autumn}, \text{Winter}\})$
Six-Relatives Flying Palace	Six-Relatives Flying Palace	Six-Relatives Flying Palace	$\text{Rel}(G) \in \{\text{Spring:Spring}, \text{Summer:Summer}, \text{Autumn:Autumn}, \text{Winter:Winter}, \text{Earth:Earth}\}$
Five Elements Remediation	Five Elements Remediation	Five Elements Remediation	$A \rightarrow \text{Spring} \implies A \rightarrow \text{Summer} C \rightarrow \text{Autumn} B$



Huangji Chronological Architecture



System / Component	Symbolic Representation	Mathematical Formulation	Interpretation / Formula
Yuan-Hui-Yun-Shi System	Yuan-Hui-Yun-Shi	Yuan-Hui-Yun-Shi	$\mathcal{U} = (\text{Yuan}, \text{Hui}, \text{Yun}, \text{Shi})$
Yuan (Yuan)	Yuan	Yuan 129600	$1 \text{ Yuan} = 129,600 \text{ Hui}$ $1 \text{ Hui} = 12 \text{ Yun} = 360 \text{ Shi}$
Hui (Hui)	Hui	Hui 10800	$1 \text{ Hui} = 10,800 \text{ Yun}$ $1 \text{ Yun} = 30 \text{ Shi} = 360 \text{ Shi}$
Yun (Yun)	Yun	Yun 360	$1 \text{ Yun} = 360 \text{ Shi}$ $1 \text{ Shi} = 12 \text{ Shi}$ 360°
Shi (Shi)	Shi	Shi 30	$1 \text{ Shi} = 30 \text{ Shi}$
Fractal Isomorphism	Fractal Isomorphism	Fractal Isomorphism	$(\text{Yuan}, \text{Hui}, \text{Yun}, \text{Shi}) \cong (\text{Yuan}, \text{Hui}, \text{Yun}, \text{Shi})$
Yuan Governing Hui	Yuan Governing Hui	Yuan Governing Hui	$H \in [1, 12]$
Hui Governing Yun	Hui Governing Yun	Hui Governing Yun	$Y \in [1, 360]$
Yun Governing Shi	Yun Governing Shi	Yun Governing Shi	$S \in [1, 4320]$
Absolute Cumulative Year	Absolute Cumulative Year	Absolute Cumulative Year	$N_{\text{year}} \in [1, 129600]$
CE Offset Constant	CE Offset Constant	CE Offset Constant	$\text{OFFSET} = 67017$ $\implies N_{\text{year}} = \text{CE} + 67017$

卦名	卦象	卦数	卦义 / 卦辞
四正卦 (Four Cardinal Trigrams)	☰☷☴☵	☰ 64 ☷ 64 ☴ 64 ☵ 64	$\mathcal{G}_{\text{cardinal}} = \{\text{☰}, \text{☷}, \text{☴}, \text{☵}\}$
六十圆卦 (Sixty Round Hexagrams)	☰☷☴☵☶☱	☰ 64 ☷ 64 ☴ 64 ☵ 64 ☶ 64 ☱ 64	$\mathcal{G}_{60} = \mathcal{G}_{64} \setminus \mathcal{G}_{\text{cardinal}}$
二至卦 (Hui Trigram / Bi-Gua)	☰☷	☰ 64 ☷ 64	$G_{\text{hui}}(H) \in \{\text{☰}, \text{☷}, \text{☴}, \text{☵}, \dots, \text{☶}, \text{☱}\}$
云卦 (Yun Trigram)	☰☷☴☵☶☱	☰ 64 ☷ 64 ☴ 64 ☵ 64 ☶ 64 ☱ 64	$G_{\text{yun}} = \mathcal{G}_{60} \setminus \lfloor (Y-1)/6 \rfloor, \quad \text{☰} = (Y-1)\%6 + 1$
时卦 (Shi Trigram)	☰☷☴☵☶☱	☰ 64 ☷ 64 ☴ 64 ☵ 64 ☶ 64 ☱ 64	$G_{\text{shi}}(S) = \text{DeduceShiGua}(G_{\text{yun}}, s_{\text{local}})$
年卦 / 岁卦 (Year Trigram)	☰☷☴☵☶☱	☰ 64 ☷ 64 ☴ 64 ☵ 64 ☶ 64 ☱ 64	$G_{\text{year}}(N) = \mathcal{G}_{60}[\text{jiaziIndex}(\text{Year})]$
开运窗 (Kaiwu Window)	☰☷☴☵☶☱	☰ 64 ☷ 64 ☴ 64 ☵ 64 ☶ 64 ☱ 64	$N_{\text{kaiwu}} = 27,000 \times \text{☰} \times 2.5 \times \text{☷}$
辟运窗 (Biwu Window)	☰☷☴☵☶☱	☰ 64 ☷ 64 ☴ 64 ☵ 64 ☶ 64 ☱ 64	$N_{\text{biwu}} = 113,400 \times \text{☰} \times 10.5 \times \text{☷}$
主动寿命 (Active Life Span)	☰☷☴☵☶☱	☰ 64 ☷ 64 ☴ 64 ☵ 64 ☶ 64 ☱ 64	$\Delta T_{\text{active}} = 86,400 \times \text{☰} = \frac{2}{3} T_{\text{yuan}}$
被动寿命 (Inactive Span)	☰☷☴☵☶☱	☰ 64 ☷ 64 ☴ 64 ☵ 64 ☶ 64 ☱ 64	$\Delta T_{\text{inactive}} = 43,200 \times \text{☰} = \frac{1}{3} T_{\text{yuan}}$



☰ Ontological & Mathematical

Operators

Category	Symbol	Definition	Formula / Example
Motion & Rest	$\hat{K}$	“ [Symbol] [Symbol]”	$\hat{K} \ (\text{[Symbol]} / \text{[Symbol]}), \quad \hat{V} \ (\text{[Symbol]} / \text{[Symbol]}) \implies \mathcal{H} = \hat{K} + \hat{V}$
Four Celestial Images	E_{sky}	[Symbol] “ [Symbol] [Symbol] [Symbol] [Symbol] [Symbol] [Symbol] [Symbol]”	$E_{\text{sky}} = \{\text{[Symbol]}, \text{[Symbol]}, \text{[Symbol]}, \text{[Symbol]}\} \cong \{0, 1\}^2$
Four Terrestrial Images	M_{earth}	[Symbol] “ [Symbol] [Symbol] [Symbol] [Symbol] [Symbol] [Symbol] [Symbol]”	$M_{\text{earth}} = \{\text{[Symbol]}, \text{[Symbol]}, \text{[Symbol]}, \text{[Symbol]}\} \cong \{0, 1\}^2$
Cosmic Outer Product	$\mathbf{U}_{4 \times 4}$	[Symbol] “ [Symbol]”	$\mathbf{U}_{4 \times 4} = E_{\text{sky}} \otimes M_{\text{earth}}$
Ontological Total Number	$S_{\text{[Symbol]}}$	[Symbol] 10 [Symbol] 12 [Symbol]	$S_{\text{[Symbol]}}(\text{[Symbol]}) = 160, \quad S_{\text{[Symbol]}}(\text{[Symbol]}) = 192$
Effective Degrees of Freedom	$S_{\text{[Symbol]}}$	[Symbol] [Symbol]	$S_{\text{[Symbol]}}(\text{[Symbol]}) = 112, \quad S_{\text{[Symbol]}}(\text{[Symbol]}) = 152$
Advance/Retreat Operator	$\mathcal{P}_{\text{[Symbol]}}$	“ [Symbol] [Symbol] [Symbol]”	$\mathcal{P}_{\text{[Symbol]}}: S_{\text{[Symbol]}} \rightarrow S_{\text{[Symbol]}}$
Universal Change Number	$\mathbf{N}_{\text{change}}$	[Symbol] “ [Symbol]”	$\mathbf{N}_{\text{change}} = 112 \times 152 = 17,024$
Three-Quarters Operator / Four-Body Three-Use	$\mathcal{P}_{3/4}(X)$	[Symbol] “ [Symbol] [Symbol] [Symbol] [Symbol] [Symbol] [Symbol] [Symbol]”	$\mathcal{P}_{3/4}(X) = X - \frac{1}{4}X = \frac{3}{4}X$

品名	単位	数量	金額	備考	備考
青銅製 銅貨	枚 / 箱 / 箱	16箱	65,896	1122 枚 (BCE 1122)	L2722
青銅製 銅貨	枚 / 箱 / 箱	26箱	66,176	842 枚 (BCE 842)	L3318
青銅製 銅貨	枚 / 箱 / 箱	7箱	66,247	771 枚 (BCE 771)	L3480
青銅製 銅貨	枚 / 箱 / 箱	17箱	66,797	221 枚 (BCE 221)	L4677
青銅製 銅貨	枚 / 箱 / 箱	6箱	66,816	202 枚 (BCE 202)	L4719
青銅製 銅貨	枚 / 箱 / 箱	22箱	67,042	25 枚 (CE 25)	L5207
青銅製 銅貨	枚 / 箱 / 箱	7箱	67,237	220 枚 (CE 220)	L5637
青銅製 銅貨	枚 / 箱 / 箱	22箱	67,282	265 枚 (CE 265)	L5732
青銅製 銅貨	枚 / 箱 / 箱	8箱	67,598	581 枚 (CE 581)	L6438

地区	年份 / 说明	人口 (万人)	GDP (亿元)	人均 GDP (元)	备注
北京市	2025 / 常住人口	15	67,635	618 (CE 618)	L6518
上海市	2025 / 常住人口	18	67,968	951 (CE 951)	L7256
广东省	2025 / 常住人口	27	67,977	960 (CE 960)	L7274
2026 预测	2026 / 常住人口	13	69,043	2026 (CE 2026)	

Code Conventions

Code Conventions

meihua cli web

6.1

```
# coding: utf-8
class ShaoYongConstants:
    # 年份
    YEARS_PER_YUAN = 129600 # 1
    YEARS_PER_HUI = 10800 # 1
    YEARS_PER_YUN = 360 # 1
    YEARS_PER_SHI = 30 # 1
    HUI_PER_YUAN = 12 # 1
    YUN_PER_HUI = 30 # 1
```

```
SHI_PER_YUN      = 12          # 10000

# 00000000
CE_OFFSET        = 67017      # 000000000000 (N = CE + 67017)

# 00000000
KAIWU_YEAR       = 27000      # 00000 (0000)
BIWU_YEAR        = 113400     # 00000 (0000)
ACTIVE_SPAN      = 86400      # 0000000000 (80, 0002/3)
CHAOS_SPAN       = 43200      # 00000000 (40, 0001/3)

# 00000000
TI_NUMBER_YANG   = 160        # 000000
TI_NUMBER_YIN    = 192        # 000000
YONG_NUMBER_YANG = 112        # 0000
YONG_NUMBER_YIN  = 152        # 0000
CHANGE_MODULUS   = 17024      # 000000 (112 * 152)
ONTOLOGY_STATES  = 65536      # 00000000 (2^16)

# 00 v2 00000000000000000000
TI_CE_TOTAL      = 384        # 0000
YONG_CE_TOTAL    = 360        # 0000
TI_YONG_CE       = 270        # 0000000000
PRACTICAL_CE     = 252        # 0000000000
PRACTICAL_INTERACTION = 264    # 0000000000
ORGANISM_BASE    = 256        # 0000000000
HEX_BURNSIDE_ORBITS = 36      # 0000000000
DAYAN_TOTAL      = 50         # 0000
DAYAN_USE        = 49         # 0000
```

6.2 000000000000

0000	00 Python 000	TypeScript 0000	JSON 0000
00 / 00	primary_hexagram	primaryHexagram: number	"primary_hexagram"
00	mutual_hexagram	mutualHexagram: number	"mutual_hexagram"
00	changed_hexagram	changedHexagram: number	"changed_hexagram"
00 / 00	ti_gua, yong_gua	tiGua: number, yongGua: number	"ti_gua", "yong_gua"

