**知识框架**

**Zhhy** Ẑ

**（没有第二部分）**

**Chinese knowledge elements:**

***汉字(梳理)***

**Zha**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [渣12](http://xh.5156edu.com/html3/8733.html)[闸8](http://xh.5156edu.com/html3/6186.html) [眨9](http://xh.5156edu.com/html3/14863.html) [炸9](http://xh.5156edu.com/html3/10951.html)

**号表法no.indicator:** 1 2 3 4

**全家福family photo:**

|  |  |
| --- | --- |
| **纲（四声）** | **目（汉字梳理）** |
| Zha 1 | [扎4](http://xh.5156edu.com/html3/7527.html)[紥10](http://xh.5156edu.com/html3/17072.html)[紮11](http://xh.5156edu.com/html3/17074.html)  [吒6](http://xh.5156edu.com/html3/5399.html)[挓9](http://xh.5156edu.com/html3/7710.html)  [咋8](http://xh.5156edu.com/html3/5511.html)  [抯8](http://xh.5156edu.com/html3/7677.html)[柤9](http://xh.5156edu.com/html3/11633.html)  [查9](http://xh.5156edu.com/html3/11544.html)[渣12](http://xh.5156edu.com/html3/8733.html)[喳12](http://xh.5156edu.com/html3/5767.html)[猹12](http://xh.5156edu.com/html3/6930.html)[揸12](http://xh.5156edu.com/html3/7925.html)[皶14](http://xh.5156edu.com/html3/15404.html)[齄23](http://xh.5156edu.com/html3/22280.html)  [奓9](http://xh.5156edu.com/html3/4969.html)[偧11](http://xh.5156edu.com/html3/3157.html)  [哳10](http://xh.5156edu.com/html3/5642.html)  [溠12](http://xh.5156edu.com/html3/8734.html)  [劄14](http://xh.5156edu.com/html3/2066.html)  [摣14](http://xh.5156edu.com/html3/8035.html)[樝15](http://xh.5156edu.com/html3/12183.html)[皻16](http://xh.5156edu.com/html3/15406.html)[齇25](http://xh.5156edu.com/html3/22284.html)  [觰15](http://xh.5156edu.com/html3/18539.html)[譇18](http://xh.5156edu.com/html3/18980.html) |
| Zha 2 | [扎4](http://xh.5156edu.com/html3/7527.html)[轧5](http://xh.5156edu.com/html3/10631.html)[札5](http://xh.5156edu.com/html3/11407.html)[蚻11](http://xh.5156edu.com/html3/16371.html)  [闸8](http://xh.5156edu.com/html3/6186.html)[閘13](http://xh.5156edu.com/html3/20301.html)  [炸9](http://xh.5156edu.com/html3/10951.html)  [铡11](http://xh.5156edu.com/html3/14599.html)[鍘17](http://xh.5156edu.com/html3/19994.html)  [喋12](http://xh.5156edu.com/html3/5771.html)  [牐13](http://xh.5156edu.com/html3/12516.html)  [箚14](http://xh.5156edu.com/html3/17908.html)[劄14](http://xh.5156edu.com/html3/2066.html)[譗19](http://xh.5156edu.com/html3/19008.html)  [耫17](http://xh.5156edu.com/html3/16926.html) |
| Zha 3 | [厏7](http://xh.5156edu.com/html3/1888.html)[苲8](http://xh.5156edu.com/html3/3743.html)[拃8](http://xh.5156edu.com/html3/7655.html)[砟10](http://xh.5156edu.com/html3/15482.html)[鲊13](http://xh.5156edu.com/html3/20544.html)[鮓16](http://xh.5156edu.com/html3/21918.html)  [眨9](http://xh.5156edu.com/html3/14863.html)  [鲝14](http://xh.5156edu.com/html3/20559.html)[鮺17](http://xh.5156edu.com/html3/21942.html) |
| Zha 4 | [乍5](http://xh.5156edu.com/html3/1650.html)[诈7](http://xh.5156edu.com/html3/3470.html)[咋8](http://xh.5156edu.com/html3/5511.html)[炸9](http://xh.5156edu.com/html3/10951.html)[柞9](http://xh.5156edu.com/html3/11582.html)[痄10](http://xh.5156edu.com/html3/15125.html)[宱10](http://xh.5156edu.com/html3/6283.html)[蚱11](http://xh.5156edu.com/html3/16352.html)[詐12](http://xh.5156edu.com/html3/18725.html)[搾13](http://xh.5156edu.com/html3/7993.html)[榨14](http://xh.5156edu.com/html3/12053.html)  [醡17](http://xh.5156edu.com/html3/19173.html)  [灹7](http://xh.5156edu.com/html3/10904.html)[咤9](http://xh.5156edu.com/html3/5544.html)  [栅9](http://xh.5156edu.com/html3/11573.html)  [奓9](http://xh.5156edu.com/html3/4969.html)  [槎13](http://xh.5156edu.com/html3/11932.html)  [蜡14](http://xh.5156edu.com/html3/16453.html)  [霅15](http://xh.5156edu.com/html3/20661.html) |
| ? | [蓙13](http://xh.5156edu.com/html3/4247.html) |

**Zhai**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [斋10](http://xh.5156edu.com/html3/13607.html)[宅6](http://xh.5156edu.com/html3/6229.html) [窄10](http://xh.5156edu.com/html3/15942.html) [寨14](http://xh.5156edu.com/html3/6320.html)

**号表法no.indicator:** 1 2 3 4

**全家福family photo:**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **纲（四声）** | **目（汉字梳理）** | | Zhai 1 | [侧8](http://xh.5156edu.com/html3/2883.html)  [夈9](http://xh.5156edu.com/html3/10452.html)  [捚10](http://xh.5156edu.com/html3/7794.html)  [斋10](http://xh.5156edu.com/html3/13607.html)[斎11](http://xh.5156edu.com/html3/13611.html)[齋17](http://xh.5156edu.com/html3/22288.html)  [摘14](http://xh.5156edu.com/html3/8030.html)  [榸14](http://xh.5156edu.com/html3/12109.html) | | Zhai 2 | [宅6](http://xh.5156edu.com/html3/6229.html)  [择8](http://xh.5156edu.com/html3/7654.html)[檡17](http://xh.5156edu.com/html3/12302.html)  [翟14](http://xh.5156edu.com/html3/17605.html) | | Zhai 3 | [窄10](http://xh.5156edu.com/html3/15942.html)  [鉙13](http://xh.5156edu.com/html3/19782.html) | | Zhai 4 | [责8](http://xh.5156edu.com/html3/10522.html)[债10债10](http://xh.5156edu.com/html3/3048.html)  [柴10](http://xh.5156edu.com/html3/11639.html)[砦11](http://xh.5156edu.com/html3/15509.html)  [祭11](http://xh.5156edu.com/html3/15766.html)  [寨14](http://xh.5156edu.com/html3/6320.html) | | ? | [粂9](http://xh.5156edu.com/html3/16946.html)[瘵16](http://xh.5156edu.com/html3/15243.html) | |

**Zhan**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [毡9](http://xh.5156edu.com/html3/11353.html)[讝26](http://xh.5156edu.com/html3/19072.html) [展10](http://xh.5156edu.com/html3/7424.html) [战9](http://xh.5156edu.com/html3/10833.html)

**号表法no.indicator:** 1 2 3 4

**全家福family photo:**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **纲（四声）** | **目（汉字梳理）** | | Zhan 1 | [占5](http://xh.5156edu.com/html3/1867.html)[沾8](http://xh.5156edu.com/html3/8375.html)[毡9](http://xh.5156edu.com/html3/11353.html)[蛅11](http://xh.5156edu.com/html3/16372.html)[粘11](http://xh.5156edu.com/html3/16968.html)[趈12](http://xh.5156edu.com/html3/19272.html)[詀12](http://xh.5156edu.com/html3/18735.html)[惉12](http://xh.5156edu.com/html3/13713.html)[霑16](http://xh.5156edu.com/html3/20671.html)  [枬8](http://xh.5156edu.com/html3/11523.html)[旃10](http://xh.5156edu.com/html3/10773.html)[栴10](http://xh.5156edu.com/html3/11725.html)  [飦11](http://xh.5156edu.com/html3/20398.html)  [詹13](http://xh.5156edu.com/html3/18757.html)[谵15](http://xh.5156edu.com/html3/3576.html)[薝16](http://xh.5156edu.com/html3/4436.html)[噡16](http://xh.5156edu.com/html3/6014.html)[嶦16](http://xh.5156edu.com/html3/7337.html)[瞻18](http://xh.5156edu.com/html3/15048.html)[譫20](http://xh.5156edu.com/html3/19018.html)  [閚13](http://xh.5156edu.com/html3/20307.html)  [邅16](http://xh.5156edu.com/html3/4889.html)[氊17](http://xh.5156edu.com/html3/11395.html)[氈17](http://xh.5156edu.com/html3/11397.html)[鹯18](http://xh.5156edu.com/html3/15390.html)[旜19](http://xh.5156edu.com/html3/10798.html)[饘21](http://xh.5156edu.com/html3/20512.html)[鳣21](http://xh.5156edu.com/html3/20628.html)[驙23](http://xh.5156edu.com/html3/21461.html)[鸇24](http://xh.5156edu.com/html3/21843.html)[鱣24](http://xh.5156edu.com/html3/22143.html)  [魙23](http://xh.5156edu.com/html3/20993.html) | | Zhan 2 | [讝26](http://xh.5156edu.com/html3/19072.html) | | Zhan 3 | [斩8](http://xh.5156edu.com/html3/11319.html)[崭11](http://xh.5156edu.com/html3/7180.html)[斬11](http://xh.5156edu.com/html3/11325.html)[嶄14](http://xh.5156edu.com/html3/7283.html)[嶃14](http://xh.5156edu.com/html3/7284.html)  [飐9](http://xh.5156edu.com/html3/10803.html)[颭14](http://xh.5156edu.com/html3/20787.html)  [盏10](http://xh.5156edu.com/html3/14804.html)  [展10](http://xh.5156edu.com/html3/7424.html)[搌13](http://xh.5156edu.com/html3/7983.html)[辗14](http://xh.5156edu.com/html3/10679.html)[榐14](http://xh.5156edu.com/html3/12073.html)[輾17](http://xh.5156edu.com/html3/18371.html)  [琖12](http://xh.5156edu.com/html3/13433.html)[盞13](http://xh.5156edu.com/html3/14820.html)[醆15](http://xh.5156edu.com/html3/19149.html)  [嫸15](http://xh.5156edu.com/html3/6754.html)[橏16](http://xh.5156edu.com/html3/12238.html)  [黵25](http://xh.5156edu.com/html3/22204.html) | | Zhan 4 | [占5](http://xh.5156edu.com/html3/1867.html)[佔7](http://xh.5156edu.com/html3/2862.html)[战9](http://xh.5156edu.com/html3/10833.html)[站10](http://xh.5156edu.com/html3/14744.html)[戦13](http://xh.5156edu.com/html3/10847.html)[戰16](http://xh.5156edu.com/html3/10857.html)  [栈9](http://xh.5156edu.com/html3/11583.html)[桟10](http://xh.5156edu.com/html3/11726.html)[菚11](http://xh.5156edu.com/html3/4044.html)[棧12](http://xh.5156edu.com/html3/11874.html)[輚15](http://xh.5156edu.com/html3/18332.html)[嶘15](http://xh.5156edu.com/html3/7327.html)[虥16](http://xh.5156edu.com/html3/16878.html)[虦16](http://xh.5156edu.com/html3/16879.html)  [绽11](http://xh.5156edu.com/html3/9351.html)[綻14](http://xh.5156edu.com/html3/17319.html)  [偡11](http://xh.5156edu.com/html3/3158.html)[湛12](http://xh.5156edu.com/html3/8735.html)  [襢18](http://xh.5156edu.com/html3/16206.html)  [覱18](http://xh.5156edu.com/html3/18498.html)  [轏19](http://xh.5156edu.com/html3/18392.html)[驏22](http://xh.5156edu.com/html3/21454.html)  [譧20](http://xh.5156edu.com/html3/19026.html) | | ? | [蘸22](http://xh.5156edu.com/html3/4572.html) | |

**Zhang**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [章11](http://xh.5156edu.com/html3/14752.html) [掌12](http://xh.5156edu.com/html3/13132.html) [丈3](http://xh.5156edu.com/html3/1677.html)

**号表法no.indicator:** 1 2 3 4

**全家福family photo:**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **纲（四声）** | **目（汉字梳理）** | | Zhang 1 | [仉4](http://xh.5156edu.com/html3/2744.html)  [张7](http://xh.5156edu.com/html3/5037.html)[張11](http://xh.5156edu.com/html3/5061.html)[粻14](http://xh.5156edu.com/html3/17011.html)[餦16](http://xh.5156edu.com/html3/20455.html)  [章11](http://xh.5156edu.com/html3/14752.html)[鄣13](http://xh.5156edu.com/html3/2427.html)[傽13](http://xh.5156edu.com/html3/3231.html)[蔁14](http://xh.5156edu.com/html3/4321.html)[遧14](http://xh.5156edu.com/html3/4872.html)  [嫜14](http://xh.5156edu.com/html3/6712.html)[獐14](http://xh.5156edu.com/html3/6969.html)[彰14](http://xh.5156edu.com/html3/7392.html)[漳14](http://xh.5156edu.com/html3/8928.html)[慞14](http://xh.5156edu.com/html3/10318.html)[樟15](http://xh.5156edu.com/html3/12131.html)[暲15](http://xh.5156edu.com/html3/12943.html)[璋15](http://xh.5156edu.com/html3/13520.html)[蟑17](http://xh.5156edu.com/html3/16609.html)[騿20](http://xh.5156edu.com/html3/21430.html)  [麞22](http://xh.5156edu.com/html3/21528.html)[鱆22](http://xh.5156edu.com/html3/22117.html) | | Zhang 3 | [长4](http://xh.5156edu.com/html3/10629.html)[涨10](http://xh.5156edu.com/html3/8527.html)[漲14](http://xh.5156edu.com/html3/8945.html)  [掌12](http://xh.5156edu.com/html3/13132.html)[礃17](http://xh.5156edu.com/html3/15680.html) | | Zhang 4 | [丈3](http://xh.5156edu.com/html3/1677.html)[仗5](http://xh.5156edu.com/html3/2761.html)[扙6](http://xh.5156edu.com/html3/7558.html)[杖7](http://xh.5156edu.com/html3/11451.html)  [张7](http://xh.5156edu.com/html3/5037.html)[帐7](http://xh.5156edu.com/html3/5250.html)[胀8](http://xh.5156edu.com/html3/13872.html)[账8](http://xh.5156edu.com/html3/10523.html)[涨10](http://xh.5156edu.com/html3/8527.html)[涱11](http://xh.5156edu.com/html3/8683.html)[帳11](http://xh.5156edu.com/html3/5294.html)[脹12](http://xh.5156edu.com/html3/14034.html)[痮13](http://xh.5156edu.com/html3/15199.html)[賬15](http://xh.5156edu.com/html3/18179.html)[瘬16](http://xh.5156edu.com/html3/15254.html)  [障13](http://xh.5156edu.com/html3/2428.html)[幛14](http://xh.5156edu.com/html3/5323.html)[嶂14](http://xh.5156edu.com/html3/7280.html)[墇14](http://xh.5156edu.com/html3/9803.html)[瘴16](http://xh.5156edu.com/html3/15244.html)[瞕16](http://xh.5156edu.com/html3/15026.html) | | ? | [粀9](http://xh.5156edu.com/html3/16947.html)[幥15](http://xh.5156edu.com/html3/5341.html)[鏱19](http://xh.5156edu.com/html3/20141.html) | |

**Zhao**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [招8](http://xh.5156edu.com/html3/7656.html)[着11](http://xh.5156edu.com/html3/14913.html) [找7](http://xh.5156edu.com/html3/7593.html) [照13](http://xh.5156edu.com/html3/10613.html)

**号表法no.indicator:** 1 2 3 4

**全家福family photo:**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **纲（四声）** | **目（汉字梳理）** | | Zhao 1 | [佋7](http://xh.5156edu.com/html3/2871.html)[妱8](http://xh.5156edu.com/html3/6438.html)[招8](http://xh.5156edu.com/html3/7656.html)[巶8](http://xh.5156edu.com/html3/9411.html)[昭9](http://xh.5156edu.com/html3/12797.html)[鉊13](http://xh.5156edu.com/html3/19783.html)[駋15](http://xh.5156edu.com/html3/21335.html)[鍣16](http://xh.5156edu.com/html3/19982.html)  [钊7](http://xh.5156edu.com/html3/14495.html)[釗10](http://xh.5156edu.com/html3/19628.html)  [着11](http://xh.5156edu.com/html3/14913.html)  [啁11](http://xh.5156edu.com/html3/5726.html)  [朝12](http://xh.5156edu.com/html3/14017.html)[嘲15](http://xh.5156edu.com/html3/5938.html)  [鼌13](http://xh.5156edu.com/html3/22210.html)  [皽18](http://xh.5156edu.com/html3/15408.html) | | Zhao 2 | [着11](http://xh.5156edu.com/html3/14913.html) | | Zhao 3 | [爫4](http://xh.5156edu.com/html3/14192.html)[爪4](http://xh.5156edu.com/html3/14228.html)  [找7](http://xh.5156edu.com/html3/7593.html)  [沼8](http://xh.5156edu.com/html3/8376.html)  [瑵13](http://xh.5156edu.com/html3/13486.html) | | Zhao 4 | [召5](http://xh.5156edu.com/html3/5375.html)[诏7](http://xh.5156edu.com/html3/3471.html)[炤9](http://xh.5156edu.com/html3/10954.html)[詔12](http://xh.5156edu.com/html3/18731.html)[照13](http://xh.5156edu.com/html3/10613.html)[燳17](http://xh.5156edu.com/html3/11244.html)  [兆6](http://xh.5156edu.com/html3/2095.html)[狣9](http://xh.5156edu.com/html3/6884.html)[垗9](http://xh.5156edu.com/html3/9573.html)[旐12](http://xh.5156edu.com/html3/10783.html)[鮡17](http://xh.5156edu.com/html3/21941.html)  [枛8](http://xh.5156edu.com/html3/11536.html)[笊10](http://xh.5156edu.com/html3/17755.html)  [赵9](http://xh.5156edu.com/html3/19249.html)[趙14](http://xh.5156edu.com/html3/19283.html)  [肁10](http://xh.5156edu.com/html3/17642.html)  [棹12](http://xh.5156edu.com/html3/11860.html)[罩13](http://xh.5156edu.com/html3/15793.html)[羄19](http://xh.5156edu.com/html3/15820.html)  [肇14](http://xh.5156edu.com/html3/17646.html)[肈14](http://xh.5156edu.com/html3/17647.html)  [箌14](http://xh.5156edu.com/html3/17901.html)  [曌16](http://xh.5156edu.com/html3/12948.html)[瞾18](http://xh.5156edu.com/html3/15049.html)  [櫂18](http://xh.5156edu.com/html3/12317.html) | | ？ | [罀12](http://xh.5156edu.com/html3/16833.html) | |

**Zhe**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [遮14](http://xh.5156edu.com/html3/4863.html)[哲10](http://xh.5156edu.com/html3/5643.html) [者8](http://xh.5156edu.com/html3/11340.html) [浙10](http://xh.5156edu.com/html3/8528.html)

**号表法no.indicator:** 1 2 3 4

**全家福family photo:**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **纲（四声）** | **目（汉字梳理）** | | Zhe 1 | [折7](http://xh.5156edu.com/html3/7585.html)[蜇13](http://xh.5156edu.com/html3/16425.html)  [遮14](http://xh.5156edu.com/html3/4863.html)[嗻14](http://xh.5156edu.com/html3/5913.html)[嫬14](http://xh.5156edu.com/html3/6728.html)  [螫17](http://xh.5156edu.com/html3/16603.html) | | Zhe 2 | [厇5](http://xh.5156edu.com/html3/1880.html)[矺8](http://xh.5156edu.com/html3/15431.html)[虴9](http://xh.5156edu.com/html3/16297.html)[籷9](http://xh.5156edu.com/html3/16948.html)  [折7](http://xh.5156edu.com/html3/7585.html)[歽8](http://xh.5156edu.com/html3/10692.html)[埑10](http://xh.5156edu.com/html3/9607.html)[哲10](http://xh.5156edu.com/html3/5643.html)[啠11](http://xh.5156edu.com/html3/5764.html)[晢11](http://xh.5156edu.com/html3/12851.html)[晣11](http://xh.5156edu.com/html3/12852.html)[悊11](http://xh.5156edu.com/html3/13695.html)[蛰12](http://xh.5156edu.com/html3/16390.html)[蜇13](http://xh.5156edu.com/html3/16425.html)  [砓9](http://xh.5156edu.com/html3/15460.html)  [袩10](http://xh.5156edu.com/html3/16055.html)  [辄11](http://xh.5156edu.com/html3/10663.html)[輒14](http://xh.5156edu.com/html3/18320.html)[輙15](http://xh.5156edu.com/html3/18335.html)[銸15](http://xh.5156edu.com/html3/19898.html)[鮿18](http://xh.5156edu.com/html3/21996.html)  [喆12](http://xh.5156edu.com/html3/5807.html)[嚞18](http://xh.5156edu.com/html3/6059.html)  [詟12](http://xh.5156edu.com/html3/18716.html)[讋24](http://xh.5156edu.com/html3/19066.html)  [谪13](http://xh.5156edu.com/html3/3567.html)[謫18](http://xh.5156edu.com/html3/18963.html)[讁21](http://xh.5156edu.com/html3/19034.html)  [摺14](http://xh.5156edu.com/html3/8038.html)  [磔15](http://xh.5156edu.com/html3/15631.html)  [辙16](http://xh.5156edu.com/html3/10684.html)[轍19](http://xh.5156edu.com/html3/18387.html)  [蟄17](http://xh.5156edu.com/html3/16620.html)[謺18](http://xh.5156edu.com/html3/18981.html) | | Zhe 3 | [者8](http://xh.5156edu.com/html3/11340.html)[锗13](http://xh.5156edu.com/html3/14657.html)[褚13](http://xh.5156edu.com/html3/16116.html)[赭15](http://xh.5156edu.com/html3/18422.html)[踷15](http://xh.5156edu.com/html3/19439.html)[鍺16](http://xh.5156edu.com/html3/19916.html)  [褶16](http://xh.5156edu.com/html3/16178.html)[襵23](http://xh.5156edu.com/html3/16233.html) | | Zhe 4 | [这7](http://xh.5156edu.com/html3/4717.html)[這10](http://xh.5156edu.com/html3/4789.html)  [柘9](http://xh.5156edu.com/html3/11584.html)  [浙10](http://xh.5156edu.com/html3/8528.html)  [淛11](http://xh.5156edu.com/html3/8628.html)  [嗻14](http://xh.5156edu.com/html3/5913.html)[蔗14](http://xh.5156edu.com/html3/4270.html)[樜15](http://xh.5156edu.com/html3/12184.html)[鹧16](http://xh.5156edu.com/html3/15380.html)[蟅17](http://xh.5156edu.com/html3/16618.html)[鷓22](http://xh.5156edu.com/html3/21803.html) | | ? | [粍10](http://xh.5156edu.com/html3/16964.html) | |

**Zhei**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:**  [这7](http://xh.5156edu.com/html3/4717.html)

**号表法no.indicator:** 1 2 3 4

**全家福family photo:**

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| --- | --- |
| **纲（四声）** | **目（汉字梳理）** |
| Zhei 4 | [这7](http://xh.5156edu.com/html3/4717.html) |

**Zhen**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [针7](http://xh.5156edu.com/html3/14496.html)[枕8](http://xh.5156edu.com/html3/11503.html) [阵6](http://xh.5156edu.com/html3/2200.html)

**号表法no.indicator:** 1 2 3 4

**全家福family photo:**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **纲（四声）** | **目（汉字梳理）** | | Zhen 1 | [贞6](http://xh.5156edu.com/html3/10510.html)[侦8](http://xh.5156edu.com/html3/2922.html)[帧9](http://xh.5156edu.com/html3/5272.html)[浈9](http://xh.5156edu.com/html3/8451.html)[貞9](http://xh.5156edu.com/html3/18111.html)[祯10](http://xh.5156edu.com/html3/13040.html)[桢10](http://xh.5156edu.com/html3/11681.html)[偵11](http://xh.5156edu.com/html3/3122.html)[幀12](http://xh.5156edu.com/html3/5311.html)[寊12](http://xh.5156edu.com/html3/6306.html)[湞12](http://xh.5156edu.com/html3/8740.html)  [遉12](http://xh.5156edu.com/html3/4835.html)[楨13](http://xh.5156edu.com/html3/12025.html)[禎13](http://xh.5156edu.com/html3/13077.html)  [针7](http://xh.5156edu.com/html3/14496.html)[針10](http://xh.5156edu.com/html3/19629.html)  [胗9](http://xh.5156edu.com/html3/13912.html)[珍9](http://xh.5156edu.com/html3/13331.html)[鉁13](http://xh.5156edu.com/html3/19784.html) [珎9](http://xh.5156edu.com/html3/13332.html)  [真10](http://xh.5156edu.com/html3/14884.html)[嫃13](http://xh.5156edu.com/html3/6698.html)[蒖13](http://xh.5156edu.com/html3/4245.html)[禛14](http://xh.5156edu.com/html3/13090.html) [眞10](http://xh.5156edu.com/html3/14901.html)  [砧10](http://xh.5156edu.com/html3/15483.html)  [帪10](http://xh.5156edu.com/html3/5287.html)  [酙11](http://xh.5156edu.com/html3/19104.html) [斟13](http://xh.5156edu.com/html3/10750.html)[椹13](http://xh.5156edu.com/html3/11958.html)[碪14](http://xh.5156edu.com/html3/15608.html)  [葴12](http://xh.5156edu.com/html3/4132.html)[箴15](http://xh.5156edu.com/html3/17921.html)[鍼17](http://xh.5156edu.com/html3/19992.html)[鱵26](http://xh.5156edu.com/html3/22157.html)  [溱13](http://xh.5156edu.com/html3/8829.html)[獉13](http://xh.5156edu.com/html3/6954.html)[搸13](http://xh.5156edu.com/html3/8019.html)[蓁13](http://xh.5156edu.com/html3/4193.html)[瑧14](http://xh.5156edu.com/html3/13509.html)[榛14](http://xh.5156edu.com/html3/12054.html)[殝14](http://xh.5156edu.com/html3/10724.html)[臻16](http://xh.5156edu.com/html3/17656.html)[轃17](http://xh.5156edu.com/html3/18377.html)  [甄13](http://xh.5156edu.com/html3/13255.html)[薽16](http://xh.5156edu.com/html3/4437.html)[籈19](http://xh.5156edu.com/html3/18048.html)  [潧15](http://xh.5156edu.com/html3/9064.html)  [樼16](http://xh.5156edu.com/html3/12264.html)  [澵16](http://xh.5156edu.com/html3/9115.html)  [錱16](http://xh.5156edu.com/html3/19600.html) | | Zhen 3 | [诊7](http://xh.5156edu.com/html3/3472.html)[抮8](http://xh.5156edu.com/html3/7679.html)[轸9](http://xh.5156edu.com/html3/10649.html)[昣9](http://xh.5156edu.com/html3/12815.html)[胗9](http://xh.5156edu.com/html3/13912.html)[眕10](http://xh.5156edu.com/html3/14900.html)[疹10](http://xh.5156edu.com/html3/15126.html)[畛10](http://xh.5156edu.com/html3/15867.html)[袗10](http://xh.5156edu.com/html3/16050.html)[聄11](http://xh.5156edu.com/html3/16772.html)[紾11](http://xh.5156edu.com/html3/17195.html)  [軫12](http://xh.5156edu.com/html3/18285.html)[診12](http://xh.5156edu.com/html3/18724.html)[駗15](http://xh.5156edu.com/html3/21336.html)  [枕8](http://xh.5156edu.com/html3/11503.html)  [弫9](http://xh.5156edu.com/html3/5052.html)[姫9](http://xh.5156edu.com/html3/6495.html)  [屒10](http://xh.5156edu.com/html3/7430.html)[裖12](http://xh.5156edu.com/html3/16112.html)[辴19](http://xh.5156edu.com/html3/18413.html)  [覙12](http://xh.5156edu.com/html3/18472.html)  [缜13](http://xh.5156edu.com/html3/9389.html)[稹15](http://xh.5156edu.com/html3/14433.html)[縝16](http://xh.5156edu.com/html3/17401.html)[鬒20](http://xh.5156edu.com/html3/21237.html)[黰22](http://xh.5156edu.com/html3/22200.html)  [縥16](http://xh.5156edu.com/html3/17425.html) | | Zhen 4 | [阵6](http://xh.5156edu.com/html3/2200.html)[陣9](http://xh.5156edu.com/html3/2306.html)[塦12](http://xh.5156edu.com/html3/9717.html)  [圳6](http://xh.5156edu.com/html3/9437.html)[甽8](http://xh.5156edu.com/html3/15844.html)  [纼7](http://xh.5156edu.com/html3/9285.html)[紖10](http://xh.5156edu.com/html3/17175.html) [絼13](http://xh.5156edu.com/html3/17289.html)  [鸩9](http://xh.5156edu.com/html3/15317.html)[鴆15](http://xh.5156edu.com/html3/21583.html)  [侲9](http://xh.5156edu.com/html3/2989.html)[振10](http://xh.5156edu.com/html3/7764.html)[赈11](http://xh.5156edu.com/html3/10553.html)[賑14](http://xh.5156edu.com/html3/18162.html)[誫14](http://xh.5156edu.com/html3/18835.html)[震15](http://xh.5156edu.com/html3/20662.html)  [挋9](http://xh.5156edu.com/html3/7739.html) [揕12](http://xh.5156edu.com/html3/7928.html)  [栚10](http://xh.5156edu.com/html3/11728.html)[朕10](http://xh.5156edu.com/html3/13963.html)[眹11](http://xh.5156edu.com/html3/14925.html)  [镇15](http://xh.5156edu.com/html3/14695.html)[鎮18](http://xh.5156edu.com/html3/20090.html) [鎭18](http://xh.5156edu.com/html3/20053.html) | | ? | [鋴15](http://xh.5156edu.com/html3/19907.html) | |

**Zheng**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [争6](http://xh.5156edu.com/html3/1935.html)[整16](http://xh.5156edu.com/html3/12602.html) [政9](http://xh.5156edu.com/html3/12557.html)

**号表法no.indicator:** 1 2 3 4

**全家福family photo:**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **纲（四声）** | **目（汉字梳理）** | | Zheng 1 | [丁2](http://xh.5156edu.com/html3/1666.html)[糽8](http://xh.5156edu.com/html3/17149.html)  [正5](http://xh.5156edu.com/html3/14206.html)[佂7](http://xh.5156edu.com/html3/2879.html)[征8](http://xh.5156edu.com/html3/4607.html)[姃8](http://xh.5156edu.com/html3/6439.html)[怔8](http://xh.5156edu.com/html3/10062.html)[炡9](http://xh.5156edu.com/html3/10967.html)[政9](http://xh.5156edu.com/html3/12557.html)[钲10](http://xh.5156edu.com/html3/14560.html)[眐10](http://xh.5156edu.com/html3/14902.html)[症10](http://xh.5156edu.com/html3/15127.html)[聇11](http://xh.5156edu.com/html3/16773.html)  [鉦13](http://xh.5156edu.com/html3/19721.html)[徰13](http://xh.5156edu.com/html3/4655.html)  [争6](http://xh.5156edu.com/html3/1935.html)[诤8](http://xh.5156edu.com/html3/3499.html)[爭8](http://xh.5156edu.com/html3/14193.html)[埩9](http://xh.5156edu.com/html3/9558.html)[挣9](http://xh.5156edu.com/html3/7711.html)[狰9](http://xh.5156edu.com/html3/6875.html)[峥9](http://xh.5156edu.com/html3/7109.html)[铮11](http://xh.5156edu.com/html3/14600.html)[掙11](http://xh.5156edu.com/html3/7882.html)[崢11](http://xh.5156edu.com/html3/7206.html)[猙11](http://xh.5156edu.com/html3/6928.html)  [筝12](http://xh.5156edu.com/html3/17823.html)[踭13](http://xh.5156edu.com/html3/19384.html)[睜13](http://xh.5156edu.com/html3/14972.html)[錚14](http://xh.5156edu.com/html3/19815.html)[箏14](http://xh.5156edu.com/html3/17909.html)[鬇16](http://xh.5156edu.com/html3/21214.html)  [烝10](http://xh.5156edu.com/html3/10596.html)[脀10](http://xh.5156edu.com/html3/13971.html)[蒸13](http://xh.5156edu.com/html3/4194.html)[篜16](http://xh.5156edu.com/html3/17982.html)  [崝11](http://xh.5156edu.com/html3/7205.html)[鲭16](http://xh.5156edu.com/html3/20583.html)  [揁12](http://xh.5156edu.com/html3/7945.html)[媜12](http://xh.5156edu.com/html3/6660.html)  [癥20](http://xh.5156edu.com/html3/15290.html)  [鏳20](http://xh.5156edu.com/html3/20165.html) | | Zheng 3 | [氶5](http://xh.5156edu.com/html3/13187.html)[拯9](http://xh.5156edu.com/html3/7712.html)  [抍7](http://xh.5156edu.com/html3/7616.html) [掟11](http://xh.5156edu.com/html3/7857.html) [撜15](http://xh.5156edu.com/html3/8104.html)  [晸13](http://xh.5156edu.com/html3/12907.html)[整16](http://xh.5156edu.com/html3/12602.html)  [愸14](http://xh.5156edu.com/html3/13740.html) | | Zheng 4 | [正5](http://xh.5156edu.com/html3/14206.html)[证7](http://xh.5156edu.com/html3/3473.html)[怔8](http://xh.5156edu.com/html3/10062.html)[政9](http://xh.5156edu.com/html3/12557.html)[症10](http://xh.5156edu.com/html3/15127.html)[証12](http://xh.5156edu.com/html3/18719.html)[靕13](http://xh.5156edu.com/html3/20385.html)[鴊16](http://xh.5156edu.com/html3/21630.html) [證19](http://xh.5156edu.com/html3/19009.html)  [争6](http://xh.5156edu.com/html3/1935.html)[诤8](http://xh.5156edu.com/html3/3499.html)[挣9](http://xh.5156edu.com/html3/7711.html)[9](http://xh.5156edu.com/html3/25615.html)[铮11](http://xh.5156edu.com/html3/14600.html)[諍13](http://xh.5156edu.com/html3/18777.html)[14](http://xh.5156edu.com/html3/25616.html)  [郑8](http://xh.5156edu.com/html3/2268.html)[鄭14](http://xh.5156edu.com/html3/2448.html)  [幁12](http://xh.5156edu.com/html3/5310.html)  [塣13](http://xh.5156edu.com/html3/9761.html) | |

**Zhi**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [支4](http://xh.5156edu.com/html3/14200.html)[直8](http://xh.5156edu.com/html3/14846.html)[止4](http://xh.5156edu.com/html3/14205.html) [制8](http://xh.5156edu.com/html3/2003.html)

**号表法no.indicator:** 1 2 3 4

**全家福family photo:**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **纲（四声）** | **目（汉字梳理）** | | Zhi 1 | [之3](http://xh.5156edu.com/html3/1749.html)[芝6](http://xh.5156edu.com/html3/3636.html)  [氏4](http://xh.5156edu.com/html3/12995.html)[汦7](http://xh.5156edu.com/html3/8300.html)[泜8](http://xh.5156edu.com/html3/8380.html)[祗9](http://xh.5156edu.com/html3/13029.html)[胝9](http://xh.5156edu.com/html3/13913.html)[疷10](http://xh.5156edu.com/html3/15133.html)  [支4](http://xh.5156edu.com/html3/14200.html)[汥7](http://xh.5156edu.com/html3/8313.html)[吱7](http://xh.5156edu.com/html3/5452.html)[肢8](http://xh.5156edu.com/html3/13873.html)[枝8](http://xh.5156edu.com/html3/11504.html)[秓9](http://xh.5156edu.com/html3/14333.html)[衼9](http://xh.5156edu.com/html3/16039.html)[馶14](http://xh.5156edu.com/html3/21308.html)[鳷15](http://xh.5156edu.com/html3/21586.html)  [只5](http://xh.5156edu.com/html3/5376.html)[织8](http://xh.5156edu.com/html3/9303.html)[胑9](http://xh.5156edu.com/html3/13928.html)  [卮5](http://xh.5156edu.com/html3/10755.html)[巵7](http://xh.5156edu.com/html3/9410.html)[栀9](http://xh.5156edu.com/html3/11585.html)[梔11](http://xh.5156edu.com/html3/11773.html)  [汁5](http://xh.5156edu.com/html3/8230.html)  [知8](http://xh.5156edu.com/html3/15748.html)[倁10](http://xh.5156edu.com/html3/3091.html)[椥12](http://xh.5156edu.com/html3/11861.html)[蜘14](http://xh.5156edu.com/html3/16468.html)[鼅20](http://xh.5156edu.com/html3/22218.html)  [隻10](http://xh.5156edu.com/html3/20739.html)  [脂10](http://xh.5156edu.com/html3/13964.html)[栺10](http://xh.5156edu.com/html3/11719.html)[鴲17](http://xh.5156edu.com/html3/21661.html)  [祬10](http://xh.5156edu.com/html3/13045.html)[臸12](http://xh.5156edu.com/html3/17653.html)  [綕13](http://xh.5156edu.com/html3/17290.html)  [禔13](http://xh.5156edu.com/html3/13076.html)  [稙13](http://xh.5156edu.com/html3/14393.html)[憄15](http://xh.5156edu.com/html3/13762.html)  [搘13](http://xh.5156edu.com/html3/7984.html)[榰14](http://xh.5156edu.com/html3/12055.html)  [織18](http://xh.5156edu.com/html3/17460.html)[蘵21](http://xh.5156edu.com/html3/4570.html) | | Zhi 2 | [执6](http://xh.5156edu.com/html3/7548.html)[執11](http://xh.5156edu.com/html3/9645.html)[漐15](http://xh.5156edu.com/html3/13219.html)[慹15](http://xh.5156edu.com/html3/13761.html)[絷12](http://xh.5156edu.com/html3/17077.html)[縶17](http://xh.5156edu.com/html3/17098.html)  [侄8](http://xh.5156edu.com/html3/2923.html)[姪9](http://xh.5156edu.com/html3/6465.html)  [妷8](http://xh.5156edu.com/html3/6421.html)  [直8](http://xh.5156edu.com/html3/14846.html)[值10](http://xh.5156edu.com/html3/3049.html)[値10](http://xh.5156edu.com/html3/3092.html)[淔11](http://xh.5156edu.com/html3/8637.html)[埴11](http://xh.5156edu.com/html3/9634.html)[殖12](http://xh.5156edu.com/html3/10713.html)[植12](http://xh.5156edu.com/html3/11862.html)[犆12](http://xh.5156edu.com/html3/12477.html)[禃12](http://xh.5156edu.com/html3/13069.html)  [聀10](http://xh.5156edu.com/html3/16762.html)[职11](http://xh.5156edu.com/html3/16769.html)  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[摨15](http://xh.5156edu.com/html3/8116.html)[穉17](http://xh.5156edu.com/html3/14457.html)  [隲16](http://xh.5156edu.com/html3/2476.html)  [鴙16](http://xh.5156edu.com/html3/21631.html)  [擿17](http://xh.5156edu.com/html3/8151.html)  [豑20](http://xh.5156edu.com/html3/18438.html)[豒25](http://xh.5156edu.com/html3/18439.html) | | ？ | [俧9](http://xh.5156edu.com/html3/3010.html)[潌14](http://xh.5156edu.com/html3/8986.html) | |

**Zhong**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [忠8](http://xh.5156edu.com/html3/13641.html)[肿8](http://xh.5156edu.com/html3/13874.html) [众6](http://xh.5156edu.com/html3/2719.html)

**号表法no.indicator:** 1 2 3 4

**全家福family photo:**

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| |  |  | | --- | --- | | **纲（四声）** | **目（汉字梳理）** | | Zhong 1 | [中4](http://xh.5156edu.com/html3/1617.html)[忠8](http://xh.5156edu.com/html3/13641.html)[盅9](http://xh.5156edu.com/html3/14794.html)[钟9](http://xh.5156edu.com/html3/14531.html)[舯10](http://xh.5156edu.com/html3/17670.html)[鈡12](http://xh.5156edu.com/html3/19716.html)  [伀6](http://xh.5156edu.com/html3/2828.html)[彸7](http://xh.5156edu.com/html3/4602.html)[忪7](http://xh.5156edu.com/html3/10024.html)[妐7](http://xh.5156edu.com/html3/6401.html)[炂8](http://xh.5156edu.com/html3/10936.html)[衳9](http://xh.5156edu.com/html3/16040.html)[蜙14](http://xh.5156edu.com/html3/16496.html)  [汷6](http://xh.5156edu.com/html3/8260.html)  [刣7](http://xh.5156edu.com/html3/1989.html)  [泈8](http://xh.5156edu.com/html3/8400.html)[终8](http://xh.5156edu.com/html3/9304.html)[柊9](http://xh.5156edu.com/html3/11589.html)[終11](http://xh.5156edu.com/html3/17196.html)[蔠14](http://xh.5156edu.com/html3/4322.html)[鴤16](http://xh.5156edu.com/html3/21632.html)[螽17](http://xh.5156edu.com/html3/16610.html)[鼨18](http://xh.5156edu.com/html3/22257.html)  [衷10](http://xh.5156edu.com/html3/22451.html)  [锺14](http://xh.5156edu.com/html3/14682.html)[鍾17](http://xh.5156edu.com/html3/20044.html)[蹱19](http://xh.5156edu.com/html3/19513.html)[鐘20](http://xh.5156edu.com/html3/20154.html)[籦23](http://xh.5156edu.com/html3/18090.html)  [幒14](http://xh.5156edu.com/html3/5331.html)  [銿15](http://xh.5156edu.com/html3/19905.html)  [螤16](http://xh.5156edu.com/html3/16597.html) | | Zhong 3 | [肿8](http://xh.5156edu.com/html3/13874.html)[种9](http://xh.5156edu.com/html3/14319.html)  [冢10](http://xh.5156edu.com/html3/2677.html)[塚13](http://xh.5156edu.com/html3/9743.html)  [喠12](http://xh.5156edu.com/html3/5817.html)[尰12](http://xh.5156edu.com/html3/10435.html)[煄13](http://xh.5156edu.com/html3/11128.html)[腫13](http://xh.5156edu.com/html3/14078.html)[歱13](http://xh.5156edu.com/html3/14221.html)[種14](http://xh.5156edu.com/html3/14416.html)[瘇14](http://xh.5156edu.com/html3/15220.html)[踵16](http://xh.5156edu.com/html3/19453.html)  [徸15](http://xh.5156edu.com/html3/4664.html) | | Zhong 4 | [中4](http://xh.5156edu.com/html3/1617.html)  [众6](http://xh.5156edu.com/html3/2719.html)[眾11](http://xh.5156edu.com/html3/14917.html)[衆12](http://xh.5156edu.com/html3/22507.html)  [仲6](http://xh.5156edu.com/html3/2802.html)[妕7](http://xh.5156edu.com/html3/6402.html)[狆7](http://xh.5156edu.com/html3/6842.html)[祌8](http://xh.5156edu.com/html3/13016.html)[种9](http://xh.5156edu.com/html3/14319.html)[衶9](http://xh.5156edu.com/html3/16041.html)[茽9](http://xh.5156edu.com/html3/3857.html)[蚛10](http://xh.5156edu.com/html3/16312.html)[筗12](http://xh.5156edu.com/html3/17837.html)  [重9](http://xh.5156edu.com/html3/18564.html)[偅11](http://xh.5156edu.com/html3/3130.html)[堹12](http://xh.5156edu.com/html3/9718.html)[媑12](http://xh.5156edu.com/html3/6661.html)[諥16](http://xh.5156edu.com/html3/18923.html) | |

**Zhou**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [州6](http://xh.5156edu.com/html3/4682.html)[轴9](http://xh.5156edu.com/html3/10651.html)[肘7](http://xh.5156edu.com/html3/13841.html) [咒8](http://xh.5156edu.com/html3/5513.html)

**号表法no.indicator:** 1 2 3 4

**全家福family photo:**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **纲（四声）** | **目（汉字梳理）** | | Zhou 1 | [州6](http://xh.5156edu.com/html3/4682.html)[洲9](http://xh.5156edu.com/html3/8452.html)[喌12](http://xh.5156edu.com/html3/5803.html)[銂14](http://xh.5156edu.com/html3/19847.html)  [舟6](http://xh.5156edu.com/html3/17657.html)[侜8](http://xh.5156edu.com/html3/2924.html)[烐10](http://xh.5156edu.com/html3/11009.html)[珘10](http://xh.5156edu.com/html3/13382.html)[辀10](http://xh.5156edu.com/html3/10659.html)[鸼11](http://xh.5156edu.com/html3/15339.html)[矪11](http://xh.5156edu.com/html3/15755.html)[輈13](http://xh.5156edu.com/html3/18313.html)[鵃17](http://xh.5156edu.com/html3/21640.html) [炿9](http://xh.5156edu.com/html3/10968.html)  [诌7](http://xh.5156edu.com/html3/3474.html)[謅17](http://xh.5156edu.com/html3/18936.html)  [周8](http://xh.5156edu.com/html3/5512.html)[调10](http://xh.5156edu.com/html3/3515.html)[郮10](http://xh.5156edu.com/html3/2359.html)[婤11](http://xh.5156edu.com/html3/6570.html)[淍11](http://xh.5156edu.com/html3/8640.html)[啁11](http://xh.5156edu.com/html3/5726.html)[週11](http://xh.5156edu.com/html3/4810.html)[徟11](http://xh.5156edu.com/html3/4641.html)[赒12](http://xh.5156edu.com/html3/10563.html)[輖15](http://xh.5156edu.com/html3/18350.html)  [賙15](http://xh.5156edu.com/html3/18185.html)[霌16](http://xh.5156edu.com/html3/20677.html)[騆18](http://xh.5156edu.com/html3/21380.html)  [诪9](http://xh.5156edu.com/html3/3513.html)[嚋17](http://xh.5156edu.com/html3/6032.html)[譸21](http://xh.5156edu.com/html3/19033.html)  [粥12](http://xh.5156edu.com/html3/16980.html)  [盩17](http://xh.5156edu.com/html3/14831.html) | | Zhou 2 | [妯8](http://xh.5156edu.com/html3/6419.html)[轴9](http://xh.5156edu.com/html3/10651.html)[軸12](http://xh.5156edu.com/html3/18283.html) | | Zhou 3 | [肘7](http://xh.5156edu.com/html3/13841.html)[疛8](http://xh.5156edu.com/html3/15094.html)  [帚8](http://xh.5156edu.com/html3/5263.html)[菷11](http://xh.5156edu.com/html3/4046.html)[箒14](http://xh.5156edu.com/html3/5328.html)[鯞19](http://xh.5156edu.com/html3/22031.html)  [晭12](http://xh.5156edu.com/html3/12885.html)[睭13](http://xh.5156edu.com/html3/14973.html) | | Zhou 4 | [纣6](http://xh.5156edu.com/html3/9269.html)[荮9](http://xh.5156edu.com/html3/3826.html)[紂9](http://xh.5156edu.com/html3/17153.html)[酎10](http://xh.5156edu.com/html3/19091.html)[葤12](http://xh.5156edu.com/html3/4097.html)  [伷7](http://xh.5156edu.com/html3/2880.html)[宙8](http://xh.5156edu.com/html3/6250.html)[轴9](http://xh.5156edu.com/html3/10651.html)[粙11](http://xh.5156edu.com/html3/16976.html)[舳11](http://xh.5156edu.com/html3/17684.html)[駎15](http://xh.5156edu.com/html3/21337.html)  [7](http://xh.5156edu.com/html3/22475.html)[绉8](http://xh.5156edu.com/html3/9305.html)[8](http://xh.5156edu.com/html3/25731.html)[皱10](http://xh.5156edu.com/html3/15395.html)[12](http://xh.5156edu.com/html3/22474.html)[13](http://xh.5156edu.com/html3/22482.html)[皺15](http://xh.5156edu.com/html3/15405.html)[縐16](http://xh.5156edu.com/html3/17413.html)  [呪8](http://xh.5156edu.com/html3/5515.html)[祝9](http://xh.5156edu.com/html3/13030.html)[詋12](http://xh.5156edu.com/html3/18754.html) [咒8](http://xh.5156edu.com/html3/5513.html)  [冑9](http://xh.5156edu.com/html3/2563.html)[胄9](http://xh.5156edu.com/html3/13914.html)  [昼9](http://xh.5156edu.com/html3/12798.html)[晝11](http://xh.5156edu.com/html3/12853.html)  [咮9](http://xh.5156edu.com/html3/5590.html) [噣16](http://xh.5156edu.com/html3/6004.html)  [甃13](http://xh.5156edu.com/html3/13256.html)[僽15](http://xh.5156edu.com/html3/3280.html)  [骤17](http://xh.5156edu.com/html3/6165.html)[驟24](http://xh.5156edu.com/html3/21464.html)  [繇17](http://xh.5156edu.com/html3/17096.html)  [籀19](http://xh.5156edu.com/html3/18040.html)[籕20](http://xh.5156edu.com/html3/18066.html)  [籒21](http://xh.5156edu.com/html3/18072.html) | | ? | [8](http://xh.5156edu.com/html3/25618.html)[碡14](http://xh.5156edu.com/html3/15606.html)[駲16](http://xh.5156edu.com/html3/21355.html) | |

**Zhu**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [朱6](http://xh.5156edu.com/html3/11418.html)[竹6](http://xh.5156edu.com/html3/17736.html)[主5](http://xh.5156edu.com/html3/1752.html) [助7](http://xh.5156edu.com/html3/2582.html)

**号表法no.indicator:** 1 2 3 4

**全家福family photo:**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **纲（四声）** | **目（汉字梳理）** | | Zhu 1 | [朱6](http://xh.5156edu.com/html3/11418.html)[邾8](http://xh.5156edu.com/html3/2270.html)[侏8](http://xh.5156edu.com/html3/2925.html)[诛8](http://xh.5156edu.com/html3/3500.html)[茱9](http://xh.5156edu.com/html3/3827.html)[洙9](http://xh.5156edu.com/html3/8453.html)[珠10](http://xh.5156edu.com/html3/13357.html)[株10](http://xh.5156edu.com/html3/11683.html)[秼11](http://xh.5156edu.com/html3/14370.html)[铢11](http://xh.5156edu.com/html3/14602.html)[硃11](http://xh.5156edu.com/html3/15510.html)  [袾11](http://xh.5156edu.com/html3/16084.html)[蛛12](http://xh.5156edu.com/html3/16392.html)[絑12](http://xh.5156edu.com/html3/17223.html)[誅13](http://xh.5156edu.com/html3/18769.html)[跦13](http://xh.5156edu.com/html3/19379.html)[銖14](http://xh.5156edu.com/html3/19808.html)[駯16](http://xh.5156edu.com/html3/21356.html)[鴸17](http://xh.5156edu.com/html3/21662.html)[鮢17](http://xh.5156edu.com/html3/21968.html)[鼄18](http://xh.5156edu.com/html3/22216.html)  [诸10](http://xh.5156edu.com/html3/3529.html)[猪11](http://xh.5156edu.com/html3/6917.html)[槠14](http://xh.5156edu.com/html3/12056.html)[蝫14](http://xh.5156edu.com/html3/16501.html)[潴14](http://xh.5156edu.com/html3/8929.html)[蕏14](http://xh.5156edu.com/html3/4289.html)[橥15](http://xh.5156edu.com/html3/12132.html)[諸15](http://xh.5156edu.com/html3/18841.html)[豬15](http://xh.5156edu.com/html3/18627.html)[藸18](http://xh.5156edu.com/html3/4489.html)  [瀦18](http://xh.5156edu.com/html3/9160.html)[鯺19](http://xh.5156edu.com/html3/22032.html)[櫫19](http://xh.5156edu.com/html3/12347.html)[櫧19](http://xh.5156edu.com/html3/12348.html)[蠩21](http://xh.5156edu.com/html3/16710.html) | | Zhu 2 | [术5](http://xh.5156edu.com/html3/11405.html)[炢9](http://xh.5156edu.com/html3/10969.html)  [竹6](http://xh.5156edu.com/html3/17736.html)[6](http://xh.5156edu.com/html3/25591.html)[竺8](http://xh.5156edu.com/html3/17738.html)[笁9](http://xh.5156edu.com/html3/17744.html)  [柚9](http://xh.5156edu.com/html3/11581.html)  [茿9](http://xh.5156edu.com/html3/3858.html)  [烛10](http://xh.5156edu.com/html3/10982.html)  [逐10](http://xh.5156edu.com/html3/4786.html)  [窋10](http://xh.5156edu.com/html3/15945.html)[笜11](http://xh.5156edu.com/html3/17803.html)  [逫11](http://xh.5156edu.com/html3/4815.html)  [蓫13](http://xh.5156edu.com/html3/4210.html)[瘃13](http://xh.5156edu.com/html3/15184.html)[篴16](http://xh.5156edu.com/html3/17971.html)[鱁21](http://xh.5156edu.com/html3/22094.html)  [燭17](http://xh.5156edu.com/html3/11228.html)[蠋19](http://xh.5156edu.com/html3/16685.html)[躅20](http://xh.5156edu.com/html3/19524.html)  [劚23](http://xh.5156edu.com/html3/2085.html)[孎24](http://xh.5156edu.com/html3/6817.html)[灟24](http://xh.5156edu.com/html3/9247.html)[爥25](http://xh.5156edu.com/html3/11287.html)[斸25](http://xh.5156edu.com/html3/11336.html)[欘25](http://xh.5156edu.com/html3/12414.html)[曯25](http://xh.5156edu.com/html3/12994.html)[蠾27](http://xh.5156edu.com/html3/16739.html)[钃29](http://xh.5156edu.com/html3/20271.html) | | Zhu 3 | [丶1](http://xh.5156edu.com/html3/1747.html)  [主5](http://xh.5156edu.com/html3/1752.html)[宔8](http://xh.5156edu.com/html3/6254.html)[拄8](http://xh.5156edu.com/html3/7657.html)[柱9](http://xh.5156edu.com/html3/11590.html)[罜10](http://xh.5156edu.com/html3/15785.html)  [劯7](http://xh.5156edu.com/html3/2593.html)  [陼10](http://xh.5156edu.com/html3/2346.html)[帾11](http://xh.5156edu.com/html3/5296.html)[渚11](http://xh.5156edu.com/html3/8618.html)[煮12](http://xh.5156edu.com/html3/10607.html)[煑12](http://xh.5156edu.com/html3/11053.html)[褚13](http://xh.5156edu.com/html3/16116.html)[濐15](http://xh.5156edu.com/html3/9065.html)  [属12](http://xh.5156edu.com/html3/7437.html)[嘱15](http://xh.5156edu.com/html3/5958.html)[瞩17](http://xh.5156edu.com/html3/15035.html)[囑24](http://xh.5156edu.com/html3/6104.html)[矚26](http://xh.5156edu.com/html3/15078.html)  [詝12](http://xh.5156edu.com/html3/18717.html)  [燝16](http://xh.5156edu.com/html3/11212.html)  [麈16](http://xh.5156edu.com/html3/21505.html)  [鸀24](http://xh.5156edu.com/html3/21846.html) | | Zhu 4 | [主5](http://xh.5156edu.com/html3/1752.html)[住7](http://xh.5156edu.com/html3/2858.html)[驻8](http://xh.5156edu.com/html3/6128.html)[迬8](http://xh.5156edu.com/html3/4745.html)[注8](http://xh.5156edu.com/html3/8378.html)[柱9](http://xh.5156edu.com/html3/11590.html)[炷9](http://xh.5156edu.com/html3/10952.html)[疰10](http://xh.5156edu.com/html3/15129.html)[砫10](http://xh.5156edu.com/html3/15484.html)[蛀11](http://xh.5156edu.com/html3/16353.html)[紸11](http://xh.5156edu.com/html3/17216.html)[軴12](http://xh.5156edu.com/html3/18303.html)[註12](http://xh.5156edu.com/html3/18728.html)[跓12](http://xh.5156edu.com/html3/19355.html)[嵀12](http://xh.5156edu.com/html3/7253.html)[鉒13](http://xh.5156edu.com/html3/19785.html)[飳13](http://xh.5156edu.com/html3/20422.html)[樦15](http://xh.5156edu.com/html3/12185.html)[駐15](http://xh.5156edu.com/html3/21324.html)  [宁5](http://xh.5156edu.com/html3/6223.html)[佇7](http://xh.5156edu.com/html3/2881.html)[坾8](http://xh.5156edu.com/html3/9524.html)[竚10](http://xh.5156edu.com/html3/14745.html)[眝10](http://xh.5156edu.com/html3/14903.html)[紵11](http://xh.5156edu.com/html3/17197.html)[羜11](http://xh.5156edu.com/html3/25567.html)[貯12](http://xh.5156edu.com/html3/18138.html)  [伫6](http://xh.5156edu.com/html3/2803.html)[苎7](http://xh.5156edu.com/html3/3686.html)[纻7](http://xh.5156edu.com/html3/9287.html)[贮8](http://xh.5156edu.com/html3/10525.html)  [芧7](http://xh.5156edu.com/html3/3680.html)[杼8](http://xh.5156edu.com/html3/11505.html)  [助7](http://xh.5156edu.com/html3/2582.html)[莇10](http://xh.5156edu.com/html3/3937.html)[筯13](http://xh.5156edu.com/html3/17853.html)  [拀8](http://xh.5156edu.com/html3/7664.html)[祝9](http://xh.5156edu.com/html3/13030.html)[柷9](http://xh.5156edu.com/html3/11634.html)  [殶9](http://xh.5156edu.com/html3/13162.html)  [壴9](http://xh.5156edu.com/html3/7511.html)  [祩10](http://xh.5156edu.com/html3/13046.html)  [著11](http://xh.5156edu.com/html3/3996.html)[箸14](http://xh.5156edu.com/html3/17888.html)[翥14](http://xh.5156edu.com/html3/17608.html)  [庶11](http://xh.5156edu.com/html3/5154.html)  [铸12](http://xh.5156edu.com/html3/14632.html)[鋳15](http://xh.5156edu.com/html3/19908.html)[鑄22](http://xh.5156edu.com/html3/20216.html)  [筑12](http://xh.5156edu.com/html3/17824.html)[築16](http://xh.5156edu.com/html3/17965.html)[篫16](http://xh.5156edu.com/html3/17983.html) [簗17](http://xh.5156edu.com/html3/18007.html)  [馵13](http://xh.5156edu.com/html3/21295.html)  [麆16](http://xh.5156edu.com/html3/21506.html) | | ? | [墸14](http://xh.5156edu.com/html3/9805.html) | |

**Zhua**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [抓7](http://xh.5156edu.com/html3/7595.html) [爪4](http://xh.5156edu.com/html3/14228.html)

**号表法no.indicator:** 1 2 3 4

**全家福family photo:**

|  |  |
| --- | --- |
| **纲（四声）** | **目（汉字梳理）** |
| Zhua 1 | [抓7](http://xh.5156edu.com/html3/7595.html)  [挝9](http://xh.5156edu.com/html3/7704.html)[撾14](http://xh.5156edu.com/html3/8065.html)[檛15](http://xh.5156edu.com/html3/12133.html)[膼15](http://xh.5156edu.com/html3/14130.html)[簻17](http://xh.5156edu.com/html3/17993.html)  [髽17](http://xh.5156edu.com/html3/21216.html) |
| Zhua 3 | [爪4](http://xh.5156edu.com/html3/14228.html) |

**Zhuai**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [拽9](http://xh.5156edu.com/html3/7708.html)[转8](http://xh.5156edu.com/html3/10640.html) [跩13](http://xh.5156edu.com/html3/19372.html) [拽9](http://xh.5156edu.com/html3/7708.html)

**号表法no.indicator:** 1 2 3 4

**全家福family photo:**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **纲（四声）** | **目（汉字梳理）** | | Zhuai 1 | [拽9](http://xh.5156edu.com/html3/7708.html) | | Zhuai 2 | [转8](http://xh.5156edu.com/html3/10640.html) | | Zhuai 3 | [跩13](http://xh.5156edu.com/html3/19372.html) | | Zhuai 4 | [拽9](http://xh.5156edu.com/html3/7708.html) | |

**Zhuan**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [专4](http://xh.5156edu.com/html3/1684.html) [转8](http://xh.5156edu.com/html3/10640.html) [赚14](http://xh.5156edu.com/html3/10569.html)

**号表法no.indicator:** 1 2 3 4

**全家福family photo:**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **纲(四声）** | **目（汉字梳理）** | | Zhuan 1 | [专4](http://xh.5156edu.com/html3/1684.html)[砖9](http://xh.5156edu.com/html3/15449.html)[9](http://xh.5156edu.com/html3/25745.html)  [叀8](http://xh.5156edu.com/html3/3391.html)  [専9](http://xh.5156edu.com/html3/4914.html)[專11](http://xh.5156edu.com/html3/4920.html)[鄟13](http://xh.5156edu.com/html3/2439.html)[嫥14](http://xh.5156edu.com/html3/6725.html)[塼14](http://xh.5156edu.com/html3/9780.html)[甎15](http://xh.5156edu.com/html3/13264.html)[瑼15](http://xh.5156edu.com/html3/13528.html)[膞15](http://xh.5156edu.com/html3/14118.html)[磗15](http://xh.5156edu.com/html3/15639.html)[磚16](http://xh.5156edu.com/html3/15658.html)  [鱄22](http://xh.5156edu.com/html3/22111.html)  [颛15](http://xh.5156edu.com/html3/22370.html)[諯16](http://xh.5156edu.com/html3/18924.html)[顓18](http://xh.5156edu.com/html3/21134.html)  [蟤18](http://xh.5156edu.com/html3/16673.html) | | Zhuan 3 | [转8](http://xh.5156edu.com/html3/10640.html)[竱16](http://xh.5156edu.com/html3/14769.html)[轉18](http://xh.5156edu.com/html3/18380.html)  [孨9](http://xh.5156edu.com/html3/10486.html) | | Zhuan 4 | [传6](http://xh.5156edu.com/html3/2773.html)[转8](http://xh.5156edu.com/html3/10640.html)[啭11](http://xh.5156edu.com/html3/5727.html)  [沌7](http://xh.5156edu.com/html3/8265.html)  [灷7](http://xh.5156edu.com/html3/10905.html)  [転11](http://xh.5156edu.com/html3/18278.html)  [堟12](http://xh.5156edu.com/html3/9719.html)[蒃12](http://xh.5156edu.com/html3/4152.html)[瑑13](http://xh.5156edu.com/html3/13466.html)[腞13](http://xh.5156edu.com/html3/14082.html)[篆15](http://xh.5156edu.com/html3/17922.html)  [赚14](http://xh.5156edu.com/html3/10569.html)[賺17](http://xh.5156edu.com/html3/18206.html)  [僎14](http://xh.5156edu.com/html3/3272.html)[馔15](http://xh.5156edu.com/html3/7500.html)[撰15](http://xh.5156edu.com/html3/8087.html)[襈17](http://xh.5156edu.com/html3/16200.html)[譔19](http://xh.5156edu.com/html3/18984.html)[饌20](http://xh.5156edu.com/html3/20506.html)  [篹16](http://xh.5156edu.com/html3/17963.html)[籑21](http://xh.5156edu.com/html3/18067.html)  [縳17](http://xh.5156edu.com/html3/17443.html)[囀21](http://xh.5156edu.com/html3/6087.html) | |

**Zhuang**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [庄6](http://xh.5156edu.com/html3/5105.html) [奘10](http://xh.5156edu.com/html3/4976.html) [状7](http://xh.5156edu.com/html3/12710.html)

**号表法no.indicator:** 1 2 3 4

**全家福family photo:**

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| --- | --- |
| **纲（四声）** | **目（汉字梳理）** |
| Zhuang 1 | [庄6](http://xh.5156edu.com/html3/5105.html)[庒7](http://xh.5156edu.com/html3/5116.html)[荘9](http://xh.5156edu.com/html3/3830.html)[莊10](http://xh.5156edu.com/html3/3938.html)[娤10](http://xh.5156edu.com/html3/6537.html)[桩10](http://xh.5156edu.com/html3/11684.html)[梉11](http://xh.5156edu.com/html3/11815.html)[粧12](http://xh.5156edu.com/html3/16984.html)[装12](http://xh.5156edu.com/html3/22428.html)[裝13](http://xh.5156edu.com/html3/22498.html)[糚16](http://xh.5156edu.com/html3/17037.html)  [妆6](http://xh.5156edu.com/html3/6354.html)[妝7](http://xh.5156edu.com/html3/6384.html)  [湷12](http://xh.5156edu.com/html3/8765.html)[樁15](http://xh.5156edu.com/html3/12135.html) |
| Zhuang 3 | [奘10](http://xh.5156edu.com/html3/4976.html) |
| Zhuang 4 | [壮6](http://xh.5156edu.com/html3/7505.html)[壯7](http://xh.5156edu.com/html3/7508.html)[状7](http://xh.5156edu.com/html3/12710.html)[狀8](http://xh.5156edu.com/html3/12711.html)[焋11](http://xh.5156edu.com/html3/11043.html)  [壵9](http://xh.5156edu.com/html3/7512.html)  [僮14](http://xh.5156edu.com/html3/3243.html)[幢15](http://xh.5156edu.com/html3/5332.html)[撞15](http://xh.5156edu.com/html3/8088.html)  [戆25](http://xh.5156edu.com/html3/13793.html) |

**Zhui**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [锥13](http://xh.5156edu.com/html3/14659.html) [沝8](http://xh.5156edu.com/html3/13199.html) [缀11](http://xh.5156edu.com/html3/9352.html)

**号表法no.indicator:** 1 2 3 4

**全家福family photo:**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **纲（四声）** | **目（汉字梳理）** | | Zhuī 1 | [隹8](http://xh.5156edu.com/html3/20735.html)[骓11](http://xh.5156edu.com/html3/6150.html)[椎12](http://xh.5156edu.com/html3/11822.html)[锥13](http://xh.5156edu.com/html3/14659.html)[錐16](http://xh.5156edu.com/html3/19932.html)[騅18](http://xh.5156edu.com/html3/21379.html)[鵻19](http://xh.5156edu.com/html3/21732.html)  [追9](http://xh.5156edu.com/html3/4760.html) | | Zhuī 3 | [沝8](http://xh.5156edu.com/html3/13199.html) | | Zhuī 4 | [坠7](http://xh.5156edu.com/html3/9465.html)[墜14](http://xh.5156edu.com/html3/9785.html)[礈17](http://xh.5156edu.com/html3/15696.html)  [笍10](http://xh.5156edu.com/html3/17760.html)  [娷11](http://xh.5156edu.com/html3/6598.html)[甀12](http://xh.5156edu.com/html3/13254.html)  [缀11](http://xh.5156edu.com/html3/9352.html)[腏12](http://xh.5156edu.com/html3/14041.html)[畷13](http://xh.5156edu.com/html3/15898.html)[綴14](http://xh.5156edu.com/html3/17324.html)[醊15](http://xh.5156edu.com/html3/19146.html)[錣16](http://xh.5156edu.com/html3/19915.html)  [缒12](http://xh.5156edu.com/html3/9378.html)[膇13](http://xh.5156edu.com/html3/14074.html)[縋15](http://xh.5156edu.com/html3/17364.html)  [惴12](http://xh.5156edu.com/html3/10233.html)[硾13](http://xh.5156edu.com/html3/15573.html)[諈15](http://xh.5156edu.com/html3/18882.html)  [赘14](http://xh.5156edu.com/html3/10570.html)[贅17](http://xh.5156edu.com/html3/18204.html)  [鑆22](http://xh.5156edu.com/html3/20230.html) | |
| |  | | --- | |  | |

**Zhun**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [谆10](http://xh.5156edu.com/html3/3530.html) [准10](http://xh.5156edu.com/html3/1840.html) [訰11](http://xh.5156edu.com/html3/18712.html)

**号表法no.indicator:** 1 2 3 4

**全家福family photo:**

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| --- | --- |
| **纲（四声）** | **目（汉字梳理）** |
| Zhun 1 | [屯4](http://xh.5156edu.com/html3/4593.html)[迍7](http://xh.5156edu.com/html3/4718.html)[肫8](http://xh.5156edu.com/html3/13875.html)[窀9](http://xh.5156edu.com/html3/15932.html)  [宒7](http://xh.5156edu.com/html3/6239.html)  [谆10](http://xh.5156edu.com/html3/3530.html)[啍11](http://xh.5156edu.com/html3/5755.html)[諄15](http://xh.5156edu.com/html3/18855.html)  [衠16](http://xh.5156edu.com/html3/25558.html) |
| Zhun 3 | [准10](http://xh.5156edu.com/html3/1840.html)[凖12](http://xh.5156edu.com/html3/1849.html)[準13](http://xh.5156edu.com/html3/8860.html)  [埻11](http://xh.5156edu.com/html3/9635.html)[綧14](http://xh.5156edu.com/html3/17344.html) |
| Zhun 4 | [訰11](http://xh.5156edu.com/html3/18712.html)  [稕13](http://xh.5156edu.com/html3/14408.html) |

**Zhuo**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [拙8](http://xh.5156edu.com/html3/7658.html) [浊9](http://xh.5156edu.com/html3/8454.html)

**号表法no.indicator:** 1 2 3 4

**全家福family photo:**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **纲（四声）** | **目（汉字梳理）** | | Zhuo 1 | [拙8](http://xh.5156edu.com/html3/7658.html)[炪9](http://xh.5156edu.com/html3/10956.html)  [捉10](http://xh.5156edu.com/html3/7765.html)  [倬10](http://xh.5156edu.com/html3/3050.html)[桌10](http://xh.5156edu.com/html3/11685.html)[焯12](http://xh.5156edu.com/html3/11045.html)[槕14](http://xh.5156edu.com/html3/12111.html)  [棁11](http://xh.5156edu.com/html3/11766.html)[梲11](http://xh.5156edu.com/html3/11816.html)  [涿11](http://xh.5156edu.com/html3/8619.html)  [棳12](http://xh.5156edu.com/html3/11928.html)  [16](http://xh.5156edu.com/html3/25610.html)[鐯19](http://xh.5156edu.com/html3/20099.html)  [穛17](http://xh.5156edu.com/html3/14458.html)  [擢17](http://xh.5156edu.com/html3/8153.html)  [穱22](http://xh.5156edu.com/html3/14486.html) | | Zhuo 2 | [彴6](http://xh.5156edu.com/html3/4595.html)[犳6](http://xh.5156edu.com/html3/6827.html)[汋6](http://xh.5156edu.com/html3/8257.html)[圴6](http://xh.5156edu.com/html3/9445.html)[灼7](http://xh.5156edu.com/html3/10900.html)  [妰8](http://xh.5156edu.com/html3/6440.html)  [卓8](http://xh.5156edu.com/html3/3369.html)[啅11](http://xh.5156edu.com/html3/5763.html)[晫12](http://xh.5156edu.com/html3/12886.html)[琸12](http://xh.5156edu.com/html3/13450.html)[鵫19](http://xh.5156edu.com/html3/21733.html)  [叕8](http://xh.5156edu.com/html3/3604.html)[娺11](http://xh.5156edu.com/html3/6605.html)[罬13](http://xh.5156edu.com/html3/15798.html)[窡13](http://xh.5156edu.com/html3/15971.html)[諁15](http://xh.5156edu.com/html3/18883.html)  [茁8](http://xh.5156edu.com/html3/3744.html)  [浊9](http://xh.5156edu.com/html3/8454.html) [蠿27](http://xh.5156edu.com/html3/16740.html)  [斫9](http://xh.5156edu.com/html3/11322.html)[斮12](http://xh.5156edu.com/html3/11327.html)[斱12](http://xh.5156edu.com/html3/11328.html)[斲14](http://xh.5156edu.com/html3/11330.html)[斵17](http://xh.5156edu.com/html3/11334.html)  [烵10](http://xh.5156edu.com/html3/11010.html)[酌10](http://xh.5156edu.com/html3/19092.html)  [浞10](http://xh.5156edu.com/html3/8529.html)[鋜15](http://xh.5156edu.com/html3/19851.html)  [诼10](http://xh.5156edu.com/html3/3531.html)[啄11](http://xh.5156edu.com/html3/5728.html)[椓12](http://xh.5156edu.com/html3/11863.html)[琢12](http://xh.5156edu.com/html3/13432.html)[硺13](http://xh.5156edu.com/html3/15590.html)[諑15](http://xh.5156edu.com/html3/18843.html)  [丵10](http://xh.5156edu.com/html3/16014.html)  [着11](http://xh.5156edu.com/html3/14913.html)[撯14](http://xh.5156edu.com/html3/8067.html)  [禚14](http://xh.5156edu.com/html3/13089.html)  [擆14](http://xh.5156edu.com/html3/8068.html)[櫡18](http://xh.5156edu.com/html3/12342.html)  [劅15](http://xh.5156edu.com/html3/2074.html)[濁16](http://xh.5156edu.com/html3/9086.html)[斀17](http://xh.5156edu.com/html3/12542.html)[镯18](http://xh.5156edu.com/html3/14725.html)[躅20](http://xh.5156edu.com/html3/19524.html)[鐲21](http://xh.5156edu.com/html3/20201.html)  [篧16](http://xh.5156edu.com/html3/17973.html) [濯17](http://xh.5156edu.com/html3/9123.html)[擢17](http://xh.5156edu.com/html3/8153.html)[蠗20](http://xh.5156edu.com/html3/16706.html)  [缴16](http://xh.5156edu.com/html3/9404.html)  [謶18](http://xh.5156edu.com/html3/18976.html)  [灂20](http://xh.5156edu.com/html3/9212.html)  [鷟22](http://xh.5156edu.com/html3/21799.html)  [籗22](http://xh.5156edu.com/html3/18082.html)[籱30](http://xh.5156edu.com/html3/18099.html) | | ? | [窧13](http://xh.5156edu.com/html3/15972.html) | |

**Chinese-western knowledge fusion:**

**汉-英(对应)**

**Zha**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [渣12](http://xh.5156edu.com/html3/8733.html)[闸8](http://xh.5156edu.com/html3/6186.html) [眨9](http://xh.5156edu.com/html3/14863.html) [炸9](http://xh.5156edu.com/html3/10951.html)

**号表法no.indicator:** 1 2 3 4

**知识对应knowledge counterpart:**

Zha 1

渣打银行standard chartered bank of Britain

渣子dreg, scum

揸hanspan

Zha 2

闸gate

to open the floodgate打开闸门，解除限制

扎扎实实地one step at a time

扎堆pile on

扎根于to be rooted in

扎轮胎to slash tires, to take revenge

扎破to spike

Zha 3

拃一拃这条线有多长Can you measure this line with your hand?

眨眼to blink

in the blink of an eye一眨眼工夫

Zha 4

炸弹bomb

bomb vest炸弹背心

bomb scare炸弹引发的恐慌

MOAB--- massive ordnance air blast, or mother of all bombs

炸弹之母

bomb cyclone炸弹气旋(气象用语)

炸开to blast out

诈骗to crook

炸药桶 powder keg

炸玉米饼taco

诈取钱财to wring money fro sb

榨某人的血to suck blood out of sb

榨汁to juice

**Zhai**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [斋10](http://xh.5156edu.com/html3/13607.html)[宅6](http://xh.5156edu.com/html3/6229.html) [窄10](http://xh.5156edu.com/html3/15942.html) [寨14](http://xh.5156edu.com/html3/6320.html)

**号表法no.indicator:** 1 2 3 4

**知识对应knowledge counterpart:**

Zhai 1

斋 study, fast

斋月Ramadan

(开)斋to break the fast

摘录except

摘帽子to take off one’s cap

摘要abstract, digest

摘要记下to jot down

Zhai 2

宅residence

curtilage宅第，庭园

indoorsman, homebody, residential male宅男

Zhai 3

窄的narrow

Zhai 4

债debt

债权债务credit and debt

债务缠身debt-ridden

债务豁免debt-waiver

债务减免debt relief

债务上限debt ceiling

债务危机debt crisis

债务陷阱debt-trap

debt limit deal债务限制协议

indebted country债务国

Creditor country债权国

债券(quan4) bond，debenture

mortgage-based bonds抵押债券

municipal bonds市政债券

Treasury bond 国库券,公债(=government bond = state treasury stock)

债息bonus checks

债主creditor

**Zhan**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [毡9](http://xh.5156edu.com/html3/11353.html)[讝26](http://xh.5156edu.com/html3/19072.html) [展10](http://xh.5156edu.com/html3/7424.html) [战9](http://xh.5156edu.com/html3/10833.html)

**号表法no.indicator:** 1 2 3 4

**知识对应knowledge counterpart:**

Zhan 1

沾沾自喜的self-congratulatory

沾有精液的全蓝礼服semen-stained blue dress

占卜to augur

占便宜to take advantage of

占星家astrologer

占星术horoscope

Zhan 2

讝somniloquy, to talk in one’s dream

Zhan 3

展开to unfold, to unfurl

展开调查to open an investigation

展开图tile

展示to showcase, to exhibit, rollout

展示to lay out a flag bearing word “...”

展示才华to showcase the talents of...

展示能力to show one’s aptitude

展示品showpiece

展示海军力量to flex naval muscle

展示其财务能力to demonstrate one’s financial strength

展示武力in show of force

展望未来to peer into the future

展现to showcase

斩尽杀绝to overkill

斩首decapitation

崭露头角to come to the fore, budding

崭新的in mint condition

Zhan 4

战combat, war

将停战协议转化为和平协议to convert the armistice

into a peace treaty

战斗，打仗to fight the fight

combat craft战斗快艇

combat edge战斗优势

fighting prowess战斗力

shell-shocked(患)战斗疲劳症

KIA--- Killed in action战斗中死亡，阵亡

MIA---missing in action战斗中失踪

战斗基因的培养(体现在中国人神话传说中)militancy gene fostered by Chinese mythologies:

1. 燧人氏钻木取火Suirenshi drills wood to get fire
2. 大禹治水Dayu tames floods
3. 愚公移山Yugong moves barrier hill away
4. 夸父追日Kuafu chases the sun
5. 后羿射日Houyi shoots down several suns
6. 精卫填海 A bird fills up the sea with peddles
7. 刑天Beheaded man keeps fighting

战俘POW---prisoner of war

战后路线图post-war roadmap

战或逃fight or flight

战机，歼击机 fighter

四点要求4 requirements for a fighter:

隐身stealth

超机动super maneuvering

超音速巡航supersonic cruising

超态势感知supersituational awareness

Fighter brand战机品牌:

Rafale阵风(法国造)

Tornado狂风(英国造)

战利品booty

战略性思考to think strategically

战略重点(枢纽)strategic pivot

strategic depth战略纵深

战前的antibellum

战胜，击败，France beat, (defeats) Croatia to win the world cup of 2018

战胜对手to prevail over any adversaries

战胜逆境to triumph over adversity

战时应急计划maritime contingency plan

战术优势tactical advantage

战争 war

遭战争破坏的war-torn

战争较小saber-rattling

战争狂人war maniac

站不住脚的tenable

站点范围sitewide

站岗on guard

站起来鼓掌to stand ovations, to stand one’s feet

站在...一边to side with...

占...份额to account for

占据to bestride

占据中央舞台to take center stage

占领to occupy

占...便宜to make a gain of, to take advantage of

占用了宝贵的空间to take up precious space

占上风to prevail, to keep the weather，to one-up sb

占位码代码placeholder code

占一席之地to rent space

占优势to dominate, to preponderate, superiority

占有者occupant

占着茅坑不拉屎to get off the pot

蘸dip

**Zhang**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [章11](http://xh.5156edu.com/html3/14752.html) [掌12](http://xh.5156edu.com/html3/13132.html) [丈3](http://xh.5156edu.com/html3/1677.html)

**号表法no.indicator:** 1 2 3 4

**知识对应knowledge counterpart:**

Zhang 1

章程charter

-章

Leaflet, guide简章

movement乐章

seal, stamp图章

rules and regulations规章制度

disorder, higgledy-piggledy杂乱无章

樟脑, 莰酮camphor

Moth ball樟脑丸

naphthalene萘

障碍snag

张力stratch

张量tensor

Zeroth-order (rank, degree) tensor 30

First order (rank, degree) tensor 31

Second order tensor or dyad 32

Third order tensor or triad 33

Fourth order tensor or tetrad 34

Multi-order tensor or nth order tensor 3n

张量积tensor product

张贴物sticker

张望to peer over

蟑螂cockroach

Zhang 3

掌舵to helm, to take the helm, at the helmto master over

掌管国会to run congress

掌控权力grip on power

掌控一切to run the show，to run everything

掌门人concierge

掌权to take the reins

掌握to take the reins, at the helm of,

掌握自己的命运to take one’s fate into one’s hands

长to grow, growth

ingrowth向内生长

ingrowth of blood vessels长在肉内的血管

长辈eldership, one’s senior

this generation本辈

younger generation, one’s junior晚辈

长到足够高(度) to achieve its full stature

长子first-born son, eldest son

Zhang 4

丈夫husband, hubby

仗义to uphold justice

帐篷teepee, tent

marquee搭帐篷

账bill, debt, credit, account

混账bastard, scoundrel

记账to keep accounts

赖账to renege on a debt

欠账to owe a debt

账单费用billable expenses

non-billable expenses非账单费用：

flight ticket飞机票开销

medical cover医疗保险开销

to pay as you go账单到期即付

账户account 账目，赊欠账

demo account模拟账户 vs. live account真实账户

account payable vs account receivable应付账款，应收账款

**Zhao**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [招8](http://xh.5156edu.com/html3/7656.html)[着11](http://xh.5156edu.com/html3/14913.html) [找7](http://xh.5156edu.com/html3/7593.html) [照13](http://xh.5156edu.com/html3/10613.html)

**号表法no.indicator:** 1 2 3 4

**知识对应knowledge counterpart:**

Zhao 1

招标to call for bid, to issue tender

招待to fete宴请

招待或作弄trick-or-treating

招唤to summon

招回to recall

招来谴责to draw the condemnation

招来轻快的掌声to elicit a ripple of applause

招徕to drum up

招揽to solicit

招募代理人to recruit agents

招牌signage

marquee light招牌灯，跑马灯

招聘风波hiring breeze

招聘志愿者to recruit volunteers

招摇过市to strut around

招致不良政策to beget ad policy

招致恶运to spell doom

招致灾难to spell disaster

照本宣读stick to a script

照料者minder

照片提供者photo credit

肇事逃逸犯hit-and-run person

朝菌不知晦朔，蟪蛄不知春秋

ephemeral bacteria live only one month, flat pleuron cicada live only one year

朝三暮四change one’s mind often

朝思暮想，意愿清单，购物清单wishlist

wishlist economics 愿望经济

Zhao 2

(为...)着急to fret over

to rush headstrong into a summit着急任性地举行峰会

着迷的游戏potty game

着迷于to be obsessed with hegemony

着手to embark on

Zhao 3

找茬儿to pick quarrels

找岔to grouse about

找出点灵感to kick some ideas around

找到to seek out a new chief of staff

to find a way forward找到前进的路

找解决办法to seek resources

找理由to justify

找粮草to forage

(系统中的流体总爱)找平A fluid in a system always wants

to maintain its level (tap water for example)

找死to seek death

找准排卵时间to pinpoint when to ovulate

找准问题所在to pinpoint the issue

沼气biogas

Zhao 4

召唤to call, to summon, to send for

call of duty使命召唤

召集to muster

照本宣读scripted speech

照葫芦画瓢to take a leaf out of one’s book

照亮to light up

照片分享instagram (iphone应用程序)

照顾to bail out

照亮to shed light on

照料to attend to

caregiver照料者

照射to beam

照相to take photos, to film

photo op = photo opportunity媒体拍照机会

to film the traffic accident为交通事故照相

兆焦megajoule

兆亿gazillions of dollars

肇事逃逸hit-and-run

罩cage, cap, cover, shade, shield

N95 respirator mask to protect against airborne viruses呼吸防护口罩 with adaptable nose bar适应鼻梁形状

disposable mask 3-ply with elastic earloops一次性3层弹性耳挂式口罩

face shield to protect splash and splatter of fluid-borne pathogens防止液带病原洒溅的面罩

**Zhe**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [遮14](http://xh.5156edu.com/html3/4863.html)[哲10](http://xh.5156edu.com/html3/5643.html) [者8](http://xh.5156edu.com/html3/11340.html) [浙10](http://xh.5156edu.com/html3/8528.html)

**号表法no.indicator:** 1 2 3 4

**知识对应knowledge counterpart:**

Zhe 1

遮丑to hide the shame, to cover up the defect

遮羞布loin cloth, fig leaf

遮阳板visor

Zhe 2

哲wiseman, sage

哲学philosophy (love of wisdom)：the study of general and fundamental problems concerning matters such as existence, Knowledge, values, reason, mind and language

Metaphysics 玄学，形而上学

Cosmology宇宙论

Ontology实体论，存在论

Materialism唯物论

Idealism唯心论

Epistemology认识论

methodology方法论

Telelogy目的论

Axiology价值论

Nihilism 虚无主义，极端怀疑论

哲学的philosophic, philosophical

哲学家philosopher

折叠机身设计folding fuselage design

折痕crease

折角的书dog-eared book

折扣discount

steep discount大幅折扣

折磨to excruciate, to bedevil, to torture, to torment, ordeal, affliction

powerful tormentor强大的折磨者

折磨人的exruciating

gruueling hours折磨人的时间

折磨致死to torture to death

折腾to flounder

折纸手工origami

origami-like folding of RNA核糖核酸的折纸式折叠

scaffolded origami脚手架式折叠

single strand origami单链折叠

折中eclectic, tradeoff, to strike an average

折衷compromise

Zhe 3

者 -er, - or, -ant褶积

Disputant争执者

Claimant索求者，索赔者

锗germanium

褶积，卷积convolution vs deconvolution 反褶积

褶皱wrinkle

Zhe 4

蔗糖cane sugar, sucrose

辄always

这不是巧合It is no coincidence that...

这是我说的This is me speaking...

这样描述to portray sth this way

**Zhei**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:**  [这7](http://xh.5156edu.com/html3/4717.html)

**号表法no.indicator:** 1 2 3 4

**知识对应knowledge counterpart:**

Zhei 4

这年头买卖难做Trade encounters difficulty these days.

**Zhen**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [针7](http://xh.5156edu.com/html3/14496.html)[枕8](http://xh.5156edu.com/html3/11503.html) [阵6](http://xh.5156edu.com/html3/2200.html)

**号表法no.indicator:** 1 2 3 4

**知识对应knowledge counterpart:**

Zhen 1

针对to zero in on

针刺孔pinprick

针锋相对tit for tat

针锋相对地竞争to go head-to-head

真诚的bona fide

真诚求救genuine plea for help

真核生物eukaryotes 由真核细胞构成的生物。包括原生生物界protozoa, protists, protoctists、真菌界fungi、植物界plants和动物界animals。真核生物是所有单细胞或多细胞的、其细胞具有细胞核的生物的总称，它包括所有动物、植物、真菌和其他具有由膜包裹着的复杂亚细胞结构的生物。

真菌fungus

causative fungus致病真菌

真菌(食药) fungi:

冬菇，香菇shitake

舞菇，舞茸，灰树花maitake

杏鲍菇oyster

冬虫夏草cordyceps

灵芝reishi, ganoderma, supernatural mushroom

银耳tremella fuciformis

真情实感raw emotion

真人秀reality show

真实的了解authentic glimpse

真实性veracity

真爽fucking high

真相第一，先看看真相facts first (驳斥不实之词)

真相大白to come out in the wash, to come to light

真正的real, genuine

genuine reciprocity真正的互惠

侦察to spy, to scout, reconnaissance

侦破to ferret

珍贵的prized

prized minerals珍贵的矿物

珍品black swan, nugget, 珍闻

珍惜to cherish

珍惜真相to value the truth

侦察巡逻on a reconnaissance patrol

侦探detective

帧速率frame rate:

Over-crank

Inter-crank

Under-crank

Zhen 3

诊断diagnosis

枕pillow, pulvinar

Zhen 4

阵发性的paroxysmal

Paroxysmal tinnitus阵发性耳聋

阵列 array

microarray微阵列

DNA microarray脱氧核糖核酸微阵列

阵痛in the throes of

阵亡KIA---killed in action

震荡concussion

震动tremor

震动型vibe

震古烁(shuo3)今=震古铄今earth-shaking,

to surprise the ancients and to amaze the contemporaries

震卦hexagram zhen

震撼to convulse

震惊to jolt, to stun, appalled

震怒to fume

震慑和敬畏shock and awe

震中epicenter

镇暴装置crowd-control gear

镇静to sedate

sedative patient处于镇静状态的病人

镇痛药analgesic drugs, pain relief medicine

balm镇痛软膏

cranial electrotherapy stimulation颅电疗刺激

duloxetine度洛西丁

rotigotine罗替戈丁

subthalamic丘脑下的 or pallidum苍白球 nuclei核 stimulation刺激

用于：

acute gout急性痛风

ankylosing spondylitis 强直性脊椎炎

Osteoarthritis 骨关节炎

rheumatoid arthritis 风湿性关节炎

镇压to quash, to squelch, to slap down

振动器vibrator

振奋的refreshing

buoy spirits振奋精神

to galvanize使...振奋

振奋的部队pumped-up troops

赈灾款disaster-relief money

**Zheng**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [争6](http://xh.5156edu.com/html3/1935.html)[整16](http://xh.5156edu.com/html3/12602.html) [政9](http://xh.5156edu.com/html3/12557.html)

**号表法no.indicator:** 1 2 3 4

**知识对应knowledge counterpart:**

Zheng 1

征服to vanquish

征收两位数字的关税to impose double-digit tariffs

征税to levy more tariffs on China

争吵to lock horn, to feud, row, spat, dispute, at odds,

Bickering, brawl

争斗得难解难分to lock horns

争端 (trade) spat

争夺to jostle over，to vie for,

last-minute scramble 最后一分钟争夺

争夺地盘land grab

争论to fray, run-in, to squabble over

争论点moot point

争论中的问题problems at issue

争强好胜feisty

争取时间to buy time

争取选票to court the votes

争权夺利to scramble for power

有争议的领土，固有领土disputed territory vs

established territory

ladakh拉达克populated by Tibetan people (north of Himachal pradesh 喜马偕尔邦) disputed between India and China

Arunachal pradesh (so called阿鲁纳恰尔邦) 藏南disputed between India and China

(有)争议的人物divisive figure

挣扎to agonize

争执at odds, to wrangle, altercation, tiff, feud

diplomatic feud 外交争执

睁开眼睛to open one’s eyes

睁一只眼闭一只眼to turn a half-blind eye to...

蒸to steam

蒸发to evaporate (the hope)失望

蒸汽驱动的弹射系统steam-driven catapult system

Zheng 3

整顿to untangle, to straighten out

整幅牌deck(52 cards)

整个的at large

整理，分类to sort through, to declutter

整理上衣to fix the coat

整流罩fairing

diameter fairing直径整流罩

整批in bulk

整体崩溃total collapse

整体补助款block grant

整体地看holistic glance

holistic doctor整体医生

整体观holistic view

整形外科orthopaedics

Orthoinfor 骨科信息网

拯救 salvation

to save flaying of the justice system拯救司法系统

整装待发to be locked and loaded

Zheng 4

政变coup d’etat

coup signifier政变标记

administrative coup

attempted coup

kooky coup

soft coup

政策制定者policy wonk

政敌political foe

政府颁发的证件government identification

政府指定的考试government-mandated test

政网条款plank

政治(的) politics, political

apolitical不问政治

政治才能statesmanship

政治讽刺片political satire

政治化to politicize

Politicized citizenry政治化公民

政治噱头political stunt

政治后果political fallout

政治评论家political pundit

政治迫害witch hunt

政治仆从political hack

政治上的弃儿 a political outcast

政治上得以正名politically rehabilitated

政治时钟滴答作响 Tick tock goes political clock.

政治私利political expediency

政治喜剧political comedy

政治阴谋political machination

政体polity

政委political commissar

正常normal

normalcy正常状态

to get back to normalcy回到正常状态

正当to justify, to vindicate

正当理由good causes

正当杀人justifiable homicide

正反感情并存ambivalence

正果immortal(神仙), marriage and pregnancy(婚孕)

正面朝上right-side-up顺装vs upside-down倒装

正面对撞head-on collision

正面面对犯罪to confront the crime head-on

正切比tangent ratio

正统orthodoxy

正射投影orthographic projection

正相反的 antipedal(对跖的)

正弦sine vs cosine余弦

sinusoid正弦曲线

正在进行on-going

正直upstanding

upstanding citizen正直公民

正字法orthography

症候symptom

asymptomatic无症候的

症结crux, sticking point

证(件)warrant

search warrant搜查证

arrest warrant逮捕证

证据evident, evidentary

conclusive evidence

convincing evidence

gruesome evidence

persuasive evidence

solid evidence

strong evidence

smoking gun确凿证据

证据不足insufficient evidence

证据听证evidentary hearing

证明 to testify

证明其获胜的合法性to justify the legitimacy of his victory

证明完毕QED (拉丁语)

证明...无辜to vindicate

证明无效果to prove fruitless

证人证言affidavit书面陈述

证实to attest，to corroborate, to substantiate

corroborating evidence真凭实据

证实了...谎言to confirm the rumor that...

证书credential国书，凭证

诤友a friend who will give forthright admonition

**Zhi**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [支4](http://xh.5156edu.com/html3/14200.html)[直8](http://xh.5156edu.com/html3/14846.html)[止4](http://xh.5156edu.com/html3/14205.html) [制8](http://xh.5156edu.com/html3/2003.html)

**号表法no.indicator:** 1 2 3 4

**知识对应knowledge counterpart:**

Zhi 1

支撑 to brace, to underpin, to shore up

to prop up a dying industry 支撑一个垂死的产业

支持buttress, to champion，to stick up for, to endorse,

to espouse, to side with, to countenance，to espouse

supporter vs. protester支持者，反对者

proponent支持者，拥护者

支持率approval ratings

支持率反弹to rebound the approval rating

支持奴隶制度的pro-slavery

支持法制to uphold the rule of law

支持者supporter，backer

Brexiteer英国脱欧支持者

支点fulcrum, pivot

支付to defray, to pay, to cough up

to pay a hefty fee支付高额费用

to pay a royalty支付专利使用费

支付宝alipay

支付公平份额 to pay one’s fair share

支付能力affordability

支付推销计划paid canvassing program

支付医药费to pay the medical bills

支架层stent coating

支离破碎fractured, mangled

支配to reign, to take the reins, under the away of sb

支配地位ascendancy

支配时间to manage the time

支配一切to hold sway over everything

支配战略overarching strategy

支票薄外交cheque book diplomacy

支气管扩张bronchiectasis

药物：

cefzon cefdinir头孢地尼oral cephalosporin capsule口服菌素类广谱抗生素

compound gualacol pottasium sulfonate oral solution复合愈创木醇磺酸钾口服液

支原体 mycoplasma

支柱点，望后石 pillar point

吱吱响的轮子squeaky wheels

枝叶图stem-and-leaf plot

肢解to dismember

肢体语言body language

脂 脂肪adeps, butter, fat, grease, lipid

aliphatic acid, fatty acid脂肪酸 which have no chirality手性, their mirror image镜像 is the same molecule

Essential fatty acids必须脂肪酸 can build and maintain brain cells.

omega-3欧米伽-3 fatty acids:

flaxseed亚麻籽

walnut核桃

salmon蛙鱼

soybean大豆

winter squash冬季瓜

saturated fats饱和脂肪

unsaturated fats 不饱和脂肪

polyunsaturated fats多元不饱和酸 (ω-3,ω-6)

monounsaturated fat单不饱和脂肪酸

trans-fatty acids反式脂肪酸(unhealthy)，它是将不饱和脂肪酸在一定的温度和压力下，使其双键与氢原子结合成的不饱和程度较低的脂肪酸。黄油margarine，酥油butter均属这类人造油脂。

气相色谱gas chromatography可测出反式脂肪酸

Trans-fatty acid is bad for your cardiovascular system.

脂肪组织adipose tissue

知名度popularity

知名人物high-profile figure

知难而退flight of fight

知情的informed, in-the-know

知识knowledge

知识产权IP--- intellectual property

知识界intelligentsia知识分子

知识库respository, knowledge pool

知识连贯性intellectual coherence

知识上的侏儒intellectual pygmies

知识域knowledge domain

知识渊博的人luminary

know-who人际知识 vs know-how窍门

popular science knowledge 科普知识

rudimentary knowledge 最基本的知识

unrivalled knowledge无人可比的知识

知识轴knowledge axis

知音zone-in

织女星vega---a bright star in lyra constellation天琴星座

只懂皮毛to scratch the surface

只言片语book-phrase

只有一个none but this one

只有专家知道only the pros know

织锦tapestry

tapestry of disparate tribes异族织锦

脂肪fat

fat普通脂肪

saturated fat= unsaturated fat饱和脂肪(存在于牛羊猪肉中,可增肥)

Transfat = unsaturated fat反式脂肪=不饱和脂肪 (存在于坚果，鱼肉中)

steatorrhea脂溢

脂质体liposome

脂质透明变性lipohyalinosis

芝加哥商品交易所Chicago merchandile exchange(CME)

芝麻sesame

芝麻酱sesame sauce

Zhi 2

直播live coverage,

to live stream现场直播，直播流媒体live stream of a broadcast network to smartphone and tablets via an app

直肠镜proctoscope

直接的head-on

直接从权威方面得来的straight from the horse’s mouth

直接地firsthand

直接竞争to compete head to head

直接写出to write literally

直接兴趣驱动driven by immediate appetite

直进式deadbeat

直升机helicopter

helicopter pad直升机起降场

gunship武装直升机

直率的bluff, blunt

直通straight-in

直系亲属immediate family, direct relation, core family:

Parent: father and mother

Spouse or couple:husband and wife

Offspring or children: son and daughter

直线下降的评级plummeting rating

直言不讳to call a spade a spade, to speak one’s mind, outspoken, to blunt, in blunt language

直言不讳的批评vocal critic

直译transliteration, literal translation

值班on duty

值班经理duty manager

值得to merit

值得称赞的meritorious

值得出版to merit publication

值得访问worthwhile visiting

值得分享的照片instagrammable (photo)

值得纪念的事物memorabilia

值得奖励prize worthy

值得一看viewable

值得一提worthnoting

值得注意noteworthy to be worthy of

值钱valuable, costly

Chaff, straw, trinket不值钱的东西

植入网络意识to embed cyber-awareness

植物plant, botany

flora植物群

phytochemical植物化学物质（植物和蔬菜中含有，其重要性不亚于抗生素，和 维生素，有自然排毒to detox naturally，全身消炎to reduce systemic inflammation之效）

phytoplankton浮游植物

plant taxonomy植物分类

vegetable oil植物油

hydrogenated vegetable oil 氢化植物油

= trans-fatty acids反式脂肪酸 (油炸食品所含)

vegetative植物人

植物园botanic garden

查找search：

by species name按物种名称

by a variety of higher taxonomic rank按分类等级

by global conservation status 按全球保护状态

by provenance 按起源

by accession number 按登录号

birds paradise鸟类天堂

cultivar species培育品种

fairchild tropical botanic garden仙童热带植物园

horticulturalist园艺种植师

Leaves are bursting out of buds抽芽

直观intuitive

counter-intuitive违反直观

直率的本性forthright nature

直接达到的旅途straight-forward trip

直接引导hands-on guidance

直截了当地说categorically, to put it bluntly

直升机copter, helicopter

civilian quadcopter民用四旋翼直升机

直言不讳to call a spade a spade

执法law enforcement，to administer the laws

执迷不悟的wrong-headed

执事deacon

(在)执行任务时in the line of duty

执行搜索to execute the search

执行严格限制to enforce draconian limits on public protests

执行总裁CEO---chief executive officer

执照测试licensing exam

licensure发给执照

Licensed store 有执照的商店

执政的阵容ruling line-up

职称professional titles or ranks (in education)

full professor正教授

associate or adjunct professor 副教授

emeritus professor 名誉教授

honorary professor 荣誉教授

chair or distinguished professor杰出教授

endowed professor 退休教授

part-time professor 兼职教授

visiting or guest professor客座教授

foreign professor外籍教授

lecturer讲师

assistant助教

职位post(某些国家的元首)

Top constitutional post

Ceremonial post

Ornamental post

Figurehead

职业profession, trade, career

career guy职业人

(不起眼的)职业unimpressive jobs：

Vendor of sweets糖果小贩

Illiterate gardener文盲园丁

Failed snake charmer失落的耍蛇者

Meticulous painter of signs细心的招牌画人

Gullible money lender易受骗的放款人

Talkative tiger健谈的少年马夫

职业棒球大联盟MLB---major league baseball

职业规划career plan

职业培训coursework

职业杀手hitman

职业生涯遭断送career-ending

职业性摔跤tag-team

职业用语shop talk

职业政党工作人员apparatchik

侄子nephew外甥

Zhi 3

止咳糖浆cough syrup

止痛analgesia

止痛退烧药

acetaminophen对乙酰氨基酚，醋氨酚：

excedrin 艾克塞德林

panadol 必理痛

tylenol 泰勒诺

ibuprofen布洛芬

止痛药anodyne, pain killer

celecoxib塞莱希布 which can decreases stat3 phosphorylation磷酸化 to cause the liver cancer cells to self-destruct.

Which maybe inhibit the growth of bladder cancer via inducing apoplosis 凋亡of tumor cells and perhaps will become a choice of chemopreventive化学预防 and adjuvant辅助 therapy of bladder cancer.

(常见)止痛药common pain medication

amitriptylene阿米替林

止血to stanch the bleeding(small cut or wound)

1. 用水清洗伤口rinse the cut with water (cold water can constrict the bleeding vessels; hot water will cauterize the cut, allowing blood to clot.)
2. 向伤口处施压apply pressure to the cut
3. 试用止血铅笔try a styptic pencil (mineral astringent)
4. 用凡士林抹伤口add vaseline or petroleum jelly to

encourage clotting

1. 抹香油rub antipersperalic balm
2. 涂防腐溶液dab on listerine
3. 用明矾块use an alum block
4. 用白醋消毒apply white vinegar to disinfect the cut
5. 试用金缕梅酊剂try witch hazel to stop the bleeding
6. 放玉米面在伤口上put some coin starch on the cut
7. 用蜘蛛网止血use spider web in a pinch to stanch the

blood flow

1. 包扎伤口dress the cut, once the bleeding is under

control

止血带tourniquet

止住to rein in (wasteful spending)

趾尖tiptoe

用不同的指标in different metrics

on a variety of metrics用各种指标

指导to mentor

指导委员会steering committee

在...指导下under the tutelage of...

指挥棒baton of leadership

指挥中场to boss midfield

指尖陀螺fidget spinner

指控某人to charge sb

指令instruction, mandate

instruction set architecture指令集架构

指令循环instruction cycle:

CPUs follow the fetch,decode and execute steps.

中央处理器遵循取回，解密，执行三个步骤。

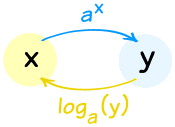
指南针，罗盘 compass (invented by Chinese long long ago, but Chinese did not push it further to magnetic field or magnetic waves)

指派to co-opt，to task sb to do sth

指数the exponent above 10 represents the number of “zeros” after “1”,eg.109 is 1000,000,000 or a billion; if the exponent is negative, eg. 10-2 then it is “1” divided by 102 or 1/100 = 0.01.

指数 与 对数 exponent vs logarithm

Exponents and Logarithms work well together because they "undo" each other (so long as the base "a" is the same): 互为反运算(只要“底数”相同)



They are "[Inverse Functions](https://www.mathsisfun.com/sets/function-inverse.html)"

Doing one, then the other, gets you back to where you started:

Doing **ax** then **loga** gives you **x** back again:IMG_257

Doing **loga** then **ax** gives you **x** back again:IMG_258

It is too bad they are written *so differently* ... it makes things look strange. So it may help to think of ax as "up" and loga(x) as "down":

going up, then down, returns you back again:down(up(x)) = x

going down, then up, returns you back again:up(down(x)) = x

Anyway, the important thing is that:

**The Logarithmic Function is "undone" by the Exponential Function.**

*(and vice versa)*

Like in this example:

### Example, what is **x** in **log3(x) = 5**

Start with:log3(x) = 5

We want to "undo" the log3 so we can get "x ="

Use the Exponential Function (on both sides):IMG_256

And we know that IMG_257, so:x = 35

Answer: x = 243

And also:

### Example: Calculate y in **y=log4(1/4)**

Start with:y = log4(1/4)

Use the Exponential Function on both sides:IMG_256

Simplify:4y = 1/4

Now a simple trick: **1/4 = 4−1**

So:4**y** = 4**−1**

And so:**y = −1**

## The Natural Logarithm and Natural Exponential Functions自然对数 与 自然指数函数

When the base is **e** ("[Euler's Number](https://www.mathsisfun.com/numbers/e-eulers-number.html)" = **2.718281828459**...) we get:

* The Natural Logarithm **loge(x)** which is more commonly written ln(x)
* The Natural Exponential Function ex

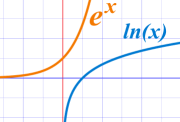
And the same idea that one can "undo" the other is still true:

ln(ex) = x

e(ln x) = x

And here are their graphs:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Natural Logarithm |  | Natural Exponential Function | | |
| IMG_256 |  |  | | |
| Graph of **f(x) = ln(x)** | | | |  | Graph of **f(x) = ex** | |
| Passes through **(1,0)** and **(e,1)** | | | |  | Passes through **(0,1)** and **(1,e)** | |
|  | | | |  |  | |



They are the **same curve** with x-axis and y-axis **flipped**

Which is another thing to show you they are inverse functions.

## The Common Logarithm 常用对数

When the base is **10** you get:

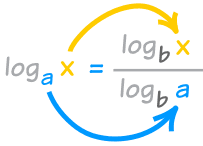
* The Common Logarithm **log10(x)**, which is sometimes written as log(x)

Engineers love to use it, but it is not used much in mathematics.

## Changing the Base改变“底数”

What if we want to change the base of a logarithm?

Easy! Just use this formula:



"x goes up, a goes down"

Or another way to think of it is that **logb a** is like a "conversion factor" (same formula as above):

loga x = logb x / **logb a**

So now we can convert from any base to any other base.

Another useful property is:

loga x = 1 / logx a

See how "x" and "a" swap positions?

### Example: Calculate 1 / log8 2

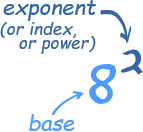
1 / log8 2 = log2 8

And 2 × 2 × 2 = 8, so when 2 is used **3** times in a multiplication you get 8:

1 / log8 2 = log2 8 = 3

But we use the Natural Logarithm more often, so this is worth remembering:

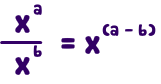
loga x = ln x / ln a

指数exponent, index, indices: 

to rebase the index重新计算指数

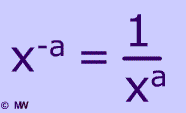
to increase exponentially按指数增加

index funds指数基金

指数[Basic Laws of Exponents IMG_256IMG_257](https://www.mathwarehouse.com/algebra/exponents/laws-of-exponents.php)

|  |  |  |
| --- | --- | --- |
| **2** | 5 × 5 | 25 |
| **51** | 5 | 5 |
| **50** | 1 | 1 |
| **5-1** | 1**5** | 0.2 |
| **5-2** | 1**5** × 1**5** | 0.04 |
|  |  |  |

Negative exponents



函数exponential function

general form一般式 Y=ax (a>0 & a≠1) (xєR) a前系数为1，y=10x, y=πx为指数函数，而 3.2x 则不是

domain定义域 xєR

monotonic increasing单调递增 when a>1

monotonic decreasing单调递减 when 0<a<1

range int

erval值域区间 0, +∞

function character 函数性质neither odd function,nor even function

function graph 函数图形concave, 凹形

指数(级)增长 exponential growth

指望着空前的资料to promise unprecedented date

指示物referent所指对象

指纹fingerprint

thumbprint scanner指纹扫描器

指责to rebuke, to point the finger or blame at sb

finger-pointing交互指责

纸牌卜卦in a cartomaney perspective

纸牌屋(=不靠谱)house of cards权力场

纸上谈兵navel-gazing, armchair

armchair man or theorist纸上谈兵者

Zhi 4

制表to tabulate

制裁sanction, embargo

SDN--- specially-designated nationals and blocked persons list特别指定的国民及被隔绝的个人清单(在美国的存款被冻结，亲人被驱逐，用美国技术的网络不能上，银行开不了户，只能用现金购物，不能用swift进行交易)

制定一个计划to hatch a plan

制度的圣神性institutional sanctity

制度腐败institutional rot

制度化to institutionalize

制服(驯服)to tame, to subdue

制高点commanding elevation(point, ground, height)

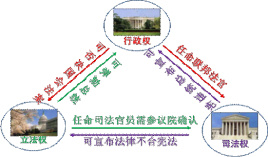
制海权maritime supremacy

制衡checks and balances

(emboldened and powerful) presidency

(weak and timid) congress

supreme court

[](https://baike.baidu.com/pic/ç¾å½å®ªæ³éçä¸æåç«/12611163/0/29381f30e924b899f06ff3046a061d950a7bf6bf?fr=lemma%26ct=single)

制片人showrunner

制胜winning strategy

winning platform制胜平台

制胜法宝killer application杀手级应用程序

制胜绝招gamesmanship

制图cartography

制造分裂to drive wedge in western unity

制造混乱to show chaos

制作止血带to make a tourniquet

智慧碗quiz bowl

智慧源于勤奋，伟大出自平凡Wisdom comes from diligence,

Greatness is out of the ordinary

智库think tank

智能brainpower, intelligence, smarts, mental capacity

intelligent agent智能代理软件

智能表smartwatch, which can

track steps, and heart rate

make a purchase

get social media notifications

call an uber

function as a hotel key

智能化罪犯white collar criminal

智能卡smart card

智能抢smart gun

智能制造smart manufacturing

智力intelligence:

Crystallized intelligence (gc) g=general

Fluid intelligence (gf)液态智力：

Inductive reasoning

Deductive reasoning

智力拼图jigsaw puzzle

智取to outmaneuver

智穷才竭at one’s wit end

智人homo sapiens

智商IQ---intelligence quotient

Operation IQ

Practical IQ

Verbal IQ

IQ test

(以)智取胜to outwit

智障intellectual disability

治安官sheriff (美国的)

治病to sicken

治安维持会vigilante group

治国本领statecraft

治好伤疤to heal the scar

治理，政体，统治 -cracy

autocracy 独裁统治

bureaucracy 官僚作风

Democracy 民主（=人民统治）

holocracy 全体共治

meritocracy 贤能政治，精英治理

plutocracy 财阀统治，富豪统治

Sociocracy 全民政治

technocracy 技术专家统治

theocracy 神权统治

Timocracy 金权统治

治疗treatment

healing hub治疗中心

Multimodality treatment综合治疗

Platium-based chemotherapy铂础化疗

治疗射线healing rays

to heal national wounds 治疗国家创伤

治愈癌症to cure the cancer

治愈鸿沟to heal the divide

至高无上in paramount, supremacy

至少at the very least

致残to maim, to disable

致癌，致畸物质carcinogenic or teratogenic substance:

lead铅

mercury汞

hexavaleny chromium七价铬

polyvinyl chloride多联苯

PBDE---poly brominated diphenyl ether多溴联苯醚

PCB--- polychlorinated biphenyl 聚氯乙烯(contained in smart phones)

致癌蔬菜cancer-causing vegetables:

Little baby food小娃娃采 (dipped in formaldehyde)

fiddle head蕨菜

pumpkin head(cucurbita pepo I)西葫芦 (acrylamide by frying)

chicken dish (gynurabicolor DC)红风采

可能致癌的传统食品possibly carginogenic traditional foods：

松花蛋preserved duck egg

臭豆腐stinky tofu, strong-smelling preserved bean curd

味精aginomoto

方便面instant noodles

油条deep-fried dough stick

腌菜pickled vegetables

致辞oration, to deliver remarks

to deliver the eulogy 致颂词，致悼词

致悼词to deliver a eulogy at a funeral

致富to get rich

致畸因子teratogen, teratogenic agent

致敬 to salute heroes

Salute to America向美国致敬

致力于专业的committedly professional

致盲to blind blinding high beam致盲远光灯

致密部pars compacta (substantia nigra)

致命的lethal, fatal

Achilles’ heel致命伤

coup de grace, to land a killer blow致命一击

deadly diseases, killer diseases致命的疾病:

ebola, marburg, lassa fever

deadliest shooting致命的枪击案

death killer致命杀手:

lethal bite咬一口致命

non-lethal bite不致命的咬了一口

Fatally flawed有致命缺陷的

mortal peril致命的危险

致谢名单credit

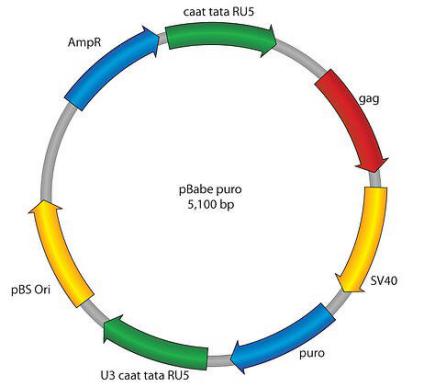
质的差别qualitative difference

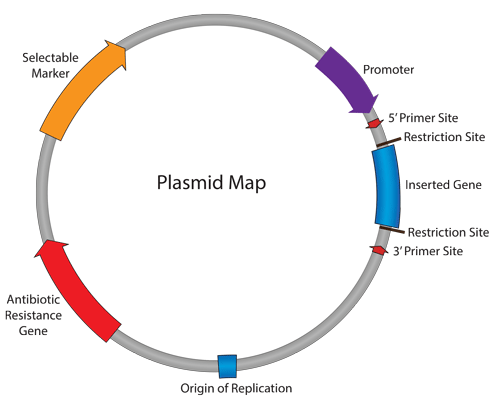
质检qualitative survey vs quantitative survey量检

质粒plasmid

Generally, scientists use plasmids to manipulate gene expression in target cells. Characteristics such as flexibility, versatility, safety, and cost-effectiveness enable molecular biologists to broadly utilize plasmids across a wide range of applications. Some common plasmid types include: Cloning plasmids, Expression plasmids, Gene knock-down**基因抑制** plasmids, Reporter plasmids, [Viral plasmids](https://blog.addgene.org/plasmids-101-viral-vector-elements" \t "https://blog.addgene.org/_blank), and [Genome engineering](https://blog.addgene.org/topic/genome-engineering" \t "https://blog.addgene.org/_blank) plasmids.

To date, scientists around the world are extensively using these vectors带菌者，载体 for experiments encompassing fluorescent imaging**荧光成像**, recombinant**（基因）重组的** DNA technology, mass protein production, disease modeling, drug discovery, and genome editing (just to name a few).

<https://blog.addgene.org/topic/plasmids-101> [](https://blog.addgene.org/topic/plasmids-101)

******

Plasmid map质粒图:

Promoter催化剂

5’ primer site 引物点

restriction site 限制位点

inserted gene 插入基因

restriction site

3’ primer site

origin of replication 复制原点

antibiotic resistance gene 抗生素抗性基因

selecable marker 筛选标记

Chimeric plasmid嵌合质粒 (从别处克隆的质粒)

质量quality vs quantity

quality management质量管理

quality booster质量改善剂

QALY---quality adjusted life year质量调整寿命年

质量工程师quality engineer(QE):

CQE--- certified quality engineer注册质量工程师

DQE--- design quality engineer 设计质量工程师

FQE--- field quality engineer现场质量工程师

IQE--- improvement quality engineer改进质量工程师

IPQE--- in-process quality engineer制程质量工程师

OQE--- objective quality engineer客观质量工程师

PQE--- product quality engineer产品质量工程师

SQE--- supplier quality engineer供应商质量工程师

VQE--- vendor quality engineer零售商质量工程师

**质能方程E = MC2 ：四种武器的理论根据**

1. 原子弹atomic bomb: 1945年日本广岛7万人死于1.5吨TNT当量的美国投下的原子弹。
2. 氢弹hydrogen bomb: 1961年前苏联在新地岛试爆了一颗5000万吨TNT当量的沙皇氢弹，

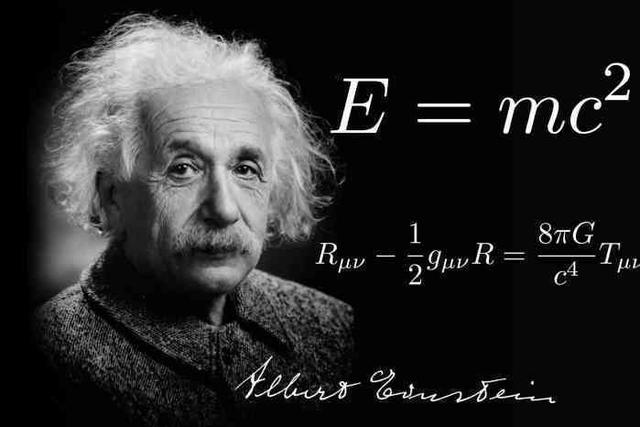
俗称“大伊万”，威力是广岛原子弹的3864倍。

1. 三相弹 即 氢铀弹hydrogen-uranium bomb: 氢为核心，铀238 为外壳，形成裂变-聚变-裂变

三阶段。

1. 钴弹cobalt bomb 将铀238换成钴59,转换成钴60，衰变为镍60衰变过程中产生射线，破坏

生物的DNA, 把地球变成月亮，火星式的天体。(imaginary bomb)

prime

质数，素数 prime 一个大于一的正整数，如果除了1和它本身以外，不能被任何整数整除就叫素数。如：2，3，5，7，11，13，17，19，23，29，31等。两个大的质数相乘得出的是合数，要想分开十分困难，RSA(三个创建者的名字首母)加密法，就是基于此。“模”= “同余”，如：10 mod 3 = 1 其中10为被除数， 3 为除数，1为余数，或 模，另一个数的余数也是1，就叫“同余”。互质数至少有8种情况。1和0既不是质数也不是合数。

质问某人to heckle sb

质心，矩心，面心centroid

质询inquest

deepcut inquest深挖的质询

质疑to cast doubt

质子泵抑制剂 PPI--- proton pump inhibitor

志同道合like-minded

like-minded natives志同道合的本地人

痣mole

痔疮hemorrhoid

hemorrhoid cream痔疮膏

滞留to strand, stuck

置换trade-in, 折合价

置换出to swap out

置之不理to stonewall

掷to flip

掷手榴弹to throw handgrenades

窒息to suffocate, to choke, asphyxiation

**Zhong**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [忠8](http://xh.5156edu.com/html3/13641.html)[肿8](http://xh.5156edu.com/html3/13874.html) [众6](http://xh.5156edu.com/html3/2719.html)

**号表法no.indicator:** 1 2 3 4

**知识对应knowledge counterpart:**

Zhong 1

忠诚loyalty, fealty

忠诚的staunch

staunch allies忠诚盟友

忠诚度调查security clearance

忠诚是是双向的loyalty works both ways

忠于承诺to honor one’s commitment

fidelity to constitution终于宪法

中程导弹intermediate-range missile

中等收入modest means

中断 (to cause major ) outage

中国China, sino-, middle kingom, cathay

中国化to sinify, sinification，to sinize, to chinize

To desinize, to dechinze去中国化

中国通China hand

中国中心主义Sinocentrism大汉族主义

中国的著名媒体famous media outlets of China:

新浪的微博

Sina’s weibo---a twitter-like microblogging site

腾讯的微信

Tencent’s we chat---an instant messaging mobile app

百度的贴吧

Baidu’s tieba---a popular discussion forum

中国人Chinaperson

中国文化圈sinosphere, sinic world, confucian world, taoist world, Chinese culture world

中粮公司sinograin

中文房间Chinese room (反强人智能观点)

中心center, centre

centre stage中心舞台

to put oneself center stage把自已放在中心舞台

中心点pivot, center, epicenter, hub

中心型联盟 “hub-and-spoke” alliance

中心装饰品centerpiece

中性neural, neutron

neutral radiation中性辐射

neutral atom中性原子

中兴公司(中国) zte corporation (smart phone maker)

中央处理器CPU---central process unit

physical CPU vs virtual CPU 实体的，虚拟的

ALU---arithmetic logic unit算术逻辑运算单元

bus总线

cache高速缓冲存储器

data数据联系器

I/O输入/输出设备

memory内部存储器

Intel英特尔：

core库瑞

pentium奔腾

IBM

Transistor CPUs

Small scale integration CPUs (ssi)

Large scale integration CPUs (lsi)

Microprocessor

中央处理器的工作步骤：

1. 取指令 IF instruction fetch
2. 指令译码ID instruction decode
3. 执行指令EX execute
4. 访存取数MEM memory
5. 结果写回WB write back

中央沟central sulcus in the brain

中止申请caveat

衷心感谢heartfelt thanks

终场denouement

终身lifetime

lifetime learner终身学习者

career-long ambition终身雄心

终于失败to fizzle out

终止stop, lapse

钟爱endearment

钟状体spicules

Zhong 3

肿edema, swelling

肿瘤萌芽tumor budding

肿瘤学家oncologist

肿瘤因子TNF---tumor necrosis factor

肿眼泡puffy eye

种类stripe

种源source, provenance

种族定性racial profiling

种族灭绝的genocidal

种族歧视racial slur

种族清洗ethnic cleansing

种族主义racism

种子seed

seed funding种子基金

冢，坟，墓 grave, tomb(身份显赫者，有坟包者，只有木牌者)

Zhong 4

众包crowdsource

crowdsourced video众包视频

众筹to crowdfund, to crowdsource

crowdfunder 众筹人

crowdfunding campaign 众筹活动

kickstarter, indiegogo 众筹平台

reward-based crowdfunding回馈式众筹

equity crowdfunding股权众筹

众人瞩目的中心limelight

众所周知的widely-known, proverbial

重大错误gross mistake, profound mistake

重大疏忽gross neglect

重担millstone vs milestone里程碑

重点bullet point要点

重点分析on-point analysis

重负deadweight

重击to pack punch

重机枪heavy machine gun

重军事轻外交to value the military over diplomacy

重力gravity

gravimetric重力测量

gravity sensor重力传感器

重男轻女to prize boys over girls

重视家庭生活的人homebody

重要目标high-value target

重型机械heavy machinery

重要important, seminal

重要新闻top story

重要议题high on the agenda

重灾区worst-hit area

重罪grave sin, high crime

重罪指控felony charges

重罪罪状felony count

中靶to hit the target vs to miss the mark 脱靶

中标to win (or secure) the bid

中弹to get shot

中风stroke, apoplexy 中风三个证候：

S--- smile让当事人“笑”一下

T--- talk 让当事人“说”一句完整的话

R--- raise让当事人“举”起双手

中伤to defame

中暑sunstroke vs frostbite

仲裁人(者)moderator, arbitrator, arbiter, arbitress

种稻田to tend rice paddies

种下第一棵种子China grows the first seed on the moon.

**Zhou**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [州6](http://xh.5156edu.com/html3/4682.html)[轴9](http://xh.5156edu.com/html3/10651.html)[肘7](http://xh.5156edu.com/html3/13841.html) [咒8](http://xh.5156edu.com/html3/5513.html)

**号表法no.indicator:** 1 2 3 4

**知识对应knowledge counterpart:**

Zhou 1

州state

州长选举gubernatorial election

洲际弹道导弹ICBM

洲际汇率.美元指数 ICE . DX (intercontinental exchange US dollar index) eg

|  |  |
| --- | --- |
| Last Price | **96.976** |
| Previous Close | **97.058** |
| Low | **96.968** |
| 52wk High | **2019** |
| 52wk Low Date | **2018-09-21** |

|  |  |
| --- | --- |
| Open | **97.078** |
| High | **97.116** |
| Time | **2019-07-11 22:01:18** |
| 52wk Low | **93.814** |

周年纪念日anniversary

周游世界to circumnavigate, to do circles around the planet

Zhou 2

轴axis:

X axis, horizontal axis, transverse axis水平轴

Y axis, vertical axis纵轴

Z axis

Conjugate axis共轭轴

轴标axis label

轴对称弹体axisymmetric projectile

轴承bearing

轴夹角angles to axes:

X---farward, +x

Y---up, +y

Z---left, +z

Translation

飞机绕轴的三个动作：

X---yaw偏航角（左右动作）

Y---pitch俯仰角（上下动作）

Z---roll 翻滚角（摇动翅膀）

轴心点pivot point支点， 旋转点

Zhou 3

肘子elbow

扫帚broom

笤帚whisk broom

Zhou 4

咒语curse words, incantation, mantra

昼夜不停round the clock

皱fold

sharp folds急斜褶皱

皱眉头 to frown upon

宙斯盾雷达(导弹) aegis radar (missile)

**Zhu**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [朱6](http://xh.5156edu.com/html3/11418.html)[竹6](http://xh.5156edu.com/html3/17736.html)[主5](http://xh.5156edu.com/html3/1752.html) [助7](http://xh.5156edu.com/html3/2582.html)

**号表法no.indicator:** 1 2 3 4

**知识对应knowledge counterpart:**

Zhu 1

朱砂cinnabar

朱姆沃尔特级驱逐舰Zumwalt-class destroyer（with phased-array radar and 80 vertical fired units vs Chinese 055 destroyer with the same type radar bur 112 vertical fired units）

DDG-1000 USS Zumwalt

DDG-1001 USS Michael Monsoor

DDG-1002 USS Lyndon B Johnson

侏罗纪jurassic

珠宝商jewellers

猪pig, swine

swine-origin disease猪源性疾病

pitcher plant 猪笼草, 提虫草

pork 猪肉

pork hock猪肘

潴留retention

fluid retention液体潴留

诸元，数据，资料datum/data

auto-loading data 自动装定诸元

firing data 射击诸元

target data 目标诸元

data smoothing 诸元平滑法

Zhu 2

逐步的stepwise

逐步采用to phase in, phase-in

逐步淘汰to phase out, phaseout

逐步降级to de-escalate

逐步升高to ratchet up略微调高

逐段转发hop-by-hop forwarding

逐渐减弱to wear off

逐渐逐渐地处理to handle on case-by-case basis

逐渐法piece meal approach

逐渐消失to peter out, to wear thin, evanescent

逐梦to pursue one’s dream

逐跳行为per-hop behavior

逐字地verbatim

逐帧frame-by-frame

烛candle

menorah烛台

竹bamboo

bamboo rat, rhizomys竹鼠

bamboo shoots竹笋

Zhu 3

主host, main, lord

主板motherboard

graphic card, video card, display card,

GPU(--- graphic processing unit)显卡

discrete graphics, pci-e(xpress)独立显卡

maya pro独立声卡

separate networking card独立网卡

USB(--- universal serial bus)通用串行总线

RAID(---redundant array of independent disks)独立磁盘冗余阵列

SSD(---solid state drive)固态硬盘

SATA(---serial advanced technology attachment)串行高级技术附件

PCI-E(---peripheral component interconnect-express)周边组件互连-特快

AGP(---accelerated graphics port)加速图像出口

主播anchor, host, hostess

主菜entree (主菜， 入场许可)

主持to preside over, to run the show to chair

He chaired the emergency meeting.

主持峰会to host the summit

主持人host, hostess, TV anchor

主从关系 (feudal) hierarchical relationship:

Ruler and ruled君为臣纲

Parents and children父为子纲

Husband and wife夫为妻纲

Older and younger长为幼纲

主导to dominate (the list of longest bridges)

主导地位dominance head on

主动地proactively, of one’s own accord

主动脉aorta

intra-aorta balloon pump主动脉内球囊泵

主动提供的信息unsolicited message

unsolicited submission主动提交

unsolicited manuscript 主动提供的手稿

主顾patron

主管czar, in charge (of)

主机website hosting

主机费hosting charges

主教pontiff, bishop

archbishop大主教

diocese主教教区

主力战机mainstay fighter (plane)

主权sovereignty

De jure sovereignty法理主权

De facto sovereignty实际主权

Sovereign state主权国家

sovereignist主权主义者

主人派头地masterfully

主食staple food

主题staple, motif

主题标签hasgtag

主体性science of subjectivity

主修to major in

主卧室master bedroom

主要(竞争)对手arch rival

主要人物kingpin

主旨演说keynote address or speech

主轴big plus双面接触

主宰juggernaut

拄着拐杖on crutches

Zhu 4

助to help

obstetrics助产术

助记法mnemonic

助记法的壮举mnemonic feat

助跑run-up

助手helpmate (配偶), acolyte

助长to foster (the debate about...)

助学金bursary

助推火箭booster rocket

祝福to bless

祝贺to celebrate one’s good luck

祝贺电话 (to accept) a congratulatory phone

祝某人一切顺利wish sb the best

注册to register, to log in vs to log out注销

licensed pharmacist 注册药剂师

注册的中风中心certified stroke center

(菲律宾)注册的集装箱船

philippine-registered container ship

Philippine-flagged container ship

注定to preordain to be bound to fail注定失败

注解e-annotation

注入to inject, to infuse

to inject a dose of reality注入一份现实

注射器syringe, injector, squirt

注视to eye, to pore over

注意to take notice, note bene

注意到to heed the possibility of US military action

注意力缺陷attention deficit

注意形象的image-conscious

注预算窗口budget window

住仓berthing compartment(船员睡觉处)

住家保姆live-in nanny

住口shut up, to stop talking, to shut one’s mouth

住窑洞的人cave-dweller

住院危险期risky period (July and weekends) for hospitalization

The reasons are:

medical errors医治失误

under-staffing 人手不够

staff fatigue人员疲劳

住院治疗to hospitalize

to admit, admission入院

to discharge出院

to readmit, readmission再入院

柱column

columnar柱状的

铸件castings

铸铁烤盘cast-iron griddle

铸造to forge (good relation with...)

著名to be renowned for...

**Zhua**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [抓7](http://xh.5156edu.com/html3/7595.html) [爪4](http://xh.5156edu.com/html3/14228.html)

**号表法no.indicator:** 1 2 3 4

**知识对应knowledge counterpart:**

Zhua 1

抓to seize

抓到足够的票to corral enough votes

抓放政策”catch and release” policy

抓钩grabber device

抓获to tag

抓紧时间to make hay while the sun shines

抓老虎to cage tigers

抓住to snag (the reptile爬行动物）

抓住公众的情绪to capture the public mood

抓住机会to seize the opportunity, to snag (the Nobel prize)

抓住生殖器to grab by the genital

抓住瞬间to catch the moment

抓住窍门to get a grip

抓住未来to seize the future

Zhua 3

爪claw

**Zhuai**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [拽9](http://xh.5156edu.com/html3/7708.html)[转8](http://xh.5156edu.com/html3/10640.html) [跩13](http://xh.5156edu.com/html3/19372.html) [拽9](http://xh.5156edu.com/html3/7708.html)

**号表法no.indicator:** 1 2 3 4

**知识对应knowledge counterpart:**

Zhuai 1

拽拽了吧，没用了It is useless, discard it.

Zhuai 2

转to shift, to rotate

Zhuai 3

他走路一拽一拽的He walks unsteadily.

Zhuai 4

拽to pull, to haul, to pluck

**Zhuan**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [专4](http://xh.5156edu.com/html3/1684.html) [转8](http://xh.5156edu.com/html3/10640.html) [赚14](http://xh.5156edu.com/html3/10569.html)

**号表法no.indicator:** 1 2 3 4

**知识对应knowledge counterpart:**

Zhuan 1

专案组task force工作组

专横的imperious, masterful

专家pundit (权威)

专家顾问团brain-trust

专栏版op-ed (opinion piece)

专栏作家columnist

专卖行dealership

专利patent, patentable, patentability, royalty

licensing royalty专利许可

patent litigation专利诉讼

patent troll专利流氓

美国体制(仅供参考)

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| **What's legally protected?**  **合法保护什么？** | A ****word, phrase, design****, or a combination that identifies your goods or services, distinguishes them from the goods or services of others, and indicates the source of your goods or services. | Technical **[inventions](https://www.uspto.gov/trademarks/basics/trademark-patent-copyright" \o "Click for 'invention' definition)**, such as chemical compositions like pharmaceutical drugs, mechanical processes like complex machinery, or machine designs that are new, unique, and usable in some type of industry. | Artistic, literary, or intellectually ****created works****, such as novels, music, movies, software code, photographs, and paintings that are original and exist in a tangible medium, such as paper, canvas, film, or digital format. |
| **What's an example?**  **举例** | Coca-Cola® for soft drinks | A new type of hybrid engine | Song lyrics to “Let It Go” from "Frozen" |
| **What are the benefits of federal protection?**  **联邦政府保护的好处是啥？** | Protects the trademark from being registered by others without permission and helps you prevent others from using a trademark that is similar to yours with related goods or services. | Safeguards inventions and processes from other parties copying, making, using, or selling the invention without the inventor’s consent. | Protects your exclusive right to reproduce, distribute, and perform or display the created work, and prevents other people from copying or exploiting the creation without the copyright holder’s permission. |

专门技术expertise

专设ad hoc

专心single-mindedness

专业化to professionalize, professionalization

专业级professional grade

专制的autocratic, authoritarian

专制的独裁者despotic dictator

专制政府despotic government

专著monograph

砖brick

solid brick实心砖 (<25% hollow)

hollow brick空心砖 (>40% hollow)

clay brick粘土砖

concrete brick水泥砖，混凝土砖

gold brick金砖

masonry砖石

Zhuan 3

转变(话题)to sidetrack

转变态度to change one’s tune

转换transduction

转换器converter

analog-digital converter模拟-数字转换器

转基因微生物GMO--- genetically-modified organisms:

anthrax zoonotic disease人畜共患的炭疽病

enterohemorrhagic escherichia coli肠出血性大肠杆菌

转基因庄稼genetically-modified crops:

camola 油菜

corn, maize 玉米

spermicidal corn杀精玉米 (男的精子被杀死了，女的假怀孕)

cotton 棉花

rice 稻子

soy(bean) 大豆

转强to firm up

转让出to farm out

transfer fee转让费

转瞬即逝的ephemeral

转调器transponder

转弯to swerve

转向to pivot away, to veer off course

转向战略reverse strategy

转移to divert sth to somewhere else, to deflect

(癌症)转移metastasis

转移批评to deflect criticism

转移注意力的话题red herring

转义符escapers

Following is a list of all the characters (character sequences) that can be escaped:

\ backslash

. period

\* asterisk

\_ underscore

+ plus

- minus

= equal sign

` back tick

()[]{}<> left and right parens/brackets/braces/angle brackets

# hash

! bang

<< left guillemet

>> right guillemet

: colon

| pipe

" double quote

' single quote

$ dollar sign

Automatic escaping自动转义

Manual escaping手工转义

转运to ferry

转账to pay it with money transfer

转置to transpose换位

转注transformation

Zhuan 4

撰文者，代笔作家ghostwriter

赚钱to make money, to earn money

赚钱的lucrative

**Zhuang**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [庄6](http://xh.5156edu.com/html3/5105.html) [奘10](http://xh.5156edu.com/html3/4976.html) [状7](http://xh.5156edu.com/html3/12710.html)

**号表法no.indicator:** 1 2 3 4

**知识对应knowledge counterpart:**

Zhuang 1

庄稼crop

crop circle庄家怪圈 (made by aliens?)

庄重gravitas

庄子 (the name of a scholar as well as a book)

Zhuangzi dreamed he was a butterfly

装备to outfit，to kit up with

装备不良的部队ill-equipped troop

装甲ironclad

装模做样的bumbling, campy

装腔作势hoity-toity

装入to encase

装饰frills, to bedeck, to deck out, to stud with

装饰乐段cadenza

装饰者(室内) decorator

decorator-in-chief首席室内装饰者

(大型垃圾)装卸卡车dumpster

装正经to be prudish

装置equipment, construction

contraption 奇妙的装置

Zhuang 3

(这棵树很)奘This tree is very large and strong.

Zhuang 4

壮胆to embolden

壮观pageantry, pompousness, spectacle, grand sight

(完成)壮举to accomplish the feat

壮阳药：

Viagra伟哥

Levitra乐威壮

Cialis 西力士

撞车battering ram

撞到挂在门上的球to bump into a ball hanging on the door

撞击to ram, to collide

impactor撞击器

撞针striker

**Zhui**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [锥13](http://xh.5156edu.com/html3/14659.html) [沝8](http://xh.5156edu.com/html3/13199.html) [缀11](http://xh.5156edu.com/html3/9352.html)

**号表法no.indicator:** 1 2 3 4

**知识对应knowledge counterpart:**

Zhui 1

追捕to manhunt, to track down

追偿费用to levy charges

追封为圣者canonization (of sb)

追赶三部曲catch-up trilogy:

跟着跑to run after

并排跑to run abreast

领头跑to take the lead in race

追赶得很快to catch up fast

追加add-on, to append

追究某人责任to hold sb accountable

追究者，寻问者enquirer

追梦to chase or pursue dreams through striving

追求to pursuit, in pursuit of，to woo，to seek after

to pursue war追求战争

追求不止一个供应商策略to pursue a multi-vendor strategy

追求 “美国第一”议程to pursue “America first” agenda

追求美好的路径to pursue a better path

追求权力的power-mad

追求完美者perfectionist

追求一个信条to pursue a creed

追求真理to seek the truth

(死后)追认to canonize

追随者henchman, follower

追溯的权利retroactive right

追逐名人to chase celebrities blindly

追逐天体to chase celestial bodies

追逐游戏catchup

追逐疑犯to chase down suspect

追踪to stalk

追踪修订to track-change

椎管狭窄spinal stenosis

锥形线taoered line

Zhui 3

沝gathering place of shallow water beach

Zhui 4

坠落to fall, to drop

缀stitch, patch

prefix前缀

suffix后缀

infix中缀

**Zhun**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [谆10](http://xh.5156edu.com/html3/3530.html) [准10](http://xh.5156edu.com/html3/1840.html) [訰11](http://xh.5156edu.com/html3/18712.html)

**号表法no.indicator:** 1 2 3 4

**知识对应knowledge counterpart:**

Zhun 1

谆谆教导earnest instructions

Zhun 3

准备to get ready, to ready, to prepared, to gird up, to prep for, to brace for, warm up预热

ill-prepared 准备不足

well-prepared 准备充分

to ready a plan准备好了一个计划

to get ready for a roller-coaster ride准备坐过山车

准备好to be poised to win

准备立即行动to stand at the ready

准备一个应急包to prepare an emergency kit

准备袭击伊朗to be poised to hit Iran

准备战争to gird up for war

准备状态readiness stats

准不会错的surefire

准轨铁路SGR---standard-gauge railway(for bullet train)

准假to furlough

准军事装备paramilitary gear

准能赢safe bet

准新娘bride-to-be

(为...做好)准备to ready, to get ready to,

to pave way for...,铺平道路

准确无误unflattering

(获得)准许to get green light

Zhun 4

訰clutter, disorder, litter

**Zhuo**

**阴平阳平上声去声**

**曲调melody: l3 3| 3 5| 214| 5 1l**

**样品字sample character:** [拙8](http://xh.5156edu.com/html3/7658.html) [浊9](http://xh.5156edu.com/html3/8454.html)

**号表法no.indicator:** 1 2 3 4

**知识对应knowledge counterpart:**

Zhuo 1

捉迷藏hideaway

捉摸不定的freaky

拙劣模仿parody

拙劣的外交bumbling diplomacy

桌子table

All options remain on the table.所有选择都摆在桌面上

Zhuo 2

浊音voiced sound: vowel vs voiced consonant浊辅音

着陆ground zero, touchdown

着迷的obsessed

着手to set afoot

Massive fraud is afoot大面积舞弊正在进行

卓异exceptional, outstanding, remarkable, unusual

卓越的军事preeminent military

灼见penetrating view, profound view

灼热searing heat

灼热世界纪录scorching world record

茁to grow sturdily or healthily 茁壮成长

If you want to thrive in this multicultural world, language variety is vital如果你想在多元文化的世界里混得好，会说多种语言至关重要