

AP Statistics

Glossary · · every term in the course, A–Z

English	Pinyin
 Σ Σ -score <i>/ˈzɛd skɔː/</i>	biāo zhǔn fēn shù
 10% condition <i>/ten pəˈsɛnt kənˈdɪʃn/</i>	10% 10% tiáo jiàn
 addition rule <i>/əˈdɪʃn ruːl/</i>	jiā fǎ fǎ zé
 alternative hypothesis <i>/ɔːlˈtɜːnətɪv haɪˈpɒθəsɪs/</i>	bèi zé jiǎ shè
analyse <i>/ˈeəriə/</i>	fēn xī
area	miàn jī
 associated <i>/əˈsəʊsɪeɪtɪd/</i>	guān lián
 association <i>/əˈsəʊsɪˈeɪʃn/</i>	guān lián
 bar chart <i>/bɑː tʃɑːt/</i>	tiáo xíng tú
 bias <i>ˈbaɪəs/</i>	piān chā
biased <i>ˈbaɪəst/</i>	yǒu piān
 bimodal <i>/baɪˈmɒdl/</i>	shuāng fēng
 binomial <i>/baɪˈnəʊmɪəl/</i>	èr xiàng
binomial coefficient <i>/baɪˈnəʊmɪəl ˈkəʊɪˈfɪʃənt/</i>	èr xiàng shì xì shù
 binomial random variable <i>/baɪˈnəʊmɪəl ˈrændəm ˈveəriəbl/</i>	èr xiàng suí jī biàn liàng
 binomial setting <i>/baɪˈnəʊmɪəl ˈsetɪŋ/</i>	èr xiàng fēn bù qíng jìng
 bins <i>/bɪnz/</i>	zǔ jù
 blinding <i>ˈblaɪndɪŋ/</i>	máng fǎ

English	Pinyin
 blocking <i>ˈblɒkɪŋ/</i>	qū zǔ huà
blocks	qū zǔ
 boxplot <i>ˈbɒksplɒt/</i>	xiāng xiàn tú
 Categorical <i>/ˌkætɪˈɡɒrɪkl/</i>	fēn lèi
categorical variable	fēn lèi biàn liàng
category	lèi bié
 causation <i>/kɔːˈseɪʃn/</i>	yīn guǒ guān xì
 cause-and-effect <i>/kɔːz ænd ɪˈfekt/</i>	yīn guǒ guān xì
cell <i>/sel/</i>	dān yuán gé
 center <i>ˈsentə/</i>	zhōng xīn
 Central Limit Theorem <i>ˈsentrəl ˈlɪmɪt ˈθiərəm/</i>	zhōng xīn jí xiàn dìng lǐ
Central Limit Theorem (CLT)	zhōng xīn jí xiàn dìng lǐ
 chance <i>/tʃæns/</i>	ǒu rán
 chi-square <i>/kaɪ skweə/</i>	kǎ fāng
 chi-square statistic <i>/kaɪ skweə stətɪstɪk/</i>	kǎ fāng tǒng jì liàng
 Cluster <i>ˈklʌstə/</i>	zhěng qún
cluster random sampling	zhěng qún suí jī chōu yàng
 clusters <i>ˈklʌstəz/</i>	qún
 coefficient of determination <i>/ˌkəʊɪˈfɪʃənt ɒv dɪˌtɜːmɪˈneɪʃn/</i>	jué dìng xì shù
 combined (pooled) <i>/kəmˈbaɪnd/</i>	hé bìng

English	Pinyin
 combined (pooled) proportion <i>/kəm'baɪnd prə'pɔːʃn/</i> communicate	hé bìng bǐ lì biǎo dá
 complement <i>/'kɒmplɪmənt/</i>	bǔ jí
 complement rule <i>/'kɒmplɪmənt ruːl/</i>	bǔ jí fǎ zé
 completely randomized design <i>/kəm'pliːtli 'rændəmaɪzd dɪ'zaɪn/</i> components <i>/kəm'pəʊnənts/</i> conclusion <i>/kən'kluːʒn/</i>	wán quán suí jī shè jì zǔ chéng bù fèn jié lùn
 conditional distribution <i>/kən'dɪʃənl ,dɪstri'bjuːʃn/</i>	tiáo jiàn fēn bù
 conditional probability <i>/kən'dɪʃənl ,prɒbə'bɪlɪti/</i>	tiáo jiàn gài lǜ
 conditional relative frequency <i>/kən'dɪʃənl 'relatɪv 'friːkwənsi/</i>	tiáo jiàn xiāng duì pín lǜ
[] confidence interval <i>/'kɒnfɪdəns 'ɪntəvl/</i>	zhì xìn qū jiān
 confidence level <i>/'kɒnfɪdəns 'levl/</i>	zhì xìn shuǐ píng
 Confounding <i>/kən'faʊndɪŋ/</i>	hùn zá
 confounding variable <i>/kən'faʊndɪŋ 'veəriəbl/</i> context <i>/'kɒntekst/</i>	hùn zá biàn liàng qíng jìng
— continuous <i>/kən'tɪnjuːəs/</i>	lián xù
 continuous random variable <i>/kən'tɪnjuːəs 'rændəm 'veəriəbl/</i>	lián xù suí jī biàn liàng
 control <i>/kən'trəʊl/</i>	kòng zhì

English	Pinyin
 control group <i>/kən'trəʊl gruːp/</i>	duì zhào zǔ
 convenience sample <i>/kən'viːniəns 'sæmpl/</i>	fāng biàn yàng běn
 correlation <i>/'kɒrɪ'leɪʃn/</i>	xiāng guān xìng
 correlation coefficient <i>/'kɒrɪ'leɪʃn ,kəʊɪ'fɪʃənt/</i> critical value <i>/'krɪtɪkl 'væljuː/</i>	xiāng guān xì shù lín jiè zhí
 cumulative relative frequency graph <i>/'kjuːmjələtɪv 'relatɪv 'friːkwənsi græf/</i>	lěi jī xiāng duì pín lǜ tú
 data <i>/'deɪtə/</i> decision <i>/dɪ'sɪʒn/</i>	shù jù jué cè
 degrees of freedom <i>/dɪ'ɡriːz ɒv 'friːdəm/</i>	zì yóu dù
 descriptive statistics <i>/dɪ'skrɪptɪv stə'tɪstɪks/</i>	miáo shù tǒng jì xué
 difference of two sample means <i>/'dɪfrəns ɒv tuː 'sæmpl miːnz/</i>	liǎng gè yàng běn jūn zhí zhī chà
 difference of two sample proportions <i>/'dɪfrəns ɒv tuː 'sæmpl prə'pɔːʃnz/</i> direction <i>/daɪ'rekʃn/</i>	liǎng gè yàng běn bǐ lì zhī chà fāng xiàng
 discrete <i>/dɪ'skrɪt/</i>	lí sàn
 discrete random variable <i>/dɪ'skrɪt 'rændəm 'veəriəbl/</i>	lí sàn suí jī biàn liàng
 distribution <i>/'dɪstri'bjuːʃn/</i>	fēn bù
 dotplot <i>/'dɒtplɒt/</i>	diǎn tú
 double-blind <i>/'dʌbl blaɪnd/</i>	shuāng máng

English	Pinyin
 empirical rule <i>/em'pɪrɪkl ru:l/</i>	jīng yàn fǎ zé
 equally likely <i>/'i:kwəli 'laɪkli/</i>	děng kě néng
estimator	gū jì liàng
event <i>/i'vent/</i>	shì jiàn
 expected counts <i>/ek'spektɪd kaʊnts/</i>	qī wàng pín shuò
 expected value <i>/ek'spektɪd 'vælju:/</i>	qī wàng zhí
 experiment <i>/ek'sperɪmənt/</i>	shí yàn
 experimental units <i>/ek'sperɪ'mentl 'ju:nɪts/</i>	shí yàn dān yuán
 explanatory variable <i>/ek'splænətəri 'veəriəbl/</i>	jiě shì biàn liàng
 extrapolation <i>/ek'stræpəleɪʃn/</i>	wài tuī
extreme <i>/ek'stri:m/</i>	jí duān
 factor <i>/'fæktə/</i>	yīn zi
 fail to reject <i>/feɪl tə rɪ'dʒekt/</i>	bù jù jué
 five-number summary <i>/faɪv 'nʌmbə 'sʌməri/</i>	wǔ shù gài kuò
form <i>/fɔ:m/</i>	xíng tài
frequency <i>/'fri:kwənsi/</i>	pín shuò
 frequency table <i>/'fri:kwənsi 'teɪbl/</i>	pín shuò biǎo
generalize	tuī guǎng
 geometric <i>/,dʒi:əv'metrik/</i>	jǐ hé
 geometric random variable <i>/,dʒi:əv'metrik 'rændəm 'veəriəbl/</i>	jǐ hé suí jī biàn liàng

English	Pinyin
geometric setting	jǐ hé fēn bù qíng jìng
 goodness-of-fit <i>/'gʊdnəs ɒv fit/</i>	nǐ hé yōu dù
 goodness-of-fit (GOF) <i>/'gʊdnəs ɒv fit/</i>	nǐ hé yōu dù
grand total	zǒng jì
 high-leverage <i>/haɪ 'li:vərɪdʒ/</i>	gāo gàng gǎn
 histogram <i>/'hɪstəgræm/</i>	zhí fāng tú
 homogeneity <i>/'hɒməʊdʒneɪti/</i>	qí xìng
implement	shí shī
 independence <i>/,ɪndɪ'pendəns/</i>	dú lì xìng
 independent <i>/,ɪndɪ'pendənt/</i>	dú lì
 independent events <i>/,ɪndɪ'pendənt ɪ'vents/</i>	dú lì shì jiàn
independent normal	dú lì zhèng tài
 independent samples <i>/,ɪndɪ'pendənt 'sæmplz/</i>	dú lì yàng běn
individual	gè tǐ
 inference <i>/'ɪnfərəns/</i>	tuī duàn
 inferential statistics <i>/ɪnfə'renʃl stə'tɪstɪks/</i>	tuī duàn tǒng jì
 influential <i>/,ɪnflu:'enʃl/</i>	yǒu yǐng xiǎng de
influential point	yǐng xiǎng diǎn
 interquartile range <i>/,ɪntə'kwɔ:təl reɪndʒ/</i>	sì fēn wèi jù
intersection <i>/,ɪntə'sekʃn/</i>	jiāo jí
joint relative frequency	lián hé xiāng duì pín lǚ

English	Pinyin
justify	lùn zhèng
large counts condition <i>/lɑːdʒ kaʊnts kən'dɪʃn/</i>	dà jì shù tiáo jiàn
larger sample size	gèng dà de yàng běn liàng
law of large numbers <i>/lɔː vɪ lɑːdʒ 'nʌmbəz/</i>	dà shù dìng lǚ
least-squares regression <i>/liːst skweəz rɪ'greʃn/</i>	zuì xiǎo èr chéng huí guī
least-squares regression line <i>/liːst skweəz rɪ'greʃn laɪn/</i>	zuì xiǎo èr chéng huí guī xiàn
linear <i>/'liːniə/</i>	xiàn xìng
linear relationship <i>/'liːniə rɪ'leɪʃənʃɪp/</i>	xiàn xìng guān xì
linear transformation <i>/'liːniə trænʃɔː'meɪʃn/</i>	xiàn xìng biàn huàn
margin of error <i>/'mɑːdʒɪn vɪ 'erə/</i>	wù chā fú dù
marginal distributions <i>/'mɑːdʒɪnl ,dɪstrɪ'bjuːʃnz/</i>	biān yuán fēn bù
marginal relative frequency	biān jì xiāng duì pín lǚ
matched-pairs design <i>/mætʃt peəz dɪ'zain/</i>	pèi duì shè jì
mean <i>/miːn/</i>	jūn zhí
mean (expected value) $()$ <i>/miːn/</i>	jūn zhí (qī wàng zhí)
median <i>/'miːdiːən/</i>	zhōng wèi shù
method	fāng fǎ
multiplication rule <i>/,mʌltɪplɪ'keɪʃn ruːl/</i>	chéng fǎ fǎ zé
mutually exclusive <i>/'mjuːtʃuːəli eks'kluːsɪv/</i>	hù chì
mutually exclusive (dis-joint)	hù chì (bù xiāng jiāo)

English	Pinyin
non-linear	fēi xiàn xìng
nonresponse <i>/,nɒnrɪ'spɒns/</i>	wú huí yìng
normal distribution <i>/'nɔːml ,dɪstrɪ'bjuːʃn/</i>	zhèng tài fēn bù
normal model <i>/'nɔːml 'mɒdl/</i>	zhèng tài mó xíng
normal probability plot	zhèng tài gài lǚ tú
normality	zhèng tài xìng
null hypothesis <i>/nʌl haɪ'pɒθəsis/</i>	yuán jiǎ shè
number of samples	yàng běn shù
number of variables	biàn liàng shù
observational study <i>/vɒbzə'veɪʃənl 'stʌdi/</i>	guān chá xìng yán jiū
observed counts <i>/vɒb'zɜːvd kaʊnts/</i>	guān cè pín shuò
one-sample t-test	t dān yàng běn t jiǎn yàn
one-sample z-test <i>/wʌn 'sæmpl zed test/</i>	z dān yàng běn z jiǎn yàn
outcomes	jié guǒ
outliers <i>/'aʊtlaɪəz/</i>	lí qún zhí
overprediction	gāo gū
p-value <i>/piː 'væljuː/</i>	P P zhí
paired (matched-pairs)	pèi duì
paired data <i>/peəd 'deɪtə/</i>	pèi duì shù jù
paired t-test	t pèi duì t jiǎn yàn
parallel boxplots <i>/'pærəleɪ 'bɒksplɒts/</i>	píng xíng xiāng xiàn tú

English	Pinyin
 parameter <i>/pə'remɪtə/</i>	cān shù
 percentile <i>/pə'sentail/</i>	bǎi fēn wèi shù
 pie chart <i>/paɪ tʃɑ:t/</i>	bǐng tú
 placebo <i>/plə'si:bəʊ/</i>	ān wèi jì
placebo effect	ān wèi jì xiào yìng
plausible	kě xìn
 point estimate <i>/point 'estimat/</i>	diǎn gū jì
 population <i>/ˌpɒpjə'leɪʃn/</i>	zǒng tǐ
 population distribution <i>/ˌpɒpjə'leɪʃn ˌdɪstrɪ'bju:ʃn/</i>	zǒng tǐ fēn bù
population mean	zǒng tǐ jūn zhí
 power <i>/ˈpaʊə/</i>	gōng xiào
predict <i>/pri'dikt/</i>	yù cè
 probability <i>/ˌprɒbə'bɪlɪti/</i>	gài lǜ
 probability distribution <i>/ˌprɒbə'bɪlɪti ˌdɪstrɪ'bju:ʃn/</i>	gài lǜ fēn bù
probability model	gài lǜ mó xíng
probability rules	gài lǜ fǎ zé
 proportion <i>/prə'pɔ:ʃn/</i>	bǐ lì
 Quantitative <i>/ˈkwɒntɪtətɪv/</i>	dìng liàng
quantitative variable	dìng liàng biàn liàng
quartiles <i>/ˈkwɔ:taɪlz/</i>	sì fēn wèi shù
 question wording bias <i>/ˈkwɛstʃn 'wɜ:dɪŋ 'baɪəs/</i>	wèn tí cuò cí piān chā

English	Pinyin
 random <i>/ˈrændəm/</i>	suí jī
 random assignment <i>/ˈrændəm ə'saɪnmənt/</i>	suí jī fēn pèi
 random sampling <i>/ˈrændəm 'sæmplɪŋ/</i>	suí jī chōu yàng
 random selection <i>/ˈrændəm sɪ'lekʃn/</i>	suí jī xuǎn zé
 random variable <i>/ˈrændəm 'veəriəbl/</i>	suí jī biàn liàng
 randomization <i>/ˌrændəmaɪ'zeɪʃn/</i>	suí jī huà
 randomized block design <i>/ˌrændəmaɪzd blɒk dɪ'zaɪn/</i>	suí jī qū zǔ shè jì
 randomness <i>/ˈrændəmnəs/</i>	suí jī xìng
 range <i>/reɪndʒ/</i>	jí chà
 regression <i>/rɪ'ɡresʃn/</i>	huí guī
 reject <i>/rɪ'dʒekt/</i>	jù jué
 relative frequency <i>/ˈrelətɪv 'fri:kwənsi/</i>	xiāng duì pín lǜ
 replication <i>/ˌreplɪ'keɪʃn/</i>	chóng fù
 residual <i>/rɪ'sɪdʒu:əl/</i>	cán chà
 residual plot <i>/rɪ'sɪdʒu:əl plɒt/</i>	cán chà tú
 resistant <i>/rɪ'zɪstənt/</i>	wěn jiàn
response <i>/rɪ'spɒns/</i>	xiǎng yìng biàn liàng
 response bias <i>/rɪ'spɒns 'baɪəs/</i>	huí yìng piān chā
 response variable <i>/rɪ'spɒns 'veəriəbl/</i>	xiǎng yìng biàn liàng
 sample <i>/ˈsæmpl/</i>	yàng běn

English	Pinyin
sample size	yàng běn liàng
 sample slope /ˈsæmpl sləʊp/	yàng běn xié lǚ
 sample space /ˈsæmpl speɪs/	yàng běn kōng jiān
 sampling distribution /ˈsæmplɪŋ ˌdɪstrɪˈbjʊːʃn/	chōu yàng fēn bù
 sampling variability /ˈsæmplɪŋ ˌveəriəˈbɪlɪti/	chōu yàng biàn yì xìng
 scatterplot /ˈskætəplɒt/	sàn diǎn tú
 scope of inference /skəʊp ɒv ˈɪnfərəns/	tuī duàn fàn wéi
 segmented bar chart /segˈmentɪd bɑː tʃɑːt/	fēn duàn tiáo xíng tú
select	xuǎn zé
 shape /ʃeɪp/	xíng zhuàng
side-by-side bar chart	bìng liè tiáo xíng tú
% significance level /sɪɡˈnɪfɪkəns ˈleɪvl/	xiǎn zhù xìng shuǐ píng
 significance test /sɪɡˈnɪfɪkəns test/	xiǎn zhù xìng jiǎn yàn
 simple random sample (SRS) /ˈsɪmpl ˈrændəm ˈsæmpl/	jiǎn dān suí jī chōu yàng
 simulation /ˌsɪmjʊˈleɪʃn/	mó nǐ
 single-blind /ˈsɪŋɡl blaɪnd/	dān máng
<i>I</i> skewed /skjuːd/	piān xié
 skewed left /skjuːd left/	zuǒ piān
 skewed right /skjuːd raɪt/	yòu piān
 slope /sləʊp/	xié lǚ

English	Pinyin
 spread /spred/	fēn bù fàn wéi
squared residuals	cán chà píng fāng
 standard deviation /ˈstændəd ˌdiːvɪˈeɪʃn/	biāo zhǔn chà
standard deviation of the residuals	cán chà biāo zhǔn chà
 standard error /ˈstændəd ˈerə/	biāo zhǔn wù
 standard normal /ˈstændəd ˈnɔːml/	biāo zhǔn zhèng tài
standard normal distribution	biāo zhǔn zhèng tài fēn bù
Σ statistic /stəˈtɪstɪk/	tǒng jì liàng
Σ statistical inference /stəˈtɪstɪkl ˈɪnfərəns/	tǒng jì tuī duàn
 statistical question /stəˈtɪstɪkl ˈkwestʃn/	tǒng jì wèn tí
 statistically significant /stəˈtɪstɪkli sɪɡˈnɪfɪkənt/	tǒng jì xiǎn zhù
Σ Statistics /stəˈtɪstɪks/	tǒng jì xué
 stem-and-leaf plot /stem ænd liːf plɒt/	jīng yè tú
strata	céng
 Stratified /ˈstrætɪfaɪd/	fēn céng
stratified random sampling	fēn céng suí jī chōu yàng
strength	qiáng dù
subjects	shòu shì zhě
sum or difference	hé huò chà
summary statistic	huì zǒng tǒng jì liàng
surprising	líng rén yì wài

English		Pinyin
 symmetric		duì chèn
/sɪ'metrik/		
 Systematic		xì tǒng
/ˌsɪstə'mætik/		
systematic random sam- pling		xì tǒng suí jī chōu yàng
 Test for homogeneity		tóng zhì xìng
/test fəː 'hɒməʊdʒneɪti/		
 Test for independence		dú lì xìng
/test fəː ˌɪndɪ'pendəns/		
 test statistic		jiǎn yàn tǒng jì liàng
/test stə'tɪstɪk/		
 transformation		biàn huàn
/trænsfɔː'meɪʃn/		
 treatment		chǔ lǐ
/'tri:tmənt/		
 trial		yī cì shì yàn
/'traɪəl/		
 true (population) slope		zǒng tǐ xié lǜ
/truː sləʊp/		
two-sample t-interval	t	shuāng yàng běn t qū jiān
two-sample t-test	t	shuāng yàng běn t jiǎn yàn
 two-sample z-interval	z	shuāng yàng běn z qū jiān
/tuː 'sæmpl zed 'ɪntəvl/		
two-sample z-test	z	shuāng yàng běn z jiǎn yàn
 two-way table		shuāng xiàng biǎo
/tuː weɪ 'teɪbl/		
 Type I error		dì yī lèi cuò wù
/taɪp aɪ 'erə/		
 Type II error		dì èr lèi cuò wù
/taɪp 'tuː 'erə/		
type of data		shù jù lèi xíng
 unbiased		wú piān
/ʌn'baɪəst/		
 uncertainty		bù què dìng xìng
/ʌn'sɜːtənti/		
 undercoverage		fù gài bù zú
/ˌʌndə'kʌvərɪdʒ/		

English	Pinyin
underprediction	dī gū
 uniform	jūn yún
/ˈjuːnɪfɔːm/	
 unimodal	dān fēng
/ˌʌnɪ'mɒdl/	
 union	bìng jí
/ˈjuːniən/	
 variability	biàn yì xìng
/ˌveəriə'bɪləti/	
 variable	biàn liàng
/'veəriəbl/	
 variance	fāng chà
/'veəriəns/	
 variation	biàn yì
/ˌveəri'eɪʃn/	
 Venn diagram	wéi ēn tú
/ven 'daɪəgræm/	
 voluntary response	zì yuàn huí yìng
/'vɒləntəri rɪ'spɒns/	
 y-intercept	zòng jié jù
/waɪ ˌɪntə'sept/	
 z-score	biāo zhǔn fēn shù
/zed skɔː/	