

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% tiáo jiàn
$+$ addition rule <i>/əˈdɪʃn ruːl/</i>	jiā fǎ fǎ zé
$\Uparrow$ alternative hypothesis <i>/ɔːlˈtɜːnətɪv haɪˈpɒθəsɪs/</i>	bèi zé jiǎ shè
analyse	fēn xī
area <i>/ˈeəriə/</i>	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 ˌkəʊɪˈfɪʃənt/</i>	èr xiàng shì xī 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 /'blɒkɪŋ/ blocks	qū zǔ huà qū zǔ
 boxplot /'bɒksplɒt/	xiāng xiàn tú
 Categorical /ˌkætɪ'ɡɒrɪkl/ categorical variable category	fēn lèi fēn lèi biàn liàng lèi bié
 causation /kə:'seɪʃn/	yīn guǒ guān xì
 cause-and-effect /kə:'z ænd ɪ'fekt/ cell /sel/	yīn guǒ guān xì dān yuán gé
 center /'sentə/	zhōng xīn
 Central Limit Theorem /'sentrəl 'lɪmɪt 'θɪərəm/ Central Limit Theorem (CLT)	zhōng xīn jí xiàn dìng lǐ zhōng xīn jí xiàn dìng lǐ
 chance /tʃæns/	ǒu rán
 chi-square /kaɪ skweə/	kǎ fāng
 chi-square statistic /kaɪ skweə stə'tɪstɪk/	kǎ fāng tǒng jì liàng
 Cluster /'klʌstə/ cluster random sampling	zhěng qún zhěng qún suí jī chōu yàng
 clusters /'klʌstəz/	qún
 coefficient of determination /ˌkəvɪ'tɪʃənt ɒv dɪ'tɜːmɪ'neɪʃn/	jué dìng xì shù
 combined (pooled) /kəm'baɪnd/	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'kluzən/</i>	wán quán suí jī shè jì zǔ chéng bù fèn jié lùn
 conditional distribution <i>/kən'dɪʃənl ˌdɪstrɪ'bjuːʃn/</i>	tiáo jiàn fēn bù
 conditional probability <i>/kən'dɪʃənl ˌprɒbə'bɪləti/</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 gru:p/</i>	duì zhào zǔ
 convenience sample <i>/kən'vi:njəns 'sæmpl/</i>	fāng biàn yàng běn
 correlation <i>/,kɒrɪ'leɪʃn/</i>	xiāng guān xìng
 correlation coefficient <i>/,kɒrɪ'leɪʃn ,kəʊ'fɪʃənt/</i>	xiāng guān xì shù
 critical value <i>/'krɪtɪkl 'vælju:/</i>	lín jiè zhí
 cumulative relative frequency graph <i>/'kju:mjʊlətɪv 'relatɪv 'fri:kwənsi græf/</i>	lěi jī xiāng duì pín lǜ tú
 data <i>/'deɪtə/</i>	shù jù
 decision <i>/dɪ'sɪʒn/</i>	jué cè
 degrees of freedom <i>/dɪ'grɪ:z ɒv 'fri:dəm/</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 tu: 'sæmpl mi:nz/</i>	liǎng gè yàng běn jūn zhí zhī chà
 difference of two sample proportions <i>/'dɪfrəns ɒv tu: 'sæmpl prə'pɔ:ʃnz/</i>	liǎng gè yàng běn bǐ lì zhī chà
 direction <i>/daɪ'rekʃn/</i>	fāng xiàng
 discrete <i>/dɪ'skri:t/</i>	lí sàn
 discrete random variable <i>/dɪ'skri:t 'rændəm 'veəriəbl/</i>	lí sàn suí jī biàn liàng
 distribution <i>/,dɪstrɪ'bju:ʃn/</i>	fēn bù
 dotplot <i>/'dɒtplɒt/</i>	diǎn tú
 double-blind <i>/'dʌbl blaɪnd/</i>	shuāng máng

English	Pinyin
 empirical rule <i>/em'pirikl ru:l/</i>	jīng yàn fǎ zé
$=$ equally likely <i>/'i:kwəli 'laikli/</i>	děng kě néng
estimator	gū jì liàng
event <i>/i'vent/</i>	shì jiàn
 expected counts <i>/ek'spektɪd kəʊnts/</i>	qī wàng pín shuò
$-$ expected value <i>/ek'spektɪd 'vælju:/</i>	qī wàng zhí
 experiment <i>/ek'sperimənt/</i>	shí yàn
 experimental units <i>/ek'speri'mentl 'ju:nits/</i>	shí yàn dān yuán
$\rightarrow$ 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
$\times$ factor <i>/'fæktə/</i>	yīn zi
$\checkmark$ 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
$\times$ geometric <i>/,dʒi:əv'metrik/</i>	jǐ hé
$\times$ 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>/ˈgʊdnəs ɒv fɪt/</i>	nǐ hé yōu dù
✓✓ goodness-of-fit (GOF) <i>/ˈgʊdnəs ɒv fɪt/</i>	nǐ hé yōu dù
grand total	zǒng jì
⚓ high-leverage <i>/haɪ ˈli:vərɪdʒ/</i>	gāo gàng gǎn
▮▮ histogram <i>/ˈhɪstəgræm/</i>	zhí fāng tú
= homogeneity <i>/ˈhɒməʊdʒneɪti/</i>	qí xìng
implement	shí shī
↻ independence <i>/ˌɪndɪˈpendəns/</i>	dú lì xìng
↻ independent <i>/ˌɪndɪˈpendənt/</i>	dú lì
↻ independent events <i>/ˌɪndɪˈpendənt ɪˈvents/</i>	dú lì shì jiàn
independent normal	dú lì zhèng tài
↻ independent samples <i>/ˌɪndɪˈpendənt ˈsæmplz/</i>	dú lì yàng běn
individual	gè tǐ
⚙ inference <i>/ˈɪnfərəns/</i>	tuī duàn
⌒ inferential statistics <i>/ɪnfəˈrenʃl stəˈtɪstɪks/</i>	tuī duàn tǒng jì
☆ influential <i>/ˌɪnfluːˈenʃl/</i>	yǒu yǐng xiǎng de
influential point	yǐng xiǎng diǎn
[] interquartile range <i>/ˌɪntəˈkwɔːtaɪl reɪndʒ/</i>	sì fēn wèi jù
intersection <i>/ˌɪntəˈsekʃn/</i>	jiāo jí
joint relative frequency	lián hé xiāng duì pín lǜ

English		Pinyin
	justify	lùn zhèng
#	large counts condition <i>/lɑ:dʒ kaunts kən'dʒɪn/</i>	dà jì shù tiáo jiàn
	larger sample size	gèng dà de yàng běn liàng
	law of large numbers <i>/lɔ: ɒv lɑ:dʒ 'nʌmbəz/</i>	dà shù dīng lǚ
	least-squares regression <i>/li:st skweəz rɪ'greʃn/</i>	zuì xiǎo èr chéng huí guī
	least-squares regression line <i>/li:st 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 trænʃɔ:'meɪʃn/</i>	xiàn xìng biàn huàn
<>	margin of error <i>/'mɑ:dʒɪn ɒv 'erə/</i>	wù chā fú dù
	marginal distributions <i>/'mɑ:dʒɪnl ,dɪstrɪ'bju:ʃnz/</i>	biān yuán fēn bù
	marginal relative frequency	biān jì xiāng duì pín lǜ
	matched-pairs design <i>/mætʃt peəz dɪ'zain/</i>	pèi duì shè jì
—	mean <i>/mi:n/</i>	jūn zhí
—	mean (expected value) $()$ <i>/mi:n/</i>	jūn zhí (qī wàng zhí)
	median <i>/'mi:di:ən/</i>	zhōng wèi shù
	method <i>/'meθəd/</i>	fāng fǎ
×	multiplication rule <i>/,mʌltɪplɪ'keɪʃn ru:l/</i>	chéng fǎ fǎ zé
	mutually exclusive <i>/'mju:tʃu:əli eks'klu:sɪv/</i>	hù chì
	mutually exclusive (dis-joint)	hù chì (bù xiāng jiāo)

English		Pinyin
non-linear		fēi xiàn xìng
 nonresponse <i>/ˌnɒnrɪˈspɒns/</i>		wú huí yìng
 normal distribution <i>/'nɔːml,dɪstrɪˈbjʊːʃn/</i>		zhèng tài fēn bù
 normal model <i>/'nɔːml'mɒdl/</i>		zhèng tài mó xíng
normal probability plot		zhèng tài gài lǜ tú
normality		zhèng tài xìng
= null hypothesis <i>/nʌl haɪˈpɒθəsɪs/</i>		yuán jiǎ shè
number of samples		yàng běn shù
number of variables		biàn liàng shù
 observational study <i>/ɒbzəˈveɪʃənl'stʌdi/</i>		guān chá xìng yán jiū
 observed counts <i>/ɒbˈzɜːvd 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 <i>/'aʊtkʌmz/</i>		jié guǒ
 outliers <i>/'aʊtlɑːəz/</i>		lí qún zhí
overprediction		gāo gū
 p-value <i>/piːˈvæljuː/</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>/'pærələl'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>/pɔɪnt 'estɪmət/</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>/'paʊə/</i>	gōng xiào
predict <i>/prɪ'dɪkt/</i>	yù cè
 probability <i>/ˌprɒbə'bɪlɪti/</i>	gài lǚ
 probability distribution <i>/ˌprɒbə'bɪlɪti ˌdɪstrɪ'bju:ʃn/</i>	gài lǚ fēn bù
probability model	gài lǚ mó xíng
probability rules	gài lǚ fǎ zé
 proportion <i>/prə'pɔ:ʃn/</i>	bǐ lì
 Quantitative <i>/'kwɒntɪtɪtɪv/</i>	dìng liàng
quantitative variable	dìng liàng biàn liàng
quartiles <i>/'kwɔ:taɪlz/</i>	sì fēn wèi shù
 question wording bias <i>/'kwɛstʃn 'wɜ:ɪdɪŋ 'baɪəs/</i>	wèn tí cuò cí piān chā

English	Pinyin
 random <i>/ˈrændəm/</i>	suí jī
 random assignment <i>/ˈrændəm əˈsaɪnmənt/</i>	suí jī fēn pèi
 random sampling <i>/ˈrændəm ˈsæmplɪŋ/</i>	suí jī chōu yàng
 random selection <i>/ˈrændəm sɪˈleɪʃn/</i>	suí jī xuǎn zé
(x) random variable <i>/ˈrændəm ˈveəriəbl/</i>	suí jī biàn liàng
 randomization <i>/ˌrændəmaɪˈzeɪʃn/</i>	suí jī huà
 randomized block design <i>/ˈrændəmaɪzd blɒk dɪˈzaɪn/</i>	suí jī qū zǔ shè jì
 randomness <i>/ˈrændəmnəs/</i>	suí jī xìng
↕ range <i>/reɪndʒ/</i>	jí chà
 regression <i>/rɪˈɡreʃn/</i>	huí guī
⊗ reject <i>/rɪˈdʒekt/</i>	jù jué
% relative frequency <i>/ˈrelatɪv ˈfri:kwənsi/</i>	xiāng duì pín lǚ
 replication <i>/ˌreplɪˈkeɪʃn/</i>	chóng fù
↕ residual <i>/rɪˈsɪdʒuəl/</i>	cán chà
 residual plot <i>/rɪˈsɪdʒuəl plɒt/</i>	cán chà tú
 resistant <i>/rɪˈzɪstənt/</i>	wěn jiàn
response <i>/rɪˈspɒns/</i>	xiǎng yìng biàn liàng
 response bias <i>/rɪˈspɒns ˈbaɪəs/</i>	huí yìng piān chā
 response variable <i>/rɪˈspɒns ˈveəriəbl/</i>	xiǎng yìng biàn liàng
 sample <i>/ˈsæmpl/</i>	yàng běn

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

English	Pinyin
↔ spread <i>/spred/</i> squared residuals	fēn bù fàn wéi cán chà píng fāng
🔔 standard deviation <i>/'stændəd ,di:vɪ'eɪʃn/</i> standard deviation of the residuals	biāo zhǔn chà cán chà biāo zhǔn chà
📏 standard error <i>/'stændəd 'erə/</i>	biāo zhǔn wù
🔔 standard normal <i>/'stændəd 'nɔ:ml/</i> standard normal distri- bution	biāo zhǔn zhèng tài biāo zhǔn zhèng tài fēn bù
Σ statistic <i>/stə'tɪstɪk/</i>	tǒng jì liàng
Σ statistical inference <i>/stə'tɪstɪkl 'ɪnfərəns/</i>	tǒng jì tuī duàn
❓ statistical question <i>/stə'tɪstɪkl 'kwɛstʃn/</i>	tǒng jì wèn tí
★ statistically significant <i>/stə'tɪstɪkli sɪg'nɪfɪkənt/</i>	tǒng jì xiǎn zhù
Σ Statistics <i>/stə'tɪstɪks/</i>	tǒng jì xué
🍃 stem-and-leaf plot <i>/stem ænd li:f plɒt/</i> strata	jīng yè tú céng
📦 Stratified <i>/'strætɪfəɪd/</i> stratified random sam- pling strength subjects sum or difference summary statistic surprising	fēn céng fēn céng suí jī chōu yàng qiáng dù shòu shì zhě hé huò chà huì zǒng tǒng jì liàng lìng rén yì wài

English		Pinyin
 symmetric <i>/sɪ'metrɪk/</i>		duì chèn
 Systematic <i>/sɪstə'mætɪk/</i>		xì tǒng
systematic random sampling		xì tǒng suí jī chōu yàng
= Test for homogeneity <i>/test fɔː 'hɒməʊdʒneɪti/</i>		tóng zhì xìng
 Test for independence <i>/test fɔː ɪnɪ'dependəns/</i>		dú lì xìng
 test statistic <i>/test stə'tɪstɪk/</i>		jiǎn yàn tǒng jì liàng
 transformation <i>/trænsfɔː'meɪʃn/</i>		biàn huàn
 treatment <i>/'tri:tmənt/</i>		chǔ lǐ
 trial <i>/'traɪəl/</i>		yī cì shì yàn
 true (population) slope <i>/truː sləʊp/</i>		zǒng tǐ xié lǚ
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 <i>/tuː 'sæmpl zed 'ɪntəvl/</i>	z	shuāng yàng běn z qū jiān
two-sample z-test	z	shuāng yàng běn z jiǎn yàn
 two-way table <i>/tuː weɪ 'teɪbl/</i>		shuāng xiàng biǎo
 Type I error <i>/taɪp aɪ 'erə/</i>		dì yī lèi cuò wù
 Type II error <i>/taɪp 'tuː 'erə/</i>		dì èr lèi cuò wù
type of data		shù jù lèi xíng
 unbiased <i>/ʌn'baɪəst/</i>		wú piān
 uncertainty <i>/ʌn'sɜːtənti/</i>		bù què dìng xìng
 undercoverage <i>/ʌndə'kʌvərɪdʒ/</i>		fù gài bù zú

English	Pinyin
underprediction	dī gū
 uniform <i>/ˈjuːnɪfɔːm/</i>	jūn yún
 unimodal <i>/ˌʌnɪˈmɒdl/</i>	dān fēng
 union <i>/ˈjuːniən/</i>	bìng jí
 variability <i>/ˌveəriəˈbɪlɪti/</i>	biàn yì xìng
 variable <i>/ˈveəriəbl/</i>	biàn liàng
 variance <i>/ˈveəriəns/</i>	fāng chà
 variation <i>/ˌveəriˈeɪʃn/</i>	biàn yì
 Venn diagram <i>/ven ˈdaɪəgrəm/</i>	wéi ēn tú
 voluntary response <i>/ˈvɒləntəri rɪˈspɒns/</i>	zì yuàn huí yìng
 y-intercept <i>/waɪ ˌɪntəˈsept/</i>	zòng jié jù
 z-score <i>/zed skɔː/</i>	biāo zhǔn fēn shù