```
統計分析法 第二回レポート
実行環境
python3.9.9
pipenv
(これ以降のモジュー)
pandas
matplotib
scikit-learn
      ファイルのエンコーディングについて
                                                                                                                                                                                                                                    ・
いては、始色もで簡を込むことができたが、output/baseball.txtについては、由色もでエンコーディングしてもエラーが出たため、UTF4でエンコーディングしている。
         主成分分析の流れについて
      主放力が何の流れについて

主放力が低い法はern-decomposition.FCAを用いて行った。

データについては、出例で使き取出した後、標準化して削している。

また、固有他、寄与事はでれてれ、stieern-decomposition.FCA-

ソースコードをプログラムに示す。

プログラム1:主席分外を行うプログラムのソースコードandpeapy
               import matplotlib.pyplot as plt
import numpy as mp
import pandas as pd
from sklearn.decomposition import PCA
               def pt_analyze(data: pd.DataFrame, title: str)
===
主席分別報復行う
Paranters
                                     # 主成分分を行う
pcm = PCA()
pcm.fit(data_std)
feat = pcm.transform(data_std)
                                 feat = por interdere(data_tat)

ESCREPATED = SCREPATED = SCREPATED
                                     print("raise:\u00fc/case)")

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Berg 0.78 ABBERT BERG CONTROL (LITTLE) and 
Component + pd. Staff rease (pec. component, index ("FFC(x))" 
for it range (indexis.id.cinimos)); 
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print ("rumponent.hase())

print ("
                                     plt.grid()
plt.xisbel("SC1")
plt.yisbel("SC1")
plt.yisbel("SC2")
plt.title("f(title)_bestvector")
plt.sibes()
fig.ssvefig(f"output/(title)_bestvector.psg")
      中学生の成績データの分析
成績のデータはすべて比例尺度であるため、すべてのデータを主成分分析に用いた。
      実行結果
         seiseki.txt卷主成分分析する
import pandas as pd
from arc.pca import pc_analyze
from arc.read_data import read_file
      PCI PCZ
0 0.05641499208220925 03168698709324856
1 0.14790580034018696 -0.000469526637561771
2 0.5460499786493918 0.542760723983586
3 -5.1077488849632256 0.228693155213
4 -2.656543503171749 0.661903544738891
      14 -2.705528425989146
15 4.0811798825785655
```

PC1 44 -3.3600674781844844	PC2 0.8162192926287464	-0.4309604315595803	-0.05750944946041829	D.30447042221039167	-1.0523111516567145	-0.14232614298849922	0.3882205829151152	-0.0734427198284024
45 0.5647067401860213 46 1.942430887104393	0.24244805444946213	0.06390560048075844 1.1935215286295062	0.8157534178458622 -0.43202503131831543	-0.8737996063174297 -0.08886456606869374	0.4744344236887908 0.04578038234711496	-0.4154202425788623 0.3947554957355104	-0.059867161077814056 0.6169319976152808	-0.22046549924575265 -0.03148293334025466
47 -4.061437233955031 48 -2.1654759082649275	1.7403918183266762	-0.6700032737231517	-0.23262199752458013 0.8227668762158109	0.19050005850932	0.41146765427156595	-0.18661504445816132 0.3532303657914768	-0.052039153001365 0.676067984874845	0.22929964352878926
49 -4.501144910662044	0.5296427565516817	-0.22235319520287872 -0.2959168602457438	0.8227668762158109 -0.07565358839848058	0.44331553601002116	-0.3472963250687193 -0.51473604554734	-0.17145218624465072	0.576062984824845	-0.1283752189509115 0.06877278653509906
50 -0.6942859478693609 51 -3.220085576145595	-0.10890747350237827 0.9758408362562143	0.4868729937136339 0.37314371087080545	1.2377385734696822 0.6655473331483565	-0.5836524686257639 -0.5293040606728601	0.04052065838808587	0.7649000161528795	0.03626538780741929 -0.40967254746083603	0.049533666600715454
52 2.4401540032886917	1.1054602625653447	-0.00894390867829282	-0.05986879339676349	-0.16540289574311534	-0.2908205668706993	0.5708053253594444	-0.15325366949721278	0.1946037636556289
53 4.14984101165614 54 1.2324502316046455	0.5010783780851551 0.1109907916121284	-0.1508363349011896 0.7569711686757611	0.1361052430821146 -0.34062073302669116	-0.21103318573679916 0.23003289940199284	-0.6017858538236904 -0.06079464067959748	-0.16234144978937193 -0.18276190765846528	-0.4091190306117244 0.20724031855875494	0.0883108315522471 -0.0706167354984612
55 0.9710830460276149 56 0.924376983242299	0.03848091222492196	2.1269045002080613	-0.2607184596142192 2.2317518741549858	1.0270251121428509 0.2151460874091696	0.6361623647724018	0.5552251809847525	0.0003934996389896644	-0.23247523931748956 0.23050033593295782
57 4.323065600682307	1.3711843977378007	-0.7871444105137811	-0.40832994723733484	-0.386024441385977	-0.5982942883063379	0.3830216560590202	0.0932134342223504	0.11378452810757371
58 -4.044003411201626 59 -4.617050162271447	0.6025015295840277 0.7345155846393001	0.27598647094485673 -0.4827681066080245	-0.04969323448120496 1.0046158526998696	0.3913197867652819	0.6962740432677981	-0.4556475698047255 -0.4477677429845268	-1.309837648489978 -0.1647501632385995	-0.3948515269820415 -0.3041470289634236
60 -0.019894335702291977	1.0704793371549093	-1.6486630882153155	-1.1655941939836407	-0.8389286861540949	0.8259194855322736	1.1099281995401238	-0.6833005790564616 -0.04303110427329863	0.0715319584203695
62 -2.7266451785970935	1.914116770648514	-0.8089576676373513	0.29590120710625756	0.1957694264182296	0.5114843952154041	0.2431499295408494	-0.09821296853464688	0.08536001129077501
63 -1.3930206029646335 64 0.7062995845756201	1.4661792316814624 1.470742577510858	0.3088508098562701 -0.0699787723727129	0.6725246935905 -0.9360992946425707	0.25865637552558524 -1.3388418581720734	0.40601286657366653 0.5273060768373296	-0.14028719279955953 0.1709941234061897	0.6231338623528024 -0.5012486892909501	0.17280388013833636 -0.05954470978320165
65 0.22506368346353417 66 2.9991193868901913	0.6867264026552281 0.6084254989224581	-0.4663757619107922 -1.170975607516815	0.1808558042786165	-0.7273079207160862 0.4926886948771477	-0.084176960577702 -0.06319072996706955	0.4644628863453778	-0.2855205493234293 -0.149210333054012	0.33823113565373364 -0.5964767823099592
67 -2.845175662588757	0.672419388706346	0.5749102629237546	-0.13017759841982873	-0.6490317132413274	0.08957648559936908	-0.333350710574678	0.09992080102745232	0.23434169834354646
68 -1.3588772816153436 69 -0.8521242791039298	2.1891535606106594 0.6658303058254851	0.5946782789224436	-1.253976264974927 0.06690033343035248	-1.0278633431340325 -0.5393508727805022	0.5468125467549445	-0.5182684957604663 -0.5280866782835059	-0.6071922919045795 -0.7049440971426175	0.3005918161192296
70 3.672284227768963 71 2.0618439508396578	1.5933276921511021	-0.5709495891216958 0.9615993372373253	0.286543576762803	0.2485030508549398	-0.04279953910321236 -0.046822890074329375	-0.43419047581357473 -0.3088107205166086	0.14990205730259168	-0.642883338775474 0.14683223663017053
72 2.561655550249964	1.3719189959527294	0.9615993372373253	0.6043271713316918	0.5087105132155212 -0.34545435411240427	0.046822890074329375	-0.3088107205166086 -0.2260791849686195	0.3963587764914267 0.05678477886989349	0.14683223663017053 -0.16815945326823975
73 2.8470351111452525 74 -3.3503518297324146	1.6751340770829288 2.059825950326624	0.9821764142494379	-0.6009185036958082 -0.9323318974098632	-0.07874355323035563 0.22703321860993744	-0.01835924544592652 -0.34670554104108264	0.37659639043521864	-0.0865664287480075 0.11899449686335668	-0.2030765819733221
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76 -0.35237289021705764 77 0.6087273775321834	0.6184502906300023 0.8640500444584868	1.3941907514463865 -0.299275149484247	0.3365514693024093	0.04033206301944991 -0.3620839372230412	-0.11228005620444653 0.3616133923455896	0.4263641528676235 -0.680261172537036	-0.14670130170353568 -1.1827843181519868	0.0640228837691101 -0.47928580825453404
78 1.921459634886263 79 -0.20223180403354513	1.3730510947063508 -1.9505329722864875	-0.04086679993919507 0.2801140909123952	0.2982913461950714	-0.25293535333513195 -0.8888245136250025	-0.3111367575910565 -0.4802411087141188	0.18979544420863195 0.06694154899833242	-0.45511456511282383 0.47141841180085586	-0.33913440719631666 0.27681317359522023
80 1.537637186163178	-1.6624750464734914	-0.37083689979402934	0.4713524071111499	0.31466925272889457	0.08540840848633415	-0.4612602675672918	0.7555918801826289	0.10066912860008875
81 1.0121518500405107 82 4.53110514620908	-0.4206915658105532 -0.6472774292412565	0.8984846666042432 -0.030369572403024087	-0.6366172880575441 -0.147293672295313	-0.3184618130067514 -0.8872771818153155	0.16530940256546672	0.159097240729748	0.1323654064219668 0.3151234046826678	-0.11295813226119453 -0.13599217311977493
83 0.09334138929385441	-0.5275860593520733	0.33705028874696025	0.8505779250285387	0.023983931769247607	0.13102262122434502	0.5754347020992717	0.1352079762696695	0.036840040976837664
84 1.3670228017334776 85 2.1635537742281867	-0.878712754756477 -0.5926128548527113	0.46083028352179073 0.3893765067594554	-0.26022803430377894 -0.48170763989644244	-0.30654186738907024	0.3956069665249342	-0.5604143458083243 -0.6324744111243356	-0.3985976273487288 -0.35730442710843	-0.3295792716186123
86 0.9600701624760731 87 0.6153145579930686	-1.2755734159026892 -1.106955993925216	-0.41286993550746126 -0.3673062205847615	0.5005984180732226	-0.0963905989933654 -0.3754482481821069	0.1465472965592542	0.22166418350005007	0.26299596983294643	0.18484143961040322
88 2.6267884133044963	-0.5295106874937707	-0.08793754499260234	-0.08921529095761971	0.41614461136088216	-0.17292466284048338	0.056048967376225604	0.27303629280117103	-0.16024029248386779
89 1.5400581018738304 90 -2.9635232806078182	-1.4227979912470716 -0.32848944604771196	-0.519499892191461 0.35023541617730175	0.75619139421114 -0.130925690963002	-0.036832356657178676 -0.6419721344663969	-0.6442164594950123 0.31497179694251126	0.2254837664579909 -0.13331087425813856	0.14815361775647812 0.4457588853917824	0.013984855063788977 -0.01273521774566866
91 -0.7065244797630056 92 0.02174499315255177	-1.2492494309204927 -1.455840865960663	1.5292978802014534 0.5943835932740789	-0.6165253039671814 0.5354117938243104	0.007905645640075126 0.6946918418497945	0.1539119233849623	-0.16409051061056362 -0.18311906474120881	-0.05197464549524887 -0.3237358570176002	0.032864281982194536
93 -1.07244458642962	-1.4105700988671248	-0.5836931003122271	0.5466591322768346	-0.3082120094425671	-0.3955500451952172	0.5798354011145724	0.2038742758737474	0.1341592191138516
94 -2.5009954960527105 95 -0.7464207602578177	-1.7416198572413515 -0.9850866677199773	-0.5998603754563558 1.4772839733425511	1.4785245258828343 -0.3145228757383475	-0.027740887929617312 -0.29062730916299995	-0.4702925178587045 -0.3468723717308734	0.35205153415223117	-0.17721569015364538 -0.5360884933885909	0.26401801227502253 -0.6289559231853064
96 -3.5536901465767134	-0.9172902784920633	-0.5588198925631719	-0.10852358451127263	-0.3490559349008497	-0.8512918439900008	-0.34845277012575504	0.7861446357750439	0.19665017481132177
97 1.2553692688064135 98 2.050458847830155	-1.0296348108614513 -1.4634674982590423	-0.5677671678698024 0.4803964614670534	0.43429647612257305 -0.40887202940634626	-0.2515659705258987 -0.47291314987062	0.5544187090742934 0.24996541027802668	-0.8472079011892393 -0.18867439174938017	0.13328600577024613 0.5344927967790488	0.10281184841976802
99 -0.10662864073260929	-1.1606056673635816 -0.5906846121510656	0.4009825618252355	-0.4510419232429425 -0.40482314898698313	-0.010917720195621466 0.3416356266959125	-0.08324649737962647 -0.06653602848169872	0.19733770483950885	0.11835820853171006	-0.25631508922442936 -0.7622301497315438
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102 2.350944491613404 103 2.299314997626451	-0.8828148191007444 -1.1263759895169483	-0.04464437189498148 -0.3300777988497634	0.2554340371035381	0.1460587358681678 0.03590455675870685	0.021710894587501153	0.19187652169068103 -0.18630055419414404	0.1815516893096154 -0.15550957523528955	-0.23222401005504684 1.111174893221814
104 2.8921408000804147	-1.0788187413943857	-0.7497730825164397	-0.0851919961210763	-0.8881915896426247				0.035542706581269526
					0.8735931967021524	-0.9209088649246258	0.13297346638465707	
105 -0.15833439883026582 106 -2.5620149605857256	-0.7567546106218831 -0.10917780291496687	-1.5409612852503793 1.2387330790731748	-0.9404504815486696 -1.06874707548185	0.201533269978959 -0.37955170093517254	-0.19018926626598284 0.3880713085794242	0.3940395038599421 -0.4037654787246523	-0.12026714887785352 0.507166045435561	-0.9470295794105005 0.3734394700057998
		-1.5409612852503793	-0.9404504815486696	0.201533269978959	-0.19018926626598284	0.3940395038599421	-0.12026714887785352	-0.9470295794105005
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100 SASSER SEGUESTION				ADDITIONATION	ACTIVITATION OF THE PROPERTY O	SHEETINGERING	ADDITIONAL PROPERTY	
100 100			ASSESSMENT ASS	CONTINUED CONT	4.000000000000000000000000000000000000	SHEET SHEE	ACCOUNTS	

	kokugo	shakai	sugaku	rika	ongaku	bijutu	taliku	gika	eigo
PC1	-0.3626391189565995	-0.36856960825191887	-0.3568951354768002	-0.367225579819627	-0.3543091189579648	-0.3126779679448185	-0.1392481969158168	-0.31672622837322256	-0.35694890611380176
PC2	-0.14942200205503736	0.14702928967771298	0.1814365474639136	0.2506855213942928	-0.00950799725071303	-0.31216760772283914	-0.8592980400406439	0.1489575990412447	0.046610048631527054
PC3	0.07362261056560734	-0.061551390581992584	-0.3996804733616931	0.008250638031988618	-0.19960612821677748	0.2637825329495805	-0.08026368242029265	0.7838688233150789	-0.317273008187499
PC4	-0.23644316013489286	-0.10652413439730415	0.029475735640536602	0.05664423227584834	0.3568797362380253	0.7122689043434813	-0.284247992730732	-0.2933574837695164	-0.3548116334650321
PC5	-0.3014675299917653	-0.08665120734584245	-0.06112358927961063	0.26238052526329947	0.6423917837871539	-0.44012474550741837	0.2685657885768178	0.18981367083069028	-0.3383717711467408
PC6	-0.49406321299654465	-0.5727449938412557	0.40814954445555507	0.038857744816453516	-0.13194764471067313	0.13630896353196978	0.10563445427809397	0.28664885542403357	0.3608877262845927
PC7	0.6199914199433567	-0.516987227422788	0.4088977952613481	-0.1765060912820286	0.11943729613405532	-0.12478363036473347	-0.12755625754832922	0.041500307522159496	-0.31961530340407884
PCS	-0.10970274292372521	0.23494293595523813	0.4461832070550193	0.39246526474255106	-0.4951329021782256	-0.0015998451034219812	0.23485006189970128	-0.06182991624839271	-0.5249019397097295
PC9	0.23116032371278944	-0.4115624263461638	-0.37748422047285574	0.736380178648958	-0.1329272368753425	0.0034953122967084312	-0.007348326597337956	-0.2307491592217507	0.1464586284631066

また、名生後と各科目を第一・第二主成分でプロットしたものをそれぞれ間1、図2に示す。

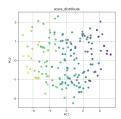
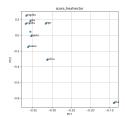


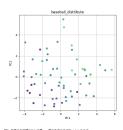
図1:各生徒の成績について第一・第二主成分でプロットしたもの

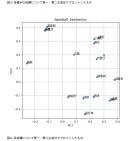


Part	表3:主成分得点のすべての	F-9																
			953	nc.	nce.	800	957	***	909	ncan.	ncu.	8013	2013	ncu.	201	DC14	ncer.	0018
							PC7											
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Part																		
Part	6 7 117147037921853	5 -2 6709048841970247	0.12051315434136604	0.24469927172602632	-0.9867147408302218	.0.9357373412379123	1 19017779920154927	-0.43050309632289774	A 24588605815835546	.0.7962699040971542	-0 3470399688719431	0.0415334433887303	0.07249231404992318	.0.07123214432204783	0.07405939173613648	A07799783290035826	-0.02700673935111253	-0.0503777776979456785
	8 1262918878693843	4 2 5783818401261502	-0.007303498705985718	2 6930769363486284	-1 3827171872890864	-0.24725161491955136	-0.6013386520803298	-0.4133633543987335	1.7767241467298516	.0.8254283900443702	-0.7412018477905813	0.5492905048234078	0.2304731633530388	-0.26T7971292502061	.0 13363208119864622	.0.74799160141554191	-0.03894980134901713	0.07853879285347949
Control Cont			-1.3841589456003127	1.0788855607974736			-1.1649039005772026			0.2606321912268576		0.688061649966251			-0.26966290163743123	-0.34307442640081576	0.026674184723993168	-0.0663215653605672
Control Cont	10 -0.97893414574937	9 -1.254994467504888	-0.8354317987522342	2.0679247377675587	0.39943192650789067	-0.08901535018533467	0.28931502486400323	-0.10209113487457738	0.5921472927871271	-0.40663101230727794	0.5681673157452992	-0.33708697072582267	-0.8777039242292093	-0.2560664420302969	0.3475359579043877	0.0727301645018446	-0.03591128914563484	-0.018791398043045787
	11 -3.08853395207057	1.6709896403258022	-0.02208254990516718	0.4586882166169324	-0.020389601216001328	0.944200776014023	2.779726898720435	-0.3139961864751781	1.69095850043128	-0.747196838937051	0.4449197656071535	-0.8480089018446505	0.9456308059271331	1.1614872201983863	0.11052544008256623	0.12236567446583503	-0.0028070874429528274	-0.002597517137636229
Teal	12 0.353690262277213	6 -1.0636246368680007	1.7382165244703778	-0.35073903702710435	1.5642679000865267	-1.4135893369260488	-1.209061750628333	-0.37700774604222675	-0.6009193509615698	0.3863221734554242	0.30000747982071324	0.021400295647200284	0.4371019032107819	0.4499033594151435	-0.12732462686572968	0.29979608106672906	-0.09171868310185013	0.02515181216467715
	13 -4.07925747937977	0.046711716672069685	-0.15740636307569722	0.005938936983535744	-0.38353314875630395	0.7995546667820636	0.2855746255269516	-0.5773841610981143	-1.309880335757337	-0.6654714750190799	-0.22294042128897834	0.23339189394349147	0.08240394851828631	-0.42621293731811066	-0.06658289957058791	0.1515918490660532	0.10708232996753243	0.03725207919699406
Part	14 -0.44924170324796	125 -2.060963380190229	3.3769143872899217	-2.2380768478297752	-0.04161635096355537	-0.7291723647172738	-0.18810425301368072	0.07503453372805537	0.8785150369085789	-1.2470980450566216	0.07423550446482412	-0.20193399633137255	0.25015039200401823	-0.41297561382619913	-0.12722415688505667	-0.07824681353642161	0.0015350946525987607	0.0858062065866335
	15 2.694846002713904	0.6404853785291041	-1.737176664710992	-0.3642873719599286	-0.4734889178327777	-0.5095537761790699	-1.0125200146653826	0.1341791124630481	0.20080044272066672	0.37582071521069	0.2358779651353673	-0.2109913905395251	0.18509748748618182	-0.36934613324216037	0.5272334983685791	0.1824959146698376	0.00784756119188433	-0.006183038240379085
Part	16 3.347481380982906	3 0.20761495099664057	-2.0292299315989952	-0.35750245356466787	2.5270400071778942	1.301898793332953	0.360369958240404	-1.1787828588865692	-0.7775222118465895	-0.3185670263428405	0.35843359694408766	0.41864478677718475	-0.16928031161287285	0.6665915557221905	-0.1898641604962011	-0.23417574935427504	-0.05049198142239921	0.0470925323308207
	17 -2.27799709936930	7 -1.7274051035375613	0.1972225784096321	0.15277930203809684	0.8749703870698452	-0.2037651034660558	-0.6640302923760806	-0.2662321109641394	-0.1831899416556183	-0.8156879595113726	-0.5214012953236149	-0.7218582256883064	-0.5767973924335814	0.12541472640810378	0.42178585995448137	-8.011614171191688e-05	0.029707577969673587	0.025466062684752218
	18 1.260159293410599	6 0.6131492005135455	-1.5143731213820193	0.35655693990536524	0.6857685344399442	-0.5246538574361759	-0.28518943875300057	-0.5729577078289273	-0.6503769257653571	-0.4748339847015106	0.08151310524219364	0.6530235478915404	0.4358958566561856	0.43085646975822267	0.12424075335461005	-0.38540476801433504	-0.03434418549790983	0.017941781492375374
	19 0.360160499895646	1 -0.8398152909782931	0.6445138849122282	-0.5896319905675372	2.181594955160442	-0.4558224034962143	-0.5473630515206768	0.006611497533499348	0.4145862452063487	-0.1674298313506812	-0.04418697058065447	0.18633091703870067	-0.41853489399418375	-0.14220259245451952	-0.09633497143079282	0.4026197269254931	0.011416982447430722	-0.029341404234780013
1.000000000000000000000000000000000000	20 -0.33683086960073	2 3.3370301419544206	3.092824203546264	-1.2487680926405738	-0.8796083457764057	0.8780683831947979	-0.20115557634516484	0.3407378996406634	-0.9263368249682826	-0.43713972970216214	1.3768323824202424	-0.45467675182351647	0.9834346318521552	-0.17761502662081707	0.521159208525801	-0.24723878441151423	-0.025969787414259354	-0.014623903237454222
Properties Pro	21 0.577450505175808	-1.9348245306309737	-0.685938464685807	-0.005412644544844779	-1.3860141873801959	-1.500111440259381	0.3807395762796577	0.13154765200278315	-0.3703649381189984	-0.4447072472697955	0.1458882891600473	0.018776061180526712	-0.11719303830730629	0.3217884056627721	-0.5810050758615832	0.13341024853004033	-0.010095571458753533	-0.019438939795629637
2. 1. 1. 1. 1. 1. 1. 1.	22 -1.51601732213805	8 2.7098572414242175	-0.7251169800286188	-0.7624784045708837	1.4111143534685298	-0.16734208209321705	1.675496962851141	1.2838557250224363	-0.5398798035561865	-0.2902963273016293	-0.5828833123153045	0.06048604864568782	-0.2799895388408935	-0.7262321371543788	0.7420763388641195	0.1439449190375325	-0.11365314456293932	0.02030939714160621
1. 1. 1. 1. 1. 1. 1. 1.	23 -1.42861609584807	2.1592668644589166	-0.7906078324434012	0.009849682487596953	-2.363847526868148	2.546484723391919	0.27601336148828376	-0.6688767112566458	-0.5847222106422354	0.8524723125739158	0.6235548693900704	0.021496437550258093	-0.4361836617186865	-0.20132712481233692	-0.5123847343384833	0.06279286751946538	-0.03496808573851281	0.010784368191514347
	24 2.213590838716699	-0.6759267910337495	-2.4635889717888255	-0.685892664289892	-0.1540814552256551	-0.41276585509454544	-0.1705188882874471	-0.028240376726138793	0.6467741785150506	-0.23408605487670203	-0.5579457579415547	-0.2621521002551868	0.06970278818636053	0.031025640678117954	0.21330087109772577	-0.053299965936601676	-0.024100700047092555	-0.019034699519709423
1.00 1.00	25 -2.02381242506811	1.4970690219805165	-1.7098438542661676	-0.7931888154483241	-0.3985159743226101	-0.5967473210343243	0.7843500177871637	-1.113656362030581	-0.3753949502640254	-0.31132677924683205	1.0088971129722475	0.4281207597480377	-0.6028095485406445	-0.6199120906795025	-0.5968786350147943	-0.17014077842959574	0.009881851731382053	0.042799823264857054
	26 4.05580223967029	0.5123026943627123	0.423777147493555	0.6175554703444331	1.2414863160710095	0.20984517448008988	-0.4699083134122198	-1.3054304736334734	-0.3304021424729532	0.5073315220163609	0.3965147814835814	-0.500813717883435	-0.8488264680120533	-0.5801523657752102	-0.09942976051806032	-0.2000397372446655	0.0447737895581093	-0.04517426271682003
1. 1. 1. 1. 1. 1. 1. 1.	27 3.200658639232137	7 -0.6288689432077698	1.0574462982598838	1.3660653334141677	-0.9212035601802758	-1.4102209872218678	-0.21995255188452018	-1.429488951604522	-1.1693635124379407	-0.1150746404408504	-0.5720645656758298	-0.6930696467378145	0.052694068450096644	0.13090097968802575	0.08627511614083186	-0.07470266820641604	0.028755225401036623	0.02581782597584531
1.1 1.1	28 -0.82743390941031	4 0.7512580581106624	-0.43537961450741947	-0.5197873997931834	-1.3222549102524264	0.5715959228037141	-0.5900437059701901	0.4395065038094744	0.15056917598401458	-1.0394955818672873	-0.3401522729056184	1.7859186445604074	0.008619841492095572	-0.07009841049473316	0.34894384250966703	0.06853258479581155	-0.010073551195298418	-0.02815540446806221
1. 1. 1. 1. 1. 1. 1. 1.	29 3.678622655918762	3 -1.843946633481991	0.7964511768094353	0.2993074238871886	-2.026781513826527	-0.16904110094224548	1.159597349693802	-0.9178922527382557	-0.5993030537746455	-0.24601221991777178	-0.3440843330749356	-0.19588634296685445	-0.2942509262237715	0.10307799252257853	0.13124969355248345	0.0774335356375677	0.05871195010018593	-0.11921497131691816
	30 2.846799817992925	7 0.07870042022835097	0.10720722010499788	2.007695025584653	-1.5696990425271895	0.41927758269019605	-0.7090330055994037	1.1884224431993764	-0.12740106368736526	0.06247886513917816	1.23336777556437	0.5283817214297465	-0.9411524468076717	0.47064072636332466	0.4267435127159445	0.01425151222248093	0.03599673414659372	0.02066131806667495
	31 3.310096100819572	0.22057849385224046	0.7986096888223523	-0.8999518014309588	-0.9997819110459683	1.3020741349085232	0.41543575242448166	-0.8605148457138782	-0.8414835831009859	0.4759168760731767	-0.23321042525694163	0.5280708082613202	0.6943760153176227	-0.24955397860403378	-0.08950382123690453	0.19201439094921863	0.009103846724812353	-0.041890257415658244
1.1 1.1	32 4.951631391718596	0.6262627622178724	3.124602551530166	0.7968886258855731	0.4547374039186899	-0.025447366161642566	0.5591798381613752	0.16801396416616965	0.12471537308404788	1.2513286433816366	-0.9419645828946586	0.28924894830200504	-0.10964623365072808	0.3498267324741569	0.5869589068782354	-0.18211454238719219	0.16262343667775497	0.05895689411928635
	33 -1.51372948535080	1.6093782979258642	1.046270899570373	-0.5089724136328716	0.32456589492103466	-1.4482351824339668	0.03677161675943049	0.10235846158898636	-0.7869192793488048	-0.14586766394029435	0.05559154915731072	-0.03176514622219872	0.08324756414897176	0.050434512881344463	-0.7251184030170185	-0.06585900871647286	0.040211315174457016	0.022704952688193576
1 1 1 1 1 1 1 1 1 1	34 4.375648936559402	1.1349458998882038	1.2592467949297723	-1.375460236882727	0.8374498812540339	0.5986706251844361	0.1554794087069383	0.08095620396273231	1.294845576867041	-0.3311169550433577	1.0416935269767696	-0.9264750398813671	-0.1564125019185295	-0.9964621168513814	0.04144944936279747	-0.13973157607384587	0.07531037124055279	-0.07679740347535054
1.	35 1.616260692684616	6 0.23578948168396707	-0.40770331904464197	0.26723817559129087	-1.0067046447316654	-2.068454442467719	0.059231087883004824	0.047668563168256295	0.4519305929822024	-0.8100184499694414	0.533759265114342	-0.2968877754959248	-0.400038042227835	0.13547616722799538	-0.0165836639940024	0.21942735283665118	0.024695896626918658	-0.09509398268427455
1	36 -1.75106926368781	11 -2.7102759108629226	-1.6189184544813553	1.6260770228118535	0.3877121667766004	-0.29169349334379996	-0.11452275182367377	0.4905585301838137	-0.6402973091879766	-1.061545707610044	-0.37760580223185014	-0.3380793334300292	0.5442303722093269	0.15276526304141477	-0.20078716521354284	-0.058606348074378735	0.004779811066696984	-0.09120899689560726
	37 1.237920813734592	3.002542178210219	-0.641869041231353	-1.7866068225731027	0.45321249568035527	-0.6429966051396615	-1.1962283632918496	0.3830854232855673	0.9335501052265949	1.5030440565880687	-0.810411533814746	0.04276462285695795	0.02899114270046181	0.03317576838287704	-0.419144917903801	-0.013082880896845532	0.04320486916591412	-0.027024770051610792
C. C. C. C. C. C. C. C.	39 1.806118386915070	8 1.663525631962301	-0.748457695650857	0.5761210178532085	2.0295712214605968	0.6192602351059134	-1.3355307734713122	0.1983391970818008	0.13761154361974123	-0.5645158503573182	0.6029230120841241	-0.09851302394577152	0.27658218955041164	-0.270296230659776	-0.18954927709643973	0.23771992490265206	0.05831393993134521	0.024557566179013
1.																		
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5. 1.559600173177737																		
	56 2.659628752177755	7 0.7114080365063512	-1.0393100780075257	1.3862050853008658	0.5023088378026374	-0.39319949277323685	-0.6381660291564875	1.3436949266877185	0.3846994493427352	-0.49943894753059404	1.5436643073466925	0.6450702571474604	0.2193992588202573	0.1275214187659671	0.09736731900637771	-0.032583131652672896	-0.0028767448514863043	0.006045655032270562

PC1	PC2	PC3	PC4	PCS	PC6	PC7	PCS	PC9	PC10	PC11	PC12	PC13	PC14	PC15	PC16	PC17	PC18
57 -0.3804588292441381	5 0.7838023643470144	-1.8314491552242695	0.9938195398614396	-1.0517359486985705	-0.052128038523576	0.060212414306752025	-1.1965153953590377	0.09817242830318015	0.49987577311517856	0.15497326036073286	-0.6824433130347557	-0.26745744190159887	-0.549609487583013	0.34964273441749627	0.3384077853711298	-0.08745223468398121	0.07685649849262247
58 5.658018799215341	0.6731101154854527	1.3185637803940753	0.4276429510733033	2.2968790967797745	0.908165836581661	1.8400815287819525	-0.610645400030775	0.36325397882326965	-0.6247635824506591	-0.46272752073061174	0.5666982002933939	-0.3312725773776749	0.1494360764035761	-0.6482314923876114	0.2511220603896407	0.0009142471238595864	0.04171705826669746
59 -0.2053051661074524	2 -0.845272492974373	-1.2457379469965493	-0.3253676778827586	-0.29545965596269264	1.7892291253581962	-1.9853798918719503	0.19215555764823528	0.09722639030689545	-0.6064206256568461	-0.8225988636614564	-0.9898363109141285	-0.4671571388677916	0.28096946828644587	0.10831162420621648	-0.3309574271220059	0.018777241323792163	0.06272403924840825
60 -0.6951609099569394	-2.5761807191329344	-1.966420411539551	-0.4726899468863354	0.022026711370106394	-0.2505343301030985	0.29623136581497755	1.7690956328137133	1.0073384640428893	0.8166137370669119	-0.37573599345445413	-0.15873382060782357	0.5773280091128515	-0.28191166317445093	-0.4096635634433021	0.018166031043193098	0.006883557361525565	0.013679998823732614

	π*	標成	東打	二聲打	三叠打	本聲打	打点	82	直登制	48 37	糖用	四球	20.00	死球	=16	供税打	長打車	血量率
PC1	0.2290094994030189	0.26451889764093023	0.23050615883076048	0.24781051530334097	-0.12733425027865902	0.34058416138142744	0.35868049059244306	-0.11142918805351212	-0.12667707162266834	-0.2590560831064702	0.15169131401859975	0.2523089934584911	0.2249989466591736	0.08508891877584043	0.04123845896094554	0.1632857735700113	0.37865160309473134	0.3005491009632734
PC2	0.2836507322581669	0.32371001278758493	0.31626444001620696	0.1694373266935681	0.3804406726981369	-0.13701295177576972	-0.12989724235415961	0.40713251077068885	0.38004187038958437	0.13712077843552034	-0.12059113972692306	0.03549524011615048	-0.10931469677795236	0.20136823842283322	-0.11124541160395707	-0.2375436493626929	0.015643575742132536	0.19813658386774588
PC3	-0.3309834859426219	0.12240071249150969	-0.2752997675831358	-0.10499218036191088	-0.028576823568694117	0.27868811655811426	0.12192979772994003	0.22939594026941665	0.25157557093454774	0.009312483232183736	-0.1995543687852273	0.17716324015282348	0.08344377715406101	0.07952090333132236	0.6161138192177549	-0.30768616567953716	0.1338795150252349	-0.05117300234198296
PC4	-0.1954679392908982	-0.0003214331299882248	-0.18663636727881575	-0.1425096775668009	-0.03333908476896617	-0.12105645839719913	0.026578553501047257	0.036679090660545186	0.09548611007808949	0.2520452804233433	0.5426954727794323	0.5914228980865621	-0.09614941812661877	0.10373066192258466	-0.1331929675479573	0.026609304477451738	-0.20279571589461848	0.3038239254024626
PCS	0.21312029423031695	-0.12093150958630734	-0.15222245831258782	-0.08704320118563522	-0.2878557382791266	-0.09015957596321679	-0.24828683346985667	0.0027552674856004397	0.013107487807696723	-0.09539303761459006	-0.2947504993134476	0.21699729692025294	0.3220160275306537	-0.4191908999432231	-0.20120774892299617	-0.4011070837089216	0.0495833077488319	0.3606672798051185
PC6	-0.024307429690251927	-0.12550836076751654	-0.16701713144364552	-0.12315933925618379	0.045030667064553685	-0.05232886738224907	-0.08096175093008666	-0.06968633453887506	-0.1843507278130855	0.07798612837744366	0.3497203956421949	0.034504872315436766	0.3716606731941699	0.7545225616636725	-0.14291559757209324	0.10511898877774441	-0.024310326878628188	0.1461266958358584
PC7	0.08506567553039394	-0.0917230881034696	0.18026566115427892	-0.4510511671888482	0.20781529618387432	0.08155823297591636	0.12110349820116052	0.33754504209009106	0.058808304531605515	0.1335972686943035	0.25200040429244314	-0.12924547076408538	0.6237924107043141	-0.19050900151607741	-0.0054169685189847765	0.15820845546726256	-0.014182647100370841	-0.13334124062404437
PCS	-0.24143455013531676	-0.20015429954245806	-0.01373623996519125	0.39315089639174133	0.24596036763499696	-0.2483498361753756	-0.10985757585926148	0.20282614976892357	0.09378455781967726	-0.5749838141814408	-0.03392230433724791	0.23392249634392873	0.22803899479540063	-0.08094416951571266	0.0834429411788745	0.2587372684376228	-0.20586832178789727	-0.03734209606042829
PC9	-0.06350372046960594	-0.009585759201064078	0.09395723179604482	0.6030581617325625	-0.30230733898706463	-0.12603320750461788	-0.046642119872652925	0.1183260836017971	-0.1389508836539981	0.5804919769206139	0.027079508412526494	-0.01888802461527367	0.307539987954333	-0.05426344511394342	0.16560047913863626	0.01969719850457354	-0.07568386623980036	-0.10716522140742175
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PC1	0.06768170787062565	0.046697569123603656	-0.16899363324702715	0.036093300406058126	0.6545581541159812	-0.0776887380627775	-0.002951169787299564	-0.12243008749933756	-0.567228549529231	0.1857041099221909	-0.05254976627183646	0.11859055010027879	-0.02084050352139992	-0.22496165334356033	0.22617317759687636	-0.08535101506851989	0.10198411372867625	0.14476125955636623
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PC1	0.0009589697816005634	-0.36266762414519793	-0.3012902877364954	0.1322423104640686	-0.021984088058013503	0.16078567021691836	0.2840987363755336	0.6002520219890685	-0.13976916380643684	0.06618652029377627	-0.09335650159100277	-0.05266025365163816	-0.2597510448228188	-0.03919748473254012	-0.31233152176978185	0.10678461638490708	0.27376022210231044	0.06743322929393807
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PC1	0.536932586802921	-0.018329644311309196	-0.24065446663516157	0.11246298245491046	0.052765078732107756	0.4541157741327682	-0.04704278287192354	0.010760085222803332	-0.0017775598852050741	-0.0066267240795369374	-0.02775447738480471	0.2731376231380722	-0.006366545302129446	0.03558762932849675	-0.01662291262145084	-0.005806226705656125	-0.4658134007042021	-0.36803548541166786
PC1	0.21316267384676724	0.021464059318456376	-0.017167644175621527	-0.11409417691341925	-0.07726140692303908	-0.44477424971967516	0.0195753095629407	0.0016779079844142439	-0.001120653593970297	-0.0002713413030604086	-0.03303421583168722	0.4145965474592204	-0.017635872307422272	0.06207621460731476	-0.010029525926281	0.0024656536968166096	0.4832563564106674	-0.5707967018696906





部本名通常について書一・第二点前でプロットにたもの 信頼と直向から開発を見ると、世界、世界、日本、「内心之、見が姿を直接が書一点前の音音が大きく、本部、二部でなど、パラーが必要が信頼が第二点前の音音が大きくなっている。 せのことから、影響等その信頼と為の多葉の音一直的出足の語さ、第二直的出バラーだと考える。

せっことか、影響等の影響をある影響の第一直的は日の音。 東二 ガヤモンの簡単値の分析 ガヤンのサータに、名音的なして、edition、clearington 原知可及して、generalism, pandem, pandem, pandem おの方の数で大手を呼び表して、generalism, pandem, pand

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The Marchael Input Excessions

(I __man = __man __man
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### piper ris sythed planes, sealize y

### spiner ris sythet y

###
3 - 6-0704 - 2-0727 - 4-0704 - 4-0044 - 4-0024 - 4-0024 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 - 4-0704 -
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	PC1	PC2	PC3	PC4	PCS	PCS	PC7	PCS	PC9	PC10
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1	0.319957980123603	-0.32183248434739836	-0.16904101372201222	-0.21247248767611518	0.49957072034221955	-0.44444883329874696	0.08298465138052682	-0.5158829343769425	-0.5863169631419943	-0.37643299470347796
2	3.0268077249880494	-1.0827529301161332	0.4467905529450297	-0.6568579593723253	-0.042489975187763464	-1.21663905713017	-0.0016573754263114243	0.08461523531135369	0.5071713093612437	0.13033021678953885
3	-0.9670835829623665	0.17673224387373762	-0.7897129165465488	-0.28277985524153637	0.1624433132196765	0.014990267791405179	0.3761124556716845	-1.0775906149337589	-0.886046030477352	-0.3695262061856847
4	0.20334301091191817	-0.24566427537143962	-0.9126333883742564	-0.2124638115491501	0.1714645424853124	-0.1742716924598937	0.21445229246072575	-0.6054845565082906	-0.5223582141475349	-0.04452031024557406
5	3.0992795591381808	-1.2868039151844024	-1.342694119162328	-0.7383226657274313	0.4479686726252849	-1.2943076720012185	-0.7318779735415919	-0.11013963244486998	0.8547556602787105	-0.3846995000168284
6	-0.8010004362013703	0.14148774366993352	0.42581491263024174	-0.23296472454423317	0.2966381941890008	-0.20739468767357927	0.48332922485143986	-0.9191073772366749	-1.036771475618425	-0.34371435592114497
7	0.3050808282634826	-0.22530714212154532	0.35595995231072036	-0.22572716785348296	0.1744146006250458	-0.35625337224868153	0.4472555101463624	-0.438565024267534	-0.6802249522298643	-0.1524662997036225
8	3.091436483917569	-1.0932402728302488	0.263505756502609	-0.6624675372964824	-0.008606129493166631	-1.297034332643591	-0.3419512814654106	-0.1786515163946109	0.6881409304457975	0.13087924630526854
9	-3.851484317117969	0.42336533783490493	-0.09453558920151918	0.28223156227531065	-0.1175991180848696	0.18745280386953134	-0.07234854005580316	0.3146130179848259	0.013194835446988813	0.4602718268491658
10	-2.8343736898502576	0.18188296412728774	0.561643639286322	0.2590906655345851	0.16871686598913277	0.2029151883288365	0.005310466049100614	-0.7084623516430596	-1.2468883276015015	0.5895326112450442
11	-0.018266539648731546	-0.930436324405637	-0.7561838782857427	-0.5565333812248682	0.7206346964194591	-0.6214789160920688	-0.20379974977473392	-0.37408186835904483	-0.9149734265869376	-0.20084061625714789
12	-3.87131857211531	0.4533949640609294	-0.12529594267026835	0.17873800508369703	-0.25151278863432003	0.2283585711198855	-0.006818573934171684	0.2981895891685872	0.08247282948077524	0.27702622746957906
13	-2.8542079448475994	0.21191259035331222	0.33088328581757265	0.15559710834297158	0.03490319543968226	0.2438209555791907	0.07084043217073209	-0.7248857804592983	-1.177610333567715	0.40628701186545746

	PCI	PC2	PCI	PC4	PCS	PCS	PC7	PCS	PC9	PC10
				0.09519533240031988 0.09075839794390604 0.3006751401493856						
	20 -3.0935213971904694		-0.8376343332934755	-0.006708382021740206	0.690177726762677		0.05525855007949271	0.5836512703656555	0.5272794178828324	-0.03923762163702945
	22 -2.525819461531473		-0.057313762048111776	-0.38788212306285363	-0.12198134201318662		0.22909881779443772	0.5084141923609982	0.9095753471861063	-0.37883636397098674
	24 -2.167082958654367	-0.43707320271763106	-1.2807666642907765	-0.6604232514395655	-0.7966715751730322	-0.40057352964643805	0.2730116764184784	0.4435682793972647	-0.05291349652217421	-0.002193568662644362
1.	27 0.440884526812151	-0.07540840462479975	1.359929958956913	0.27475371891644496	-1.4081765042926407	0.7214540372245304	0.8531246835823734	0.3076276096692275	-0.17630790620105657	0.5753447705005584
	29 -0.6842215101912728	0.0698140576440753	0.12332365541970557	0.44115044799910047	0.057509496777729714	0.03785880050658768	0.03326416900875182	-0.05005903962139015	-0.21371736064095165	0.2781245419040818
1968	31 -2.5435421913304648	0.6209501203426796	-0.17996463564110982	0.2639044930861576	-0.06523231312901989	-0.015125730219967395	0.000446749943568631	0.2520104149084668	0.6019695294661636	-0.12895840809228698
1.	34 -2.461894456240474	-4.829305602805544	0.6616175865018714	1.8645328767474156	0.8009364028545357	0.11108843640825435	1.2420653600365745	-1.4584527828225184	1.2130477383971707	-0.5804861539737055
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1.00	38 -2.476448866508303		0.3096266765012124	1.4780312957378472	0.6640819385101564	1.3581068878929505	-2.173471898684776		-0.901978552799906	0.5211452290634104
	41 0.3397789360230924	-0.8087911310448106	-0.5896558982465874	-0.05798727571026895	-0.503453293214972	0.03285039141154781	0.19577615528264244	0.5380609167171582	-0.34410812036772503	0.14958847103708542
	43 -0.20099171994965898	-0.14195959194881735	0.4407747208056989	-0.07460440845579347	0.4853458779341992	-0.7181921489094745	-0.4372569182370593	-0.3705360084511504	0.1865042745080653	-0.2589660296324931
	45 -2.0415968824206745	0.4191287423117334	0.8330110903866549	-0.23132875257682153	-0.14553766811624969	-0.058455842168973766	-0.19217023217023282	-0.29885662025562176	0.4761117441592402	-0.7540642088709125
	48 0.5264071085713494				0.3928004445989248			-0.017228736674613512		0.1775480256759629
1.00	50 0.23484630285393912	-0.1627361342909414	-1.2596573670791473	-0.8825658142235252	-1.2022639609368462	0.5613388956823765	1.2130065769984626	-0.20180547833036816	-0.22585046889993923	-0.6922817497692823
1.00	52 0.17096330937856588		-1.6151721530424694	-0.48441513695552674	0.010900321447294347	0.15596533067824717	0.6422649164691969	0.23258917335237247	-0.1473078508839999	0.6071357137431844
	54 1.1720870367985092 55 -1.9831446214083626	0.389934222354642	-0.6684884572949201	-0.09597980106447467	-0.6347094133311815	0.580492300515843	0.31325732500513725	0.2384843428963123	0.46100637267801636	-0.599415009851235
1.	57 -1.1812500410405236	0.8061572185294603	-0.7497613002494499	0.8060061879559025	-0.0842783247987712	-0.9779842067102016	-0.08912081265786964	-0.03625018335059303	0.6052976530079736	-0.2232894181527822
	59 -2.507792194762501		-1.2069374257771364	-0.19936363727186515	-0.2828053459770297	-0.047316540389142375	0.6854496134669783	0.6730087334803636	0.8116384259521988	0.3643150859283275
	61 1.5968541882093052 62 -1.5801590756436294	0.008797491131557266	0.4573609073469812 -2.30586191492292	0.4052427248938814 -1.1226183129452278	-0.2811797358939622 1.2111347803604497	-1.1678459683884723	0.20556456674245713	0.3056112974367299 -0.3679854155163925	-0.3243531899938801 0.6899754016804994	0.030580565185866767
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	66 0.06397945217902547	0.06528868589196173	0.5791038440976103	0.9240843596807309	-0.5556473258696203	0.4793442439564733	-0.2709108038401202	-0.02770832788502429	-0.17426277311908003	-0.38386696955709254
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15 24/00/2006/2013 24/00/2013/2013 24/00/2013/2013 24/00/2013/2013 24/00/2013/2013 24/00/2013/2013 24/00/2013/2013 24/00/2013/2013 24/00/2013/2013 24/00/2013/2013 24/00/2013/2013 24/00/2013/2013 24/00/2013/2013 24/00/2013/2013 24/00/2013/2013 24/00/2013/2013 24/00/2013/2013 24/00/2013/2013/2013/2013/2013/2013/2013/2	155 -3.440640352612882	0.31788378751427054	0.5835080559546068	-0.04025905579857809	0.07808588295923014	-0.3334047893780386	-0.46904862279782955	0.18985544978968966	0.3446545966983057	-0.5920195522023837
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	Acres (283086								

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717 0.22036707701429425 718 5.977837107246861	-1.331111229459258 9.312557500499999	3.6840110113713207 0.7973836227100514	-1.4117885501422873 -1.1870474288354864	0.15834597041833876 5.8066795257700425	-0.2558149296755939 4.155631450235054	0.5947012338551393	0.3935429922181656 -0.4854922944239194	-1.0467945995260506 2.526617667323457	-0.6589837392915462 0.2633861484593259
719 6.271947561205805	9.178400753141657	-0.1252642514328524 -2.1047942660841303	-1.4386736596822232	5.536292200078715	4.275302390848638	1.7895056888271863	-0.1320473490360316	2.597385678394097	0.6511238357170208
720 1.4458001149893436 721 1.4064622470473445	-0.12570023131762945 0.20823268088194521	-0.21466259468747131	-0.33552857800432256 0.6523167200621632	-0.4368573034503152 -0.5682229360835634	0.36813754947844185 -0.8304601954689658	0.39297151059690116	-0.686935712140609 -0.08779939404825159	0.3135451546493538 -0.13943275446953915	0.04417605364428251 -1.3749788055531222
722 1.1542579884625102 723 -0.6456558181009635	-0.49309551128527823 -0.751596244666697	1.8279107289568306 -0.6086060554259947	-0.6884226864274795 -0.04140217283548099	-0.22051526269462202 -1.5073634240458325	-0.812694775718825 0.013300935263324435	-0.13754134786303876 0.3518999133513087	-0.8324822429642063 1.429235968422538	0.23191673997760626	0.5391275075968258 -0.21407864697632253
724 1.0366150151326499 725 0.6264931947984376	-0.593673400035091 -0.7123173971894714	-0.17753790805197164 -0.7444648205696875	-0.8086568134130526 -0.09461667365539654	-0.516877375471751 -1.1047395097599508	0.10183448158448231 0.20707627482897245	1.3299721954215613 0.028912199015093787	0.5255414110158539 0.23892724106905192	-0.454383599225977 -0.049689186301692057	-0.6823992131954565 -0.20456398276327456
726 1.249617845351739	-0.9459332503314908	0.5129237702206907	-0.374794550814583	1.2946612823151067	-1.149300377347048	-1.3136369537524737	-0.7594956224091505	0.24712167523700768	0.13107135989976482
727 2.0197541566133395 728 -0.3148993465830914	-0.22085865007217492 2.121672218531772	1.206726020368299 0.19933731751232428	-0.013346447170884729 0.6718220987722974	-0.545239452434994 1.0157474367492392	0.3129452388529998 0.40361981721734486	-0.3702699838687846 1.3720455782950853	-0.7301165955956599 -1.6462945167077532	0.4176332247628212 -0.10651580563620201	-0.9539930178240875 -0.18255424756855168
729 1.1374310326046324 730 3.3614101185063894	1.6708560251112587 0.5995381888060144	0.2115042725463835	0.36960119841840117	0.7495321803397818 0.41138674898228655	0.04113969070255988	1.506379945872845 1.3387458667154462	-1.1286509561373814 -0.45463781373734297	0.4338081103608988 1.3090566738773144	-0.026918762725642215 0.10411070417431158
表を個有ベクトルのすべてのデー									

	attack	base_egg_steps	base_happiness	capture_rate	defense	experience_growth	hp	sp_attack	sp_defense	speed
PC1	0.3821026840048738	0.2354637620531494	-0.132575071636371	-0.45868049779501957	0.3385414506682886	0.11128151831469488	0.3304402482396618	0.36840979959575115	0.38383935354879595	0.2265994911568248
PC2	0.06242460635282773	0.49272467100240985	-0.6310748821367422	0.08743923572475491	-0.013816878842258578	0.4743598684252331	-0.17931747630455694	-0.16994989209896855	-0.22471052274181197	-0.10336202021196547
PC3	0.01847960844698878	0.04831566848755338	0.021563818916318315	0.05777957956909401	0.5667322850497784	-0.14983922567624447	0.05437022883005304	-0.297495748915991	0.2304358616309261	-0.7108606171030323
PC4	0.1591916920348744	0.0022954336586658818	0.4087533223472061	0.002493606413396801	-0.17169383321531312	0.5185947515485403	0.6114734825174793	-0.1739901808348643	-0.259597860754911	-0.19386721928469647
PCS	-0.6249646156929852	0.5003502515509545	0.06659395922959492	-0.017045702816526946	-0.31299352827726934	-0.0811640228897173	0.2299453583159414	0.2572815442545777	0.2955069323090763	-0.2083218382487769
PC6	0.2592832895622246	0.41639226854367706	-0.019852414559155294	-0.18649850214130426	-0.16857975419263094	-0.6348158851641325	0.22957042597606786	-0.3710656472594244	-0.30644758667259825	0.09220132737302147
PC7	-0.18513830617433116	0.29842486263957035	0.42443831994249226	-0.10917820229837744	0.21282130177277608	0.2260862871627682	-0.2756298394675021	-0.5209076998305798	0.253144445268063	0.4204663786840707
PCS	0.02070954614750137	-0.17149091349020748	-0.34120050058775303	0.505363388782736	-0.10232692140880353	-0.05190661603030312	0.42660376501651043	-0.33272153861147363	0.46726603388424326	0.272314172103611
PC9	0.34855194621654156	0.3964674059412869	0.326030068807842	0.6772909101431549	0.1263633214304734	-0.06494997656807458	-0.11689229557708834	0.3446703167356453	-0.023413366442057982	0.05452371747733312
PC10	-0.45871024036544306	-0.007328775696979496	-0.09451940608725302	0.13234282860502436	0.5800164205893255	-0.06000180721365127	0.32341104749171035	0.10838566848592242	-0.4663458837192775	0.2987352589894085

また、ボケモンの個体値と各成績を第一・第二主成分でプロットしたものをそれぞれ図3、図6に示す

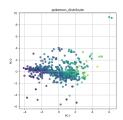
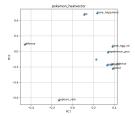


図5:各ボケモンの個体値について第一・第二主成分でプロットしたもの



図の:各個体値について第一・第二主流分でプロットしたもの ガウセンの間保険と流波分との関係を見ると、offence、attack、offense、ap_attack、ap_defense、apert せのことから、ボウセンの関係接き次の必要素の第一主流分比攻撃がや物質が、第二主流分止が減さたと考える。 はなど攻撃型が勃制型かを表す値が第一主成分の係数が大きく、bp. base_happinesse基礎なつき度、capture_rate=機関率など、急遽さを表す値が第二主成分の係数が大きくなっている。