In [20]:	import Packages  import numpy as np import pandas as pd import matplotlib.pyplot as pi import seaborn as sns	lt										
	from pandas.plotting import so from sklearn.impute import Sin from sklearn.preprocessing import sklearn.model_selection from sklearn.preprocessing import sklearn.linear_model import from sklearn.tree import Decision sklearn.ensemble import from sklearn import metrics  #%matplotlib notebook	mpleImputer port LabelEncoder import train_test port StandardScal ort LinearRegress sionTreeRegressor	_split er ion									
	**Matplotlib inline  Introduction: Leag  League of Legends has become one of esports scene, with multiple profession  Since its release, League of Legends has become one of the scene its release, League of Legends has become one of the scene its release.	of the most popular vio nal leagues and annua nas undergone multipl	deo games in the al world champio le updates, introd	nships, where a	the best teams a	and players cor	npete for huge	prize pools	and the title of w	orld champion.		
	League of Legends has had a significate game has also had an impact on popular world Championsh	ant impact on the video lar culture, with multip	o game industry, ble references to	influencing the	e development o	s, TV shows, an	d music video	S.				=
	The League of Legends World Champi prize pool. The tournament features 24 over several weeks and consists of several crowned the champion. The event attraction of the World Championship is known for seen multiple champions over the year. The event is not only important for the entertainment and competition, attraction	4 teams from 11 region veral stages, including acts millions of viewer its high level of compars, including SK Telectory.	ns, with the top to g the play-in stag rs from around th petition, with the b om T1, Invictus C and players but als	eams from eace, group stage e world and is best teams and Saming, and Fuso for the espo	ch region compe , quarterfinals, s one of the most I players from ar unPlus Phoenix,	eting in the mair semifinals, and s-watched espon round the world , with each year	event and the the grand final its events each competing to its tournament	e rest compet s, with teams n year. prove their sl bringing new	ing in a play-in s battling it out in kills and earn the surprises and u	tage. The tournament best-of-five matches title of world champ psets.	nt typically spans s until one team is ion. The event has	
	Key Teams and Pla  1. T1  In League of Legends, T1 is one of the	ayers			World Champio	nships (in 2013	, 2015, and 20	016) and num	erous domestic	titles in Korea's LCK	league. The team	
	has a rich history of producing some of play and disciplined approach to the gas Key Players:  • Faker: Lee "Faker" Sang-hyeok is Telecom T1), a South Korean team make game-winning plays. He has Korea titles, and has been widely a south some players.	ame. s one of the most fam m that has won multip s won numerous indiv	ous and success le World Champi ridual awards, inc	ful League of L onships. Faker luding three W	Legends players r is known for his /orld Champions	s of all time. He s exceptional s ship title, two M	has spent his kill as a mid la id-Season Invi	entire profes ner, with his p	sional career pla precise mechanio 16, 2017), and ha	ying for T1 (formerly cal ability and game s as 10 combined LCK	known as SK sense allowing him to and Champions	ı
	<ul> <li>Korea titles, and has been widely in been an inspiration to many aspirit</li> <li>Zeus: Choi "Zeus" Woo-je is know such as Camille and Irelia, as well he is widely considered to have a limit of the constant of the constan</li></ul>	ng players in the Leag wn for his strong lanin I as tanky champions	gue of Legends of Lege	community. al skills, as wel on. Despite his	l as his aggress	ive playstyle. H	e is a versatile	e player who	can play a variet	y of champions, inclu	ıding carry top laners	
	<ul> <li>2. RNG</li> <li>Royal Never Give Up (RNG) In League has a strong roster of players, including early.</li> <li>Key Players:</li> <li>Xiaohu: Li "Xiaohu" Yuanhao star</li> </ul>	g some of the best pla	ayers in the world	I in their respe	ctive roles. They	/ are known for	their aggressi	ve playstyle a	and their ability to	o make plays and tak	ce control of games	
	<ul> <li>Xiaohu : Li "Xiaohu" Yuanhao star Season Invitational (MSI) in 2021 one of the best players in the world</li> <li>Ming : Shi "Ming" Sen-Ming is conteam win numerous regional and in</li> </ul>	as a top laner. Xiaohu d. At World Champion nsidered one of the be	u is the only playonship 2022, Xiaol	er that won munu role swap bars in the world,	ltiple internation ack as a mid lar known for his e	nal titles with dif ner for RNG, he excellent mecha	ferent roles. H will likely be a	is transition to t key player to e sense. Ming	o top lane at MS o watch for this a g has been an int	2021 helped solidify nd future internation egral part of RNG's	whis reputation as all competitions.	
	3. TES  Top Esports (TES) is a professional est and they are known for their aggressive Championship, and they will likely be of Key Players:  • JackeyLove : Yu "JackeyLove" W	e playstyle and ability one of the favorites to	to dominate opp	onents. With the	heir combinatior	n of individual s	kill and team p	lay, TES will	be a formidable	opponent for any tea	m at the World	
	<ul> <li>JackeyLove : Yu JackeyLove Whelped the team win the champion aggressive plays. JackeyLove is c</li> <li>Knight : Zhuo "Knight" Ding is corand is known for his ability to play the League of Legends World Champion</li> </ul>	nship. JackeyLove is keep considered one of the ensidered one of the beep both aggressive and	known for his abit best AD carries it est mid laners in defensive styles,	ity to dominate n the world. the world, know depending on	e games from the	e bottom lane, tional mechanioneeds. With his	and is particula	arly skilled at	playing champic	ns that rely on stron	g laning and	-
	<b>A. DK</b> DAMWON KIA (DK) is a professional of the dominant forces in the esports we in the world. They are known for their start Key Players:	vorld by winning the W	Vorld Champions	hip in 2020. In	World Champio	nship 2022, Dk						
	<ul> <li>ShowMaker: In 2020, Heo "Show in many of Damwon KIA's victories tide of a game. At the League of Leto reclaim the World Championship</li> <li>Canyon: Kim "Canyon" Geon-bu victory in the LCK Summer Split at his ability to make plays happen in</li> </ul>	s, with his ability to co egends World Champ p title. is widely regarded as nd the League of Leg	ontrol the mid land pionship 2022, Sl s one of the best ends World Chai	e and make ke nowMaker will unglers in the mpionship, ear	ey plays in teamfonce again be a world and has be ning the tournar	ights. ShowMa a player to watc been a key part ment MVP awa	ker is talented h. With his exp of Damwon Kl rd for his outst	for positioning perience and A's success anding perfor	g himself well ar leadership, he w in recent years. I mance. Canyon	nd making clutch play ill be a key part of Da n 2020, he helped le is known for his agg	ys that can turn the amwon KIA's efforts and Damwon KIA to	
	5. EDG  EDward Gaming (EDG) is a Chinese to on objective control and map pressure. 2021. At the League of Legends World be a tough opponent for any team at the	. EDG has won multip I Championship 2022,	ole LPL titles and , EDG will be lool	has also had s	success on the i	nternational sta	ige. The team	won the 201	5 Mid-Season In	vitational and World	Championships	•
	<ul> <li>Key Players:</li> <li>Scout: Lee "Scout" Ye-chan is on versatility and ability to play a wide EDG's success.</li> <li>Viper: Jang "Viper" Min-chul is knochampions that can make plays had</li> </ul>	e variety of champions  nown for his exception  appen and exert press	s at a high level. nal mechanics an sure on the map.	He is skilled at	controlling the	mid lane and ro	aming to othe killed at playin	r parts of the g a wide vari	map to make pla	ays happen, which w	ill be a key part of	
	aggressive playstyle will help to see  6. GEN.G  Gen.G is a League of Legends team contact the seed of LCK, with several top finishes in the research team.	ompetes in the LCK (	League of Legen	•		•		South Korea.	The team has a	strong track record (	of success in the	
	<ul> <li>Chovy: Jeong "Chovy" Ji-hoon is and players for his impressive skill</li> <li>Ruler: Park "Ruler" Jae-hyuk is thone of the top players in his role. Fixed will be crucial for Gen.G's succession.</li> </ul>	I and game sense. Ch ne AD Carry for Gen.C He is also known for h	novy's presence of and is known fo	on the Gen.G r	oster is expecte	ed to make then and his ability t	n a strong cont	tender in the	League of Leger	nds World Champion	ship 2022.	
	7. G2  G2 Esports is a professional esports of unpredictable playstyle, often catching willingness to experiment with unorthood Key Players:	opponents off guard	•	_	_		-		_			
	<ul> <li>Jankos: Marcin "Jankos" Jankow experienced player, with a deep urengaging with fans on social media</li> <li>Caps: Rasmus "Caps" Winther fire the finals of the 2018 World Chambeing named the MVP of the 2019</li> </ul>	nderstanding of the ga ia. He is a popular pla rst burst onto the com pionship, where they	ame and an abiling the state of	y to out-jungle ne League of L a mid laner fo	many of his oppegends commun	ponents. Janko nity and among he quickly esta	s is also know his fellow play blished himsel	n for his pers /ers. f as a talente	onality and sens d player with a u	e of humor, often ma nique playstyle. He l	nking jokes and	
	8. C9  Cloud9 (C9) has been a dominant forcundergone significant changes over the them a fan favorite among League of L	e years, with a rotatin	_		•					•		
	<ul> <li>Key Players:</li> <li>Blaber: Robert "Blaber" Huang had 2021, Blaber was named the LCS known for his strong mechanical s</li> <li>Fudge: Ibrahim "Fudge" Allami is expected to be a key player for C9 has been a key member of the tea</li> </ul>	Summer Split MVP askill and ability to created considered one of the pin the future. Fudge	and helped lead Cote early game ad te early game ad e best young play joined C9's acad	C9 to a second- vantages for hi yers in the regi emy team in 20	-place finish in this team.  Ton and is knowr  O19 and quickly	he Summer Pla n for his strong rose through th	lyoffs. He is co laning and abi ne ranks to bed	insidered one lity to create come the star	e of the best jung pressure on the l ting top laner for	lers in the North Ame map. He has shown the main roster in 2	erican region and is	
In [66]: Out[66]:	# read csv team = pd.read_csv("wc_teams_team.head(5)  team games_played wins loses		ntion kills death	s kd combi	ned kills ner mi	nute gold nero	ent rating	first dragon	rate dragon cor	ntrol rate elder drag	on rate first baron ra	ate
	0       100 Thieves       6       1       5         1       Cloud9       6       1       5         2       Flying Oyster       6       1       5         3       DRX       21       14       7	5 5 5	30.7 53 8 27.2 40 8 31.7 48 11 34.5 276 20	3 0.64 8 0.45 8 0.41 0 1.38 3 1.31		0.74 0.78 0.87 0.66 0.81	-1.05 -1.92 -1.31 0.68 1.53		33% 50% 50% 48% 58%	33% 33% 24% 53% 70%	NaN       33         NaN       17         NaN       33         67%       67	3% 7% 3% 7%
In [67]: In [68]:	team = team.drop(columns=['win		ls','deaths', .ood_rate','fi	'average_gam rst_to_three	e_towers_rate	','elder_dra		ute','gold <sub>-</sub>	_spent_differe	ence',		
	<pre>team.info()  <class #="" 'pandas.core.frame.data="" (total="" 0="" 1="" 16="" 2="" 3="" 4="" column="" columns="" data="" early_game_rating<="" entries,="" games_played="" gold_percent_rating="" kd="" pre="" rangeindex:="" team="" to=""></class></pre>	Non-Null Count  16 non-null 16 non-null 16 non-null 16 non-null 16 non-null	object int64 float64 float64 float64									
	<pre>5 mid_late_rating 6 gold_diff_15 7 turrent_plates_destroyed 8 rift_herald_rate 9 first_dragon_rate 10 dragon_control_rate 11 first_baron_rate 12 baron_control_rate 13 lane_control 14 jungle_control 15 winrate dtypes: float64(6), int64(2),</pre>	16 non-null	float64 int64 float64 object object object object object object object float64									
In [69]:	<pre>memory usage: 2.1+ KB  #change object types to float team['rift_herald_rate'] = team ['first_dragon_rate'] = team ['dragon_control_rate'] = team['first_baron_rate'] = team ['baron_control_rate'] = team ['lane_control'] = team ['jungle_control'] = team team.head(5)</pre>	<pre>am['rift_herald_r eam['first_dragon team['dragon_con am['first_baron_r team['baron_contr lane_control'].st</pre>	<pre>_rate'].str.r trol_rate'].s ate'].str.rst ol_rate'].str r.rstrip('%')</pre>	strip('%').a tr.rstrip('% rip('%').ast .rstrip('%') .astype('flo	astype('float 6').astype('f cype('float') ).astype('flo pat') / 100.0	') / 100.0 loat') / 100 / 100.0 at') / 100.0						
Out[69]:	. ,	_percent_rating early	game_rating mid 43.6 33.0 32.4 57.0	-27.0 -16.4 -15.7	-732 -1957 -1300	ent_plates_desti	oyed rift_hera 4.3 2.5 4.3 4.5	0.67 0.33 0.17	_dragon_rate dra 0.33 0.50 0.50 0.48	gon_control_rate firs	0.33 0.17 0.33 0.67	connoc
In [77]: Out[77]:	## Label encode for categorical labelEncoder = LabelEncoder() team["team"] = labelEncoder.fr	1.53 al feature (team)	74.4 ["team"])	-16.1	2262	t plates destroy	7.5	0.78	0.58	0.70	0.75	ntro
In [78]:	<pre>0  0  6  0.64 1  2  6  0.45 2  1  6  0.41 3  3  21  1.38 4  4  12  1.31</pre>	-1.05 -1.92 -1.31 0.68 1.53	43.6 33.0 32.4 57.0 74.4	-27.0 -16.4 -15.7 9.6 -16.1	-732 -1957 -1300 678 2262		2.5 4.3 4.5	0.67 0.33 0.17 0.62 0.78	0.33 0.50 0.50 0.48 0.58	0.33 0.33 0.24 0.53 0.70	0.33 0.17 0.33 0.67 0.75	
	<pre><class #="" 'pandas.core.frame.data="" (total="" 0="" 1="" 16="" 2="" 3="" 4="" 5="" column="" columns="" data="" early_game_rating="" entries,="" games_played="" gold_percent_rating="" kd="" mid_late_rating<="" pre="" rangeindex:="" team="" to=""></class></pre>	Non-Null Count  16 non-null 16 non-null 16 non-null 16 non-null 16 non-null	Dtype int64 int64 float64 float64 float64 float64									
	6 gold_diff_15 7 turrent_plates_destroyed 8 rift_herald_rate 9 first_dragon_rate 10 dragon_control_rate 11 first_baron_rate 12 baron_control_rate 13 lane_control 14 jungle_control 15 winrate dtypes: float64(13), int64(3) memory usage: 2.1 KB	16 non-null	int64 float64 float64 float64 float64 float64 float64 float64 float64 float64									
In [79]: Out[79]:	<pre>#correlation hcorr = team.corr() hcorr.style.background_gradien</pre>		0.31	7680	me_rating mid_		l_diff_ <b>15</b> turre	0.:				
	gold_percent_rating 0.317680	0.707269 0.920618	0.92		0.625913 0.889782	0.744798	0.621133		_	.87682     0.294       .85180     0.147       .22714     0.276	633 0.7728	
	early_game_rating 0.233605  mid_late_rating 0.517975  gold_diff_15 0.211540  turrent_plates_destroyed 0.186675  rift_herald_rate -0.087682  first_dragon_rate 0.294709	0.625913	1.00 2 0.95 6 0.44 8 0.96 6 0.78 4 0.72 8 0.37	7269 0618 00000 1654 5719 3811 2031 1118 7338	0.889782 0.951654 1.000000 0.264726 0.985494 0.793025 0.737898 0.361757	0.744798 0.611046 0.445719 0.264726 1.000000 0.309010 0.054582 0.203270 0.110604	0.879008 0.963811 0.985494 0.309010 1.000000 0.834926 0.747392 0.309961	0.0 0.0 0.0 0.1 1.0	782031 0.7 793025 0.7 054582 0.2 334926 0.7 000000 0.5	85180 0.147 222714 0.276 221118 0.377 37898 0.361 203270 0.110 47392 0.309 81160 0.271 200000 0.172 72580 1.000	338     0.7308       757     0.7228       604     0.4080       961     0.6670       110     0.4513       580     0.5212       000     0.5271	868 862 851 028 050 310 248
In [80]:	mid_late_rating	0.625913	1.00 2 0.95 6 0.44 8 0.96 6 0.78 4 0.72 8 0.37 8 0.87 7 0.90 2 0.44 1 0.84	0618 0000 1654 5719 3811 2031	0.889782 0.951654 1.000000 0.264726 0.985494 0.793025 0.737898	0.744798 0.611046 0.445719 0.264726 1.000000 0.309010 0.054582 0.203270 0.110604 0.408028 0.297066 0.328615 0.680520 0.613797	0.879008 0.963811 0.985494 0.309010 1.000000 0.834926 0.747392	0.0 0.1 0.1 0.1 0.2 0.2 0.3 0.4 0.4 0.5	600196       0.6         782031       0.7         793025       0.7         054582       0.2         0334926       0.7         000000       0.5         581160       1.0         271110       0.1         451310       0.5         686856       0.6         320050       0.0         622417       0.7	85180 0.147 222714 0.276 21118 0.377 37898 0.361 03270 0.110 47392 0.309 881160 0.271	338       0.7308         757       0.7228         604       0.4080         961       0.6670         110       0.4513         580       0.5212         000       0.5271         134       1.0000         440       0.6466         030       0.6450         189       0.2512         811       0.7581	868 862 851 028 050 310 248 134 000 620 033 239
In [80]:	mid_late_rating gold_diff_15 0.211540  turrent_plates_destroyed 0.186675  rift_herald_rate -0.087682  first_dragon_rate 0.294709  dragon_control_rate 0.530475  first_baron_rate 0.246009  baron_control_rate 0.308498  lane_control 0.524945  jungle_control 0.362222  winrate 0.461947  #heatmap using seaborn #set the context for plotting sns.set(context="paper", font= team_corr_matrix = team.corr( #set the matplotlib figure fig, axe = plt.subplots(figsi: #Generate color palettes cmap = sns.diverging_palette(: #draw the heatmap sns.heatmap(team_corr_matrix, value)	0.625913	1.00 2.0.95 3.0.96 3.0.96 4.0.72 3.0.37 3.0.73 4.0.90 2.0.44 4.0.89 4.0.89	0618 0000 1654 5719 3811 2031 1118 7338 0862 0316 9953 8974 5738 0197  ap=True) , annot=True	0.889782 0.951654 1.000000 0.264726 0.985494 0.793025 0.737898 0.361757 0.722851 0.923619 0.916906 0.333608 0.780189 0.812891	0.744798 0.611046 0.445719 0.264726 1.000000 0.309010 0.054582 0.203270 0.110604 0.408028 0.297066 0.328615 0.680520 0.613797	0.879008 0.963811 0.985494 0.309010 1.000000 0.834926 0.747392 0.309961 0.667050 0.909836 0.889933 0.403754 0.793624	0.0 0.1 0.1 0.1 0.2 0.2 0.3 0.4 0.4 0.5	600196       0.6         782031       0.7         793025       0.7         054582       0.2         0334926       0.7         000000       0.5         581160       1.0         271110       0.1         451310       0.5         686856       0.6         320050       0.0         622417       0.7	.85180       0.147         .22714       0.276         .21118       0.377         .37898       0.361         .03270       0.110         .47392       0.309         .81160       0.271         .000000       0.172         .72580       1.000         .21248       0.527         .01020       0.317         .12826       0.271         .04064       0.209         .36456       0.572	338       0.7308         757       0.7228         604       0.4080         961       0.6670         110       0.4513         580       0.5212         000       0.5271         134       1.0000         440       0.6466         030       0.6450         189       0.2512         811       0.7581	868 862 851 028 050 310 248 134 000 620 033 239
In [80]:	mid_late_rating gold_diff_15 0.211540  turrent_plates_destroyed 0.186675  rift_herald_rate -0.087682  first_dragon_rate 0.294709  dragon_control_rate 0.530475  first_baron_rate 0.246009  baron_control_rate 0.308498  lane_control 0.524945  jungle_control 0.362222  winrate 0.461947   #heatmap using seaborn #set the context for plotting sns.set(context="paper", font= team_corr_matrix = team.corr( #set the matplotlib figure fig, axe = plt.subplots(figsi: #Generate color palettes cmap = sns.diverging_palette(: #draw the heatmap sns.heatmap(team_corr_matrix, sns.heatmap(team_corr_matrix))  team	0.625913	1.00 2.0095 3.0096 3.0096 3.0096 3.0096 3.0096 3.0097 3.00	0618 0000 1654 5719 3811 2031 1118 7338 0862 0316 9953 8974 5738 0197  ap=True) , annot=True 0.31 0.52 0.36 0. 0.69 0.45 0.67 0. 0.69 0.45 0.67 0. 0.69 0.45 0.85 0. 0.91 0.45 0.85 0. 0.92 0.33 0.78 0. 0.92 0.33 0.78 0. 0.93 0.40 0.79 0.	0.889782	0.744798 0.611046 0.445719 0.264726 1.000000 0.309010 0.054582 0.203270 0.110604 0.408028 0.297066 0.328615 0.680520 0.613797 0.776709	0.879008 0.963811 0.985494 0.309010 1.000000 0.834926 0.747392 0.309961 0.667050 0.909836 0.889933 0.403754 0.793624	0.0 0.1 0.1 0.1 0.2 0.2 0.3 0.4 0.4 0.5	600196       0.6         782031       0.7         793025       0.7         054582       0.2         0334926       0.7         000000       0.5         581160       1.0         271110       0.1         451310       0.5         686856       0.6         320050       0.0         622417       0.7	.85180       0.147         .22714       0.276         .21118       0.377         .37898       0.361         .03270       0.110         .47392       0.309         .81160       0.271         .000000       0.172         .72580       1.000         .21248       0.527         .01020       0.317         .12826       0.271         .04064       0.209         .36456       0.572	338       0.7308         757       0.7228         604       0.4080         961       0.6670         110       0.4513         580       0.5212         000       0.5271         134       1.0000         440       0.6466         030       0.6450         189       0.2512         811       0.7581	868 862 851 028 050 310 248 134 000 620 033 239
In [80]:	mid_late_rating	0.625913	1.000 0.95 0.96 0.96 0.97 0.96 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98	0618 00000 1654 5719 3811 2031 1118 7338 0862 0316 9953 8974 5738 0197  ap=True) , annot=True 0.31 0.52 0.36 0. 0.69 0.45 0.67 0. 0.69 0.45 0.67 0. 0.92 0.33 0.78 0. 0.92 0.33 0.78 0. 0.92 0.33 0.78 0. 0.92 0.33 0.78 0. 0.92 0.33 0.78 0. 0.92 0.33 0.78 0. 0.92 0.35 0.60 0. 0.69 0.45 0.65 0. 0.69 0.45 0.65 0. 0.69 0.32 0.62 0.	0.889782   0.951654   1.000000   0.264726   0.985494   0.793025   0.737898   0.923619   0.916906   0.333608   0.780189   0.812891   );  46   86   95   89   81   78   83   78   83   78   84   85   61   78   84   85   86   87   88   89   81   81   82   84   85   86   87   88   89   80   81   81   82   83   84   85   86   86   87   88   89   80   81   81   82   83   84   85   86   86   87   88   89   80   81   81   82   83   84   85   86   86   87   88   89   80   81   81   82   84   85   86   86   87   88   89   80   81   81   82   83   84   85   86   86   87   88   89   80   80   81   81   82   83   84   85   86   86   87   88   89   80   80   81   81   82   83   84   85   86   87   88   89   80   80   81   81   82   83   84   85   86   87   88   89   80   80   81   81   82   83   84   85   86   87   88   89   80   80   81   81   82   83   84   85   86   87   88   88   89   80   80   81   81   82   83   84   85   86   87   88   88   89   80   80   81   81   82   83   84   85   86   86   87   88   88   89   80   80   81   81   81   82   83   84   85   86   86   87   88   88   89   80   80   81   81   82   83   84   85   86   87   88   88   89   80   80	0.744798 0.611046 0.445719 0.264726 1.000000 0.309010 0.054582 0.203270 0.110604 0.408028 0.297066 0.328615 0.680520 0.613797 0.776709	0.879008 0.963811 0.985494 0.309010 1.000000 0.834926 0.747392 0.309961 0.667050 0.909836 0.889933 0.403754 0.793624	0.0 0.1 0.1 0.1 0.2 0.2 0.3 0.4 0.4 0.5	600196       0.6         782031       0.7         793025       0.7         054582       0.2         0334926       0.7         000000       0.5         581160       1.0         271110       0.1         451310       0.5         686856       0.6         320050       0.0         622417       0.7	.85180       0.147         .22714       0.276         .21118       0.377         .37898       0.361         .03270       0.110         .47392       0.309         .81160       0.271         .000000       0.172         .72580       1.000         .21248       0.527         .01020       0.317         .12826       0.271         .04064       0.209         .36456       0.572	338       0.7308         757       0.7228         604       0.4080         961       0.6670         110       0.4513         580       0.5212         000       0.5271         134       1.0000         440       0.6466         030       0.6450         189       0.2512         811       0.7581	868 862 851 028 050 310 248 134 000 620 033 239
	mid_late_rating gold_diff_15	0.625913	1.000 0.95 0.44 0.72 0.96 0.97 0.73 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.98 0.98 0.99 0.99	0618 00000 1654 5719 3811 2031 1118 7338 0862 0316 9953 8974 5738 0197  2031 0.52 0.36 0.69 0.45 0.69 0.45 0.69 0.45 0.69 0.45 0.69 0.40 0.69 0.45 0.69 0.40 0.69 0.40 0.60 0.60 0.60 0.60 0.60 0.60 0.60	0.889782   0.951654   1.000000   0.264726   0.985494   0.793025   0.737898   0.923619   0.916906   0.333608   0.780189   0.812891   );  46   86   95   89   81   78   83   78   83   78   83   78   84   85   86   87   88   88   88   88   88   88   88   88   89   80   81   81   82   83   84   85   86   87   88   88   88   89   80   80   81   81   82   83   84   85   86   87   88   88   89   80   80   81   81   82   83   84   85   86   87   88   88   89   80   80   81   81   82   83   84   85   86   87   87   88   88   89   80   80   81   81   82   83   84   85   86   87   87   88   89   80   80   80   81   81   82   83   84   85   86   87   88   89   80   80   81   81   82   83   84   85   86   87   87   88   89   80   80   81   81   82   83   84   85   86   87   87   88   88   89   80   80   81   81   82   83   84   85   86   87   87   88   88   89   80   80   81   81   82   83   84   85   86   87   87   88   88   89   80   80   81   81   81   82   83   84   85   86   87   87   88   88   89   80   80   80   81   81   81   82   83   84   85   86   87   87   88   88   89   89   80   80   80   80   80   80   80   80   80   80   80   80   80   80   80   80	0.744798 0.611046 0.445719 0.264726 1.000000 0.309010 0.054582 0.203270 0.110604 0.408028 0.297066 0.328615 0.680520 0.613797 0.776709	0.879008 0.963811 0.985494 0.309010 1.000000 0.834926 0.747392 0.309961 0.667050 0.909836 0.889933 0.403754 0.793624	0.0 0.1 0.1 0.1 0.2 0.2 0.3 0.4 0.4 0.5	600196       0.6         782031       0.7         793025       0.7         054582       0.2         0334926       0.7         000000       0.5         581160       1.0         271110       0.1         451310       0.5         686856       0.6         320050       0.0         622417       0.7	.85180       0.147         .22714       0.276         .21118       0.377         .37898       0.361         .03270       0.110         .47392       0.309         .81160       0.271         .000000       0.172         .72580       1.000         .21248       0.527         .01020       0.317         .12826       0.271         .04064       0.209         .36456       0.572	338       0.7308         757       0.7228         604       0.4080         961       0.6670         110       0.4513         580       0.5212         000       0.5271         134       1.0000         440       0.6466         030       0.6450         189       0.2512         811       0.7581	868 862 851 028 050 310 248 134 000 620 033 239
In [80]: Out[81]:	mid_late_rating gold_diff_15  turrent_plates_destroyed  first_dragon_rate	0.625913	1.000 0.95 0.044 0.072 0.073 0.073 0.073 0.073 0.087 0.90 0.44 0.84 0.89 0.15 0.5 0.62 0.28 0.77 0.89 0.49 0.15 0.5 0.62 0.28 0.77 0.87 0.72 0.38 0.77 0.87 0.72 0.38 0.77 0.87 0.72 0.38 0.77 0.87 0.78 0.87 0.90 0.89 0.89 0.89 0.89 0.89 0.89 0.89	0618 00000 1654 5719 3811 2031 1118 7338 0862 0316 9953 8974 5738 0197  2031 0.52 0.36 0.69 0.45 0.67 0.09 0.45 0.67 0.09 0.45 0.67 0.09 0.45 0.67 0.09 0.45 0.67 0.09 0.45 0.67 0.09 0.45 0.67 0.09 0.69 0.45 0.67 0.09 0.69 0.45 0.67 0.09 0.69 0.45 0.69 0.45 0.69 0.45 0.69 0.45 0.69 0.45 0.69 0.45 0.69 0.45 0.69 0.45 0.69 0.45 0.69 0.45 0.69 0.45 0.69 0.45 0.69 0.45 0.69 0.45 0.69 0.45 0.69 0.69 0.45 0.69 0.69 0.69 0.69 0.69 0.69 0.69 0.69	0.889782   0.951654   1.000000   0.264726   0.985494   0.793025   0.737898   0.923619   0.916906   0.333608   0.780189   0.812891   );  46   86   95   89   81   78   83   78   83   78   83   78   84   85   86   87   88   88   88   88   88   88   88   88   89   80   81   81   82   83   84   85   86   87   88   88   88   89   80   80   81   81   82   83   84   85   86   87   88   88   89   80   80   81   81   82   83   84   85   86   87   88   88   89   80   80   81   81   82   83   84   85   86   87   87   88   88   89   80   80   81   81   82   83   84   85   86   87   87   88   89   80   80   80   81   81   82   83   84   85   86   87   88   89   80   80   81   81   82   83   84   85   86   87   87   88   89   80   80   81   81   82   83   84   85   86   87   87   88   88   89   80   80   81   81   82   83   84   85   86   87   87   88   88   89   80   80   81   81   82   83   84   85   86   87   87   88   88   89   80   80   81   81   81   82   83   84   85   86   87   87   88   88   89   80   80   80   81   81   81   82   83   84   85   86   87   87   88   88   89   89   80   80   80   80   80   80   80   80   80   80   80   80   80   80   80   80	0.744798 0.611046 0.445719 0.264726 1.000000 0.309010 0.054582 0.203270 0.110604 0.408028 0.297066 0.328615 0.680520 0.613797 0.776709	0.879008 0.963811 0.985494 0.309010 1.000000 0.834926 0.747392 0.309961 0.667050 0.909836 0.889933 0.403754 0.793624	0.0 0.1 0.1 0.1 0.2 0.2 0.3 0.4 0.4 0.5	600196       0.6         782031       0.7         793025       0.7         054582       0.2         0334926       0.7         000000       0.5         581160       1.0         271110       0.1         451310       0.5         686856       0.6         320050       0.0         622417       0.7	.85180       0.147         .22714       0.276         .21118       0.377         .37898       0.361         .03270       0.110         .47392       0.309         .81160       0.271         .000000       0.172         .72580       1.000         .21248       0.527         .01020       0.317         .12826       0.271         .04064       0.209         .36456       0.572	338       0.7308         757       0.7228         604       0.4080         961       0.6670         110       0.4513         580       0.5212         000       0.5271         134       1.0000         440       0.6466         030       0.6450         189       0.2512         811       0.7581	868 862 851 028 050 310 248 134 000 620 033 239
In [81]:	mid_late_rating	0.625913 0.889782 0.744798 0.611046 0.621133 0.879008 0.307809 0.600196 0.485180 0.622712 0.147957 0.276633 0.503821 0.772868 0.664388 0.871701 0.687675 0.870737 0.448812 0.552032 0.667567 0.815033 0.861045 0.950711  ""monospace")))  ze=(12,8)) 220,10,center = " vmax=1, square =Tr 32 0.23 0.52 0.21 0.19 0.71 0.63 0.74 0.62 0.31 0.92 0.79 0.94 0.95 0.45 0.96 0.78 0.99 1 0.26 0.99 0.79 0.94 45 0.26 1 0.31 0.055 0.96 0.99 0.31 1 0.83 0.65 0.72 0.41 0.67 0.45 0.88 0.87 0.92 0.33 0.91 0.71 0.91 0.92 0.33 0.89 0.69 0.78 0.73 0.72 0.41 0.67 0.45 0.88 0.81 0.78 0.83 0.55 0.88 0.81 0.78 0.80 0.91 0.71 0.91 0.92 0.83 0.89 0.69 0.98 0.81 0.78 0.83 0.55 0.88 0.81 0.78 0.83 0.55 0.88 0.81 0.78 0.83 0.55 0.88 0.81 0.78 0.83 0.55 0.88 0.81 0.78 0.83 0.55 0.88 0.81 0.78 0.83 0.55 0.88 0.81 0.78 0.83 0.55 0.88 0.81 0.78 0.83 0.55 0.88 0.81 0.78 0.81 0.79 0.62 0.88 0.81 0.78 0.83 0.55 0.88 0.81 0.78 0.83 0.55 0.88 0.81 0.78 0.83 0.55 0.88 0.81 0.78 0.83 0.55 0.88 0.81 0.78 0.81 0.79 0.62 0.88 0.81 0.78 0.83 0.55 0.88 0.81 0.78 0.83 0.55 0.88 0.81 0.78 0.83 0.55 0.88 0.81 0.78 0.83 0.55 0.88 0.81 0.81 0.81 0.81 0.81 0.81 0.81 0.81	1.000 2.000 3.000	0618 00000 1654 5719 3811 2031 1118 7338 0862 0316 9953 8974 5738 0197  2031 0.52 0.36 0.69 0.45 0.67 0.09 0.45 0.67 0.09 0.45 0.67 0.09 0.45 0.67 0.09 0.45 0.67 0.09 0.45 0.67 0.09 0.45 0.67 0.09 0.69 0.45 0.67 0.09 0.69 0.45 0.67 0.09 0.69 0.45 0.69 0.45 0.69 0.45 0.69 0.45 0.69 0.45 0.69 0.45 0.69 0.45 0.69 0.45 0.69 0.45 0.69 0.45 0.69 0.45 0.69 0.45 0.69 0.45 0.69 0.45 0.69 0.45 0.69 0.69 0.45 0.69 0.69 0.69 0.69 0.69 0.69 0.69 0.69	0.889782   0.951654   1.000000   0.264726   0.985494   0.793025   0.737898   0.923619   0.916906   0.333608   0.780189   0.812891   );  46   86   95   89   81   78   83   78   83   78   83   78   84   85   86   87   88   88   88   88   88   88   88   88   89   80   81   81   82   83   84   85   86   87   88   88   88   89   80   80   81   81   82   83   84   85   86   87   88   88   89   80   80   81   81   82   83   84   85   86   87   88   88   89   80   80   81   81   82   83   84   85   86   87   87   88   88   89   80   80   81   81   82   83   84   85   86   87   87   88   89   80   80   80   81   81   82   83   84   85   86   87   88   89   80   80   81   81   82   83   84   85   86   87   87   88   89   80   80   81   81   82   83   84   85   86   87   87   88   88   89   80   80   81   81   82   83   84   85   86   87   87   88   88   89   80   80   81   81   82   83   84   85   86   87   87   88   88   89   80   80   81   81   81   82   83   84   85   86   87   87   88   88   89   80   80   80   81   81   81   82   83   84   85   86   87   87   88   88   89   89   80   80   80   80   80   80   80   80   80   80   80   80   80   80   80   80	0.744798 0.611046 0.445719 0.264726 1.000000 0.309010 0.054582 0.203270 0.110604 0.408028 0.297066 0.328615 0.680520 0.613797 0.776709	0.879008 0.963811 0.985494 0.309010 1.000000 0.834926 0.747392 0.309961 0.667050 0.909836 0.889933 0.403754 0.793624	0.0 0.1 0.1 0.1 0.2 0.2 0.3 0.4 0.4 0.5	600196       0.6         782031       0.7         793025       0.7         054582       0.2         0334926       0.7         000000       0.5         581160       1.0         271110       0.1         451310       0.5         686856       0.6         320050       0.0         622417       0.7	.85180       0.147         .22714       0.276         .21118       0.377         .37898       0.361         .03270       0.110         .47392       0.309         .81160       0.271         .000000       0.172         .72580       1.000         .21248       0.527         .01020       0.317         .12826       0.271         .04064       0.209         .36456       0.572	338       0.7308         757       0.7228         604       0.4080         961       0.6670         110       0.4513         580       0.5212         000       0.5271         134       1.0000         440       0.6466         030       0.6450         189       0.2512         811       0.7581	868 862 851 028 050 310 248 134 000 620 033 239
In [81]: Out[81]:	mid_late_rating gold_diff_15	0.625913	1.00 2.095 3.095 3.096 3.096 3.097 3	0618 00000 1654 1654 5719 3811 2031 1118 7338 0862 0316 9953 8974 5738 0197  311 0.52 0.36 0.45 0.67 0.30 0.91 0.45 0.87 0.92 0.33 0.68 0.61 0.92 0.33 0.68 0.61 0.92 0.33 0.68 0.61 0.60 0.61 0.60 0.61 0.60 0.62 0.63 0.64 0.65 0.63 0.64 0.65 0.65 0.65 0.65 0.65 0.66 0.75 0.66 0.75 0.66 0.75 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76	0.889782 0.951654 1.000000 0.264726 0.985494 0.793025 0.361757 0.722851 0.923619 0.916906 0.3333608 0.780189 0.812891  );  46 86 95 89 81 78 83 55 661 .3 72 78 88 63 88 10 88 11 88 11 88 12 88 13 78 88 14 78 88 15 78 88 16 88 17 88 88 18 88 19 88 10 88 10 88 10 88 11 88 11 88 12 88 13 88 14 88 15 88 16 88 16 88 17 88 88 18 88 8	0.744798 0.611046 0.445719 0.264726 1.000000 0.309010 0.054582 0.203270 0.110604 0.408028 0.297066 0.328615 0.680520 0.613797 0.776709	0.879008 0.963811 0.985494 0.309010 1.000000 0.834926 0.747392 0.309961 0.667050 0.909836 0.403754 0.793624 0.830116	0. 0. 0. 0. 1. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	600196 782031 0.782031 0.793025 0.793025 0.7000000 0.583160 0.60 0.708210 0.60 0.60 0.43 0.60 0.43 0.60 0.43 0.60 0.43	001_control_rate first 0.63 0.47 0.63 0.47 0.63 0.47 0.63 0.47 0.63 0.47 0.63 0.47 0.63 0.47	baron_rate   baron_co	868 862 851 028 050 310 248 134 000 620 040
In [81]: Out[81]: In [103	## wind_late_rating gold_diff_15	0.625913 0.744798 0.744798 0.621133 0.809009 0.485180 0.503821 0.664388 0.871701 0.687675 0.861045 0.861045 0.950711 0.63 0.74 0.62 0.861045 0.950711 0.63 0.74 0.62 0.861045 0.950711 0.63 0.74 0.62 0.861045 0.950711 0.63 0.74 0.62 0.861045 0.950711 0.63 0.74 0.62 0.86 0.99 0.61 0.95 0.60 0.99 0.79 0.63 0.74 0.62 0.74 0.62 0.74 0.62 0.74 0.62 0.74 0.62 0.74 0.62 0.74 0.62 0.75 0.88 0.60 0.99 0.79 0.79 0.79 0.79 0.79 0.79 0.7	1.00 2.	0618 0000 1654 5719 3811 2031 2031 1118 7338 0862 0953 8974 5738 0953 8974 5738 0197 0197 0197 0197 0197 0197 0197 0197	0.889782 0.951654 1.000000 0.264726 0.985494 0.793025 0.737898 0.361757 0.722851 0.916906 0.3333608 0.780189 0.812891  );  46 86 95 89 81 78 83 55 661 .3 72 78 .8 88 63 88 11 63 88 61 61 62 63 88 63 88 63 88 63 88 63 88 63 88 63 88 63 88 63 88 63 88 63 88 63 63 88 63 63 88 63 63 63 63 63 63 63 63 63 63 63 63 63	0.744798 0.611046 0.445719 0.264726 1.000000 0.309010 0.054582 0.203270 0.110604 0.408028 0.297066 0.328615 0.680520 0.613797 0.776709	0.879008 0.963811 0.985494 0.309010 1.000000 0.834926 0.747392 0.309961 0.667050 0.909836 0.793624 0.830116 0.830116	0. 0. 0. 1. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	782031 0.7 793025 0.7 793025 0.7 793026 0.7 793026 0.7 793027 0.7	05.180	baron_rate baron_co	868 862 851 028 050 310 248 134 000 620 040
In [81]: Out[81]: Out[103	mid_late_rating	0.744798	1.00 2.00 3.00 3.00 3.00 3.00 3.00 3.00 3	0618 0000 1654 1654 5719 3811 2031 1118 7338 0862 0316 9953 8974 5738 0197  0.31 0.52 0.32 0.45 0.32 0.69 0.45 0.32 0.69 0.45 0.33 0.68 0.61 0.92 0.33 0.68 0.61 0.92 0.33 0.68 0.61 0.62 0.63 0.63 0.64 0.65 0.63 0.65 0.25 0.66 0.50 0.66 0.66	0.889782 0.951654 1.000000 0.264726 0.985494 0.793025 0.737898 0.361757 0.923619 0.916906 0.333608 0.780189 0.812891  );  46 86 95 88 89 81 78 83 78 83 78 83 78 84 85 61 .3 72 78 485 -1714 -2729 -1300	0.744798 0.611046 0.445719 0.264726 1.000000 0.309010 0.054582 0.203270 0.110604 0.408028 0.297066 0.328615 0.680520 0.613797 0.776709	0.879008 0.963811 0.985494 0.309010 1.000000 0.834926 0.747392 0.309961 0.667050 0.999836 0.403754 0.793624 0.830116	0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0	600196 782031 793025 0.7 793025 0.7 7054582 0.2 7000000 0.5 781100 0.1 7851310 0.6 70821	on_control_rate first 0.63 0.47 0.30 0.1226 0.317 0.1226 0.317 0.12826 0.572 0.05769 0.300 0.52	baron_rate baron_co	868 862 851 028 050 310 248 134 000 620 040
In [81]: Out[81]: In [103  In [104	mid_late_rating	0.625913	1.00   0.95   0.44   0.95   0.73   0.87   0.95   0.87	0618 0000 1654 1654 5719 3811 2031 1118 7338 0862 0316 9953 8974 5738 0197  0.31 0.52 0.32 0.45 0.32 0.69 0.45 0.32 0.69 0.45 0.33 0.68 0.61 0.92 0.33 0.68 0.61 0.92 0.33 0.68 0.61 0.62 0.63 0.63 0.64 0.65 0.63 0.65 0.25 0.66 0.50 0.66 0.66	0.889782 0.951654 1.000000 0.264726 0.985494 0.793025 0.737898 0.361757 0.923619 0.916906 0.333608 0.780189 0.812891  );  46 86 95 88 89 81 78 83 78 83 78 83 78 84 85 61 .3 72 78 485 -1714 -2729 -1300	0.744798 0.611046 0.445719 0.264726 1.000000 0.309010 0.054582 0.203270 0.110604 0.408028 0.297066 0.328615 0.680520 0.613797 0.776709	0.879008 0.963811 0.985494 0.309010 1.000000 0.834926 0.747392 0.309961 0.667050 0.999836 0.403754 0.793624 0.830116	0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0	600196 782031 793025 0.7 793025 0.7 7054582 0.2 7000000 0.5 781100 0.1 7851310 0.6 70821	on_control_rate first 0.63 0.47 0.30 0.1226 0.317 0.1226 0.317 0.12826 0.572 0.05769 0.300 0.52	baron_rate baron_co	868 862 851 028 050 310 248 134 000 620 040
In [102  In [103  In [104  In [104	mid_late_rating	0.625913	1.00   0.95   0.44   0.95   0.73   0.87   0.95   0.87	0618 0000 1654 1654 5719 3811 2031 1118 7338 0862 0316 9953 8974 5738 0197  0.31 0.52 0.32 0.45 0.32 0.69 0.45 0.32 0.69 0.45 0.33 0.68 0.61 0.92 0.33 0.68 0.61 0.92 0.33 0.68 0.61 0.62 0.63 0.63 0.64 0.65 0.63 0.65 0.25 0.66 0.50 0.66 0.66	0.889782 0.951654 1.000000 0.264726 0.985494 0.793025 0.737898 0.361757 0.923619 0.916906 0.333608 0.780189 0.812891  );  46 86 95 88 89 81 78 83 78 83 78 83 78 84 85 61 .3 72 78 485 -1714 -2729 -1300	0.744798 0.611046 0.445719 0.264726 1.000000 0.309010 0.054582 0.203270 0.110604 0.408028 0.297066 0.328615 0.680520 0.613797 0.776709	0.879008 0.963811 0.985494 0.309010 1.000000 0.834926 0.747392 0.309961 0.667050 0.999836 0.403754 0.793624 0.830116	0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0	600196 782031 793025 0.7 793025 0.7 7054582 0.2 7000000 0.5 781100 0.1 7851310 0.6 70821	on_control_rate first 0.63 0.47 0.30 0.1226 0.317 0.1226 0.317 0.12826 0.572 0.05769 0.300 0.52	baron_rate baron_co	868 862 851 028 050 310 248 134 000 620 040
In [102  In [103  In [104  In [104	## wheather there are any team. isnull().sum()  ## wheather there are any team. isnull().sum()  ## ## wheather there are any team. isnull().sum()  ## ## ## wheather there are any team. isnull().sum()  ## ## ## wheather there are any team. isnull().sum()  ## ## ## wheather there are any team. isnull().sum()  ## ## ## ## wheather there are any team. isnull().sum()  ## ## ## ## ## wheather there are any team. isnull().sum()  ## ## ## ## ## ## ## ## ## ## ## ## ##	0.625913	1.00   0.95   0.44   0.95   0.73   0.87   0.95   0.87	0618 0000 1654 1654 5719 3811 2031 1118 7338 0862 0316 9953 8974 5738 0197  0.31 0.52 0.32 0.45 0.32 0.69 0.45 0.32 0.69 0.45 0.33 0.68 0.61 0.92 0.33 0.68 0.61 0.92 0.33 0.68 0.61 0.62 0.63 0.63 0.64 0.65 0.63 0.65 0.25 0.66 0.50 0.66 0.66	0.889782 0.951654 1.000000 0.264726 0.985494 0.793025 0.737898 0.361757 0.923619 0.916906 0.333608 0.780189 0.812891  );  46 86 95 88 89 81 78 83 78 83 78 83 78 84 85 61 .3 72 78 485 -1714 -2729 -1300	0.744798 0.611046 0.445719 0.264726 1.000000 0.309010 0.054582 0.203270 0.110604 0.408028 0.297066 0.328615 0.680520 0.613797 0.776709	0.879008 0.963811 0.985494 0.309010 1.000000 0.834926 0.747392 0.309961 0.667050 0.999836 0.403754 0.793624 0.830116	0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0	600196 782031 793025 0.7 793025 0.7 7054582 0.2 7000000 0.5 781100 0.1 7851310 0.6 70821	on_control_rate first 0.63 0.47 0.30 0.1226 0.317 0.1226 0.317 0.12826 0.572 0.05769 0.300 0.52	baron_rate baron_co	868 862 851 028 050 310 248 134 000 620 040
In [102 In [103 Out [103 In [113 Out [113	mid_late_rating     gold_diff_15     2.211540  turrent_plates_destroyed     iff_therald_rate     first_dragon_rate     dragon_control_rate     first_baron_rate     dragon_control_rate     dragon_con	0.625913	1.00   2	0000	0.889782 0.951654 1.000000 0.264726 0.985494 0.793025 0.737898 0.361757 0.722851 0.923619 0.916906 0.333608 0.780189 0.812891  );  46 3 63 83 1 72 485 -1714 -2729 -1300	0.744798 0.611046 0.445719 0.264726 1.000000 0.309010 0.054582 0.201270 0.110604 0.408028 0.297066 0.328615 0.680520 0.613797 0.776709	0.879008 0.963811 0.985494 0.309010 1.000000 0.834926 0.747392 0.309961 0.667050 0.999836 0.403754 0.793624 0.830116	0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0	600196 782031 793025 0.7 793025 0.7 7054582 0.2 7000000 0.5 781100 0.1 7851310 0.6 70821	on_control_rate first 0.63 0.47 0.30 0.1226 0.317 0.1226 0.317 0.12826 0.572 0.05769 0.300 0.52	baron_rate baron_co	868 862 851 028 050 310 248 134 000 620 040
In [102 In [103 Out [103 Out [113 Out [113	### wind late rating gold_diff_15	0.625913 0.889783 0.744798 0.611046 0.621133 0.879008 0.307809 0.600196 0.485180 0.622714 0.147957 0.276633 0.503821 0.772866 0.667567 0.815031 0.861045 0.950711 0.861045 0.9	1.00   2	0000	0.889782 0.951654 1.000000 0.264726 0.985494 0.793025 0.737898 0.361757 0.722851 0.923619 0.916906 0.333608 0.780189 0.812891  );  46 3 63 83 1 72 485 -1714 -2729 -1300	0.744798 0.611046 0.445719 0.264726 1.000000 0.309010 0.054582 0.201270 0.110604 0.408028 0.297066 0.328615 0.680520 0.613797 0.776709	yed rift_herald 4.0 9.85494 0.309010 1.000000 0.834926 0.747392 0.309961 0.667050 0.999836 0.403754 0.793624 0.830116	d_rate first_c 0.6 0.7 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	600196 782031 793025 0.7 793025 0.7 7054582 0.2 7000000 0.5 781100 0.1 7851310 0.6 70821	on_control_rate first 0.63 0.47 0.30 0.1226 0.317 0.1226 0.317 0.12826 0.572 0.05769 0.300 0.52	baron_rate baron_co	868 862 851 028 050 310 248 134 000 620 040
In [102 In [103 Out [103 In [113 Out [113	### ### ### ### ### ### ### ### ### ##	0.625913	1.00   2	0000	0.889782 0.951654 1.000000 0.264726 0.985494 0.793025 0.737898 0.361757 0.722851 0.923619 0.916906 0.333608 0.780189 0.812891  );  46 3 63 83 1 72 485 -1714 -2729 -1300	0.744798 0.611046 0.445719 0.264726 1.000000 0.309010 0.054582 0.201270 0.110604 0.408028 0.297066 0.328615 0.680520 0.613797 0.776709	yed rift_herald 4.0 9.85494 0.309010 1.000000 0.834926 0.747392 0.309961 0.667050 0.999836 0.403754 0.793624 0.830116	d_rate first_c 0.6 0.7 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	600196 782031 793025 0.7 793025 0.7 7054582 0.2 7000000 0.5 781100 0.1 7851310 0.6 70821	on_control_rate first 0.63 0.47 0.30 0.1226 0.317 0.1226 0.317 0.12826 0.572 0.05769 0.300 0.52	baron_rate baron_co	868 862 851 028 050 310 248 134 000 620 040
In [102 In [103 Out [103 In [113 Out [113	### ### ### ### ### ### ### ### ### ##	0.625913	1.00   0.95   0.44   0.72   0.72   0.73   0.73   0.73   0.73   0.73   0.73   0.74   0.75   0.72   0.75   0.71   0.75   0.71   0.75   0.71   0.75	0618	0.889782 0.951654 1.000000 0.264726 0.985494 0.793025 0.737898 0.3361757 0.722851 0.916906 0.333608 0.780189 0.812891  ); 46	0.744798 0.611046 0.445719 0.264726 1.000000 0.309010 0.054582 0.201270 0.110604 0.408028 0.297066 0.328615 0.680520 0.613797 0.776709	yed rift_herald 4.0 9.85494 0.309010 1.000000 0.834926 0.747392 0.309961 0.667050 0.999836 0.403754 0.793624 0.830116	d_rate first_c 0.6 0.7 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	600196 782031 793025 0.7 793025 0.7 7054582 0.2 7000000 0.5 781100 0.1 7851310 0.6 70821	on_control_rate first 0.63 0.47 0.30 0.1226 0.317 0.1226 0.317 0.12826 0.572 0.05769 0.300 0.52	baron_rate baron_co	868 862 851 028 050 310 248 134 000 620 040
In [102 In [103 Out [103 In [113 Out [113 Out [224 Out [224	mid_late_rating gold_dirt_15 cold=dirt_short gold_dirt_short dirth_erat(_dirth_art) dirth_e	0.625913 0.889782 0.744798 0.611046 0.621133 0.879008 0.307809 0.600190 0.485180 0.622714 0.147957 0.276633 0.503821 0.772866 0.664388 0.871701 0.687675 0.870737 0.448812 0.552032 0.667567 0.815031 0.861045 0.950713 0.861045 0.950713 0.861045 0.950713 0.861045 0.950713 0.70 0.85 0.85 0.80 0.80 0.80 0.80 0.80 0.8	1.00   0.00	0618 07005 1654 5719 3811 2031 1718 87338 0862 0016 9953 874 5738 00197  8019 8019 8019 8019 8019 8019 8019 801	0.889782 0.951654 1.000000 0.264726 0.985494 0.793025 0.737898 0.361757 0.722851 0.923619 0.916906 0.333608 0.780189 0.812891  );  46	0.744798 0.611046 0.445719 0.264726 1.000000 0.309010 0.054582 0.201270 0.110604 0.408028 0.297066 0.328615 0.680520 0.613797 0.776709	yed rift_herald 4.0 9.85494 0.309010 1.000000 0.834926 0.747392 0.309961 0.667050 0.999836 0.403754 0.793624 0.830116	d_rate first_c 0.6 0.7 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	600196 782031 793025 0.7 793025 0.7 7054582 0.2 7000000 0.5 781100 0.1 7851310 0.6 70821	on_control_rate first 0.63 0.47 0.30 0.1226 0.317 0.1226 0.317 0.12826 0.572 0.05769 0.300 0.52	baron_rate baron_co	868 862 851 028 050 310 248 134 000 620 040
In [102 In [103 In [104 In [113 Out [113 Out [224 Out [224	mid_late_rating     pold diff 15     pold diff 16     pol	0.625913	1.00	0618 07005 1654 5719 3811 2031 1718 87338 0862 0016 9953 874 5738 00197  8019 8019 8019 8019 8019 8019 8019 801	0.889782 0.951654 1.000000 0.264726 0.985494 0.793025 0.737898 0.361757 0.722851 0.923619 0.916906 0.333608 0.780189 0.812891  );  46	0.744798 0.611046 0.445719 0.264726 1.000000 0.309010 0.054582 0.201270 0.110604 0.408028 0.297066 0.328615 0.680520 0.613797 0.776709	yed rift_herald 4.0 9.85494 0.309010 1.000000 0.834926 0.747392 0.309961 0.667050 0.999836 0.403754 0.793624 0.830116	d_rate first_c 0.6 0.7 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	Signature drag  Signature drag	on_control_rate first 0.63 0.47 0.30 0.1226 0.317 0.1226 0.317 0.12826 0.572 0.05769 0.300 0.52	baron_rate baron_co	868 862 851 028 050 310 248 134 000 620 040
In [102 In [103 In [104 In [113 Out [113 Out [224 Out [224	mid_late_rating gold_uilf_15  urrent_plates_destroyed infert_drap()_atcome dragon_control_rate first_dragon_nate baren_control_rate lane_control jungle_control sol_control_rate lane_control jungle_control sol_control_rate lane_control sol_control_rate lane_control_rate lane_control sol_control_rate lane_control_rate lane_control_rate lane_control_rate lane_control_rate lane_control_rate lane_control_rate lane_control_rate lane_control_rate lane_rating_control_rate lane_control_rate lane_rating_control_rate lane_control_rate lane_rating_control_rate lane_rating_control_rate lane_rating_control_rate lane_rating_control_rate lane_rating_control_rate lane_rating_control_rate lane_rating_control_rate lane_rating_control_rate lane_control_lane_rating_control_rate lane_control_lane_rating_control_rate lane_rating_control_rate lane_rating_con	0.625913   0.89378;     0.744798   0.611040     0.021133   0.87900;     0.0485180   0.62712     0.0485180   0.72503;     0.064368   0.87170;     0.064368   0.87170;     0.064368   0.87170;     0.064368   0.87170;     0.064368   0.87170;     0.064368   0.87170;     0.064368   0.87170;     0.064368   0.87170;     0.064368   0.95071;     0.06401   0.071   0.071   0.071     0.06401   0.071   0.071   0.071     0.071   0.071   0.071   0.071   0.071     0.072   0.073   0.071   0.071   0.071   0.071     0.073   0.071   0.071   0.071   0.071   0.071     0.073   0.071	1.00 0.94 0.96 0.97 0.72 0.73 0.73 0.73 0.73 0.73 0.74 0.74 0.75 0.74 0.75 0.75 0.71 0.72 0.73 0.74 0.75 0.75 0.75 0.76 0.77 0.78 0.77 0.78 0.78 0.78 0.78 0.78	0018 0000 1654 5719 3811 2031 1118 7338 0862 3917 3917 3919 3917 3919 3919 3919 3919	0.889782 0.951654 1.000000 0.264726 0.985494 0.793025 0.737898 0.361757 0.722851 0.923619 0.916906 0.333608 0.780189 0.812891  );  46	0.744798 0.044799 0.140709 0.309010 0.054582 0.203270 0.110604 0.408028 0.297066 0.386152 0.681520 0.6776709  mt_plates_destroit	yed rift_herald 4.0 9.85494 0.309010 1.000000 0.834926 0.747392 0.309961 0.667050 0.999836 0.403754 0.793624 0.830116	d_rate first_c 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	Signature drag  Signature drag	on_control_rate first 0.63 0.47 0.30 0.1226 0.317 0.1226 0.317 0.12826 0.572 0.05769 0.300 0.52	baron_rate baron_co	868 862 851 028 050 310 248 134 000 620 040
In [102 In [103 In [104 In [113 Out [113 Out [224 Out [224	### Billion   ##	0.625913	1.00	0018 0000 1654 5719 3811 2031 1118 7338 0862 3917 3917 3919 3917 3919 3919 3919 3919	0.889782 0.951654 1.0000000 0.264726 0.985494 0.793025 0.737898 0.361757 0.722851 0.923619 0.916906 0.333608 0.780189 0.812891  10  10  10  11  12  13  14  15  16  17  18  18  18  19  19  10  10  11  10  11  11  12  13  14  15  16  17  18  18  18  18  18  19  19  10  10  11  10  11  11  12  13  14  15  16  17  18  18  18  18  18  18  18  18  19  19	0.744798 0.044799 0.140709 0.309010 0.054582 0.203270 0.110604 0.408028 0.297066 0.386152 0.681520 0.6776709  mt_plates_destroit	0.879008 0.963811 0.963814 0.0309010 0.1.000000 0.334926 0.0.39933 0.403754 0.93624 0.0.30116 0.12 0.30116 0.30116 0.30116 0.30116 0.30116 0.30116 0.30116 0.30116 0.30116	d_rate first_c 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	ingon_rate drag  ingon_	on_control_rate first 0.63 0.47 0.30 0.1226 0.317 0.1226 0.317 0.12826 0.572 0.05769 0.300 0.52	baron_rate baron_co	868 862 851 028 050 310 248 134 000 620 040
In [102 In [103 In [104 In [113 Out [113 Out [224 Out [224	### ### ### ### ### ### ### ### ### ##	0.625913 0.897903 0.744798 0.611046 0.621133 0.879003 0.0618180 0.22714 0.14932 0.52724 0.14932 0.52032 0.6647567 0.815033 0.861045 0.950713  "monospace") ) 20(12,8) "monospace") ) 22(12,8) 22(12,8) 22(12,8) 22(12,8) 22(12,8) 22(12,8) 22(12,8) 22(12,8) 22(12,8) 22(12,8) 22(12,8) 22(12,8) 22(13,10) 22(14,0) 23(14,0) 24(15,10) 25(16,10)	## ## ## ## ## ## ## ## ## ## ## ## ##	0018 0000 1654 5719 3811 2031 1118 7338 0862 3917 3917 3919 3917 3919 3919 3919 3919	0.889782 0.951654 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.0000000 1.0000000 1.0000000 1.00000000	0.744798 0.044799 0.140709 0.309010 0.054582 0.203270 0.110604 0.408028 0.297066 0.386152 0.681520 0.6776709  mt_plates_destroit	0.879008 0.963811 0.963814 0.0309010 0.1.000000 0.334926 0.0.39933 0.403754 0.93624 0.0.30116 0.12 0.30116 0.30116 0.30116 0.30116 0.30116 0.30116 0.30116 0.30116 0.30116	## Final Control of Co	ingon_rate drag  ingon_	on_control_rate first 0.63 0.47 0.30 0.1226 0.317 0.1226 0.317 0.12826 0.572 0.05769 0.300 0.52	baron_rate	868 862 851 028 050 310 248 134 000 620 040
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In [102 In [103 In [113 In [124 In [224 In [244 In [244	### ### ### ### ### ### ### ### ### ##	0.625913 0.889782 0.744798 0.6101040 0.621133 0.879006 0.04878180 0.6227803 0.0503821 0.772806 0.0503821 0.752803 0.064388 0.871701 0.687675 0.870737 0.448812 0.552033 0.861045 0.950713 0.8610	## 1.00	1	0.889782 0.951654 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.0000000 1.0000000 1.0000000 1.00000000	0.744798 0.044799 0.140709 0.309010 0.054582 0.203270 0.110604 0.408028 0.297066 0.386152 0.681520 0.6776709  mt_plates_destroit	yed rift herald 0.963811 0.9834940 0.000000 0.0034926 0.047392 0.009936 0.0403754 0.0830116 0.0830116 0.0830116	## Final Control of Co	ingon_rate drag  ingon_	on_control_rate first 0.63 0.47 0.30 0.1226 0.317 0.1226 0.317 0.12826 0.572 0.05769 0.300 0.52	baron_rate	868 862 851 028 050 310 248 134 000 620 040
In [102 In [104 In [104 In [113 In [224 In [231 In [244 In [244	### OF PRINCIPLE   1995	0.025913 0.889782 0.744788 0.61040 0.621133 0.379008 0.037809 0.602140 0.0485180 0.602214 0.0503821 0.772862 0.064388 0.871707 0.0648675 0.81503 0.064675 0.81503 0.064675 0.81503 0.861045 0.950713 0.861045 0.95	## 1.00	1	0.889782 0.951654 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.0000000 1.0000000 1.0000000 1.00000000	0.744798 0.044799 0.140709 0.309010 0.054582 0.203270 0.110604 0.408028 0.297066 0.386152 0.681520 0.6776709  mt_plates_destroit	yed rift herald 0.963811 0.9834940 0.000000 0.0034926 0.047392 0.009936 0.0403754 0.0830116 0.0830116 0.0830116	## Final Control of Co	ingon_rate drag  ingon_	on_control_rate first 0.63 0.47 0.30 0.1226 0.317 0.1226 0.317 0.12826 0.572 0.05769 0.300 0.52	baron_rate	868 862 851 028 050 310 248 134 000 620 040
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In [102 In [104 In [104 In [113 In [224 In [231 In [244 In [244	mode definition Children  burnet_claided_read of Children  first_design_control Children  first_design_control control read  basen_control read  basen_control read  basen_control control read  basen_control read  control read  basen_control read  basen_control read  basen_control read  control r	0.625913	## 1.00	1	0.889782 0.951654 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.0000000 1.0000000 1.0000000 1.0000000 1.00000000	0.744798 0.044799 0.140709 0.309010 0.054582 0.203270 0.110604 0.408028 0.297066 0.386152 0.681520 0.6776709  mt_plates_destroit	yed rift herald 0.963811 0.9834940 0.000000 0.0034926 0.047392 0.009936 0.0403754 0.0830116 0.0830116 0.0830116	## Final Control of Co	ingon_rate drag  ingon_	on_control_rate first 0.63 0.47 0.30 0.1226 0.317 0.1226 0.317 0.12826 0.572 0.05769 0.300 0.52	baron_rate	868 862 851 028 050 310 248 134 000 620 040
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In [102 In [103 In [104 In [213 In [224 In [244 In [244	mid-lete_rating burest_prison_control_rate into deading_seq_control_rate into deading_seq_contro	### A Provided Head of the contract of the con	1.00	0018 0000 1654	0.889782 0.95164 1.000000 0.264726 0.91690 0.376787 0.72251 0.92519 0.93690 0.333608 0.780189 0.812891  3	0.744798 0.611046 0.445719 0.264726 1.000000 0.309010 0.054582 0.21270 0.110604 0.292766 0.328615 0.680520 0.613797 0.776709	yed rift herald (1.000000 (1.00000 (1.00000 (1.00000 (1.00000 (1.00000 (1.00000 (1.0	d_rate first_c 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	ragon_rate drag	on_control_rate   first	_baron_rate	868 862 851 028 050 310 248 400 620 033 239 040
In [102 In [103 In [104 In [213 In [224 In [244 In [244	mid-lete_rating burest_prison_control_rate into deading_seq_control_rate into deading_seq_contro	### A Provided Head of the contract of the con	1.00	0018 0000 1654	0.889782 0.95164 1.000000 0.264726 0.91690 0.376787 0.72251 0.92519 0.93690 0.333608 0.780189 0.812891  3	0.744798 0.611046 0.445719 0.264726 1.000000 0.309010 0.054582 0.21270 0.110604 0.292766 0.328615 0.680520 0.613797 0.776709	yed rift herald (1.000000 (1.00000 (1.00000 (1.00000 (1.00000 (1.00000 (1.00000 (1.0	d_rate first_c 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	ragon_rate drag	on_control_rate   first	_baron_rate	868 862 851 028 050 310 248 400 620 033 239 040
In [102 In [103 In [104 In [213 In [224 In [244 In [244	modules care yet a control points december 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30	0.022513 0.889722 0.0427818 0.0107820 0.0427818 0.0107820 0.0427818 0.000024 0.485180 0.02271 0.0485180 0.02271 0.0485180 0.02271 0.0485180 0.05271 0.053781 0.70727 0.0485180 0.05273 0.053818 0	1.00	## 1	0.889782 0.951654 1.000000 0.264726 0.973928 0.361757 0.722851 0.923619 0.918906 0.338018 0.812891  1.0  1.0  1.0  1.0  1.0  1.0  1.0  1	0.744798 0.611046 0.445719 0.264726 1.000000 0.309010 0.054582 0.21270 0.110604 0.292766 0.328615 0.680520 0.613797 0.776709	yed rift herald (1.000000 (1.00000 (1.00000 (1.00000 (1.00000 (1.00000 (1.00000 (1.0	win not only and a second and a	ragon_rate drag	on_control_rate   first	_baron_rate	868 862 851 028 031 040 040