Small Validation	MaxIter	regParam	Rank	MAP	ndcgAt	running time	RMSE		
	5	0.1	50	0.00167	0.02085	640.87600	0.79696		
	10	0.1	50	0.00480	0.04180	29.33300	0.79900		
	15	0.1	50	0.00559	0.04310	37.59400	0.79914		
	20	0.1	50	0.00640	0.04600	38.52600	0.79850		
	25	0.1	50	0.00670	0.04700	76.00000	0.79800		
Small Validation	MaxIter	regParam	Rank	MAP	ndcgAt	running time	RMSE		log10 regParam
	15	0.005	50	0.00649	0.05367	38.48580			-2.30103
	15	0.01	50	0.00874	0.06262	35.55529	1.07000		-2.00000
	15	0.05	50	0.01352	0.07948	35.83438	0.85290		-1.30103
	15	0.1	50	0.00559	0.04310	39.97169	0.79914		-1.00000
	15	0.5	50	0.00002	0.00068	51.77677	0.95240		-0.30103
	15	1	50	0.00001	0.00019	115.68439			0.00000
Small Validation	MaxIter	regParam	Rank	MAP	ndcgAt	running time	RMSE		
	10	0.01	10	0.00067	0.00920	26.36000	0.94903		
	10	0.01	11	0.00056	0.00937	24.02000			
	10	0.01	150	0.01498	0.08580	116.60000	1.10718		
	10	0.01	200	0.01650	0.09237	295.92600	1.13434		
	10	0.01	300	0.01819	0.09800	424.54000	1.16800		
Small Validation	MaxIter	regParam	Rank	MAP	ndcgAt	running time			
	5	0.005	50	0.00408	0.03798	24.35709			
	5	0.01	50	0.00411	0.03675	57.09945			
	5	0.05	50	0.00657	0.04837	31.53086			
	5	0.1	50	0.00167	0.02085	28.57569			
	5	0.5	50	0.00002	0.00067	107.53787			

Large Validation	MaxIter	regParam	Rank	MAP	ndcgAt	running time		log10 regParam
	5	0.01	150	$1.426*10^{-5}$	0.000205	2840.557000		
	10	0.01	150	0.000428	0.003340	4651.936000		
	11	0.01	150	0.000654	0.004814	5256.203900		
	15	0.01	150	0.001195	0.009930	6285.215800		
	20	0.01	150	0.001789	0.013740	8651.210000		
	25	0.01	150	0.009100	0.047660	10526.646000		
Large Validation	MaxIter	regParam	Rank	MAP	ndcgAt	running time		log10 regParam
	10	0.007	150	0.001439	0.008700	5115.480000		-2.15490196
	10	0.008	150	0.001696	0.010130	5485.280000		-2.096910013
	10	0.009	150	0.001940	0.011509	4560.967091		-2.045757491
	10	0.01	150	0.002141	0.012740	4876.110000		-2
	10	0.05	150	0.002108	0.020088	3934.740000		-1.301029996
	10	0.1	150	0.000034	0.000693	3334.187515		-1
	10	1	150	0.000000	0.000002	2691.841097		0
Large Validation	MaxIter	regParam	Rank	MAP	ndcgAt	running time		
	10	0.01	50	0.000024	0.000436	1695.732043		
	10	0.01	100	0.000420	0.003600	2435.000000		
	10	0.01	150	0.002141	0.012740	4876.110000		
	10	0.01	200	0.002740	0.015727	8076.243458		
	10	0.01	300	0.003962	0.022766	21947.776700		
	10	0.01	500	0.002243	0.015833	78110.000000		
	25	0.05	250	0.008632	0.056172	30383.536860		