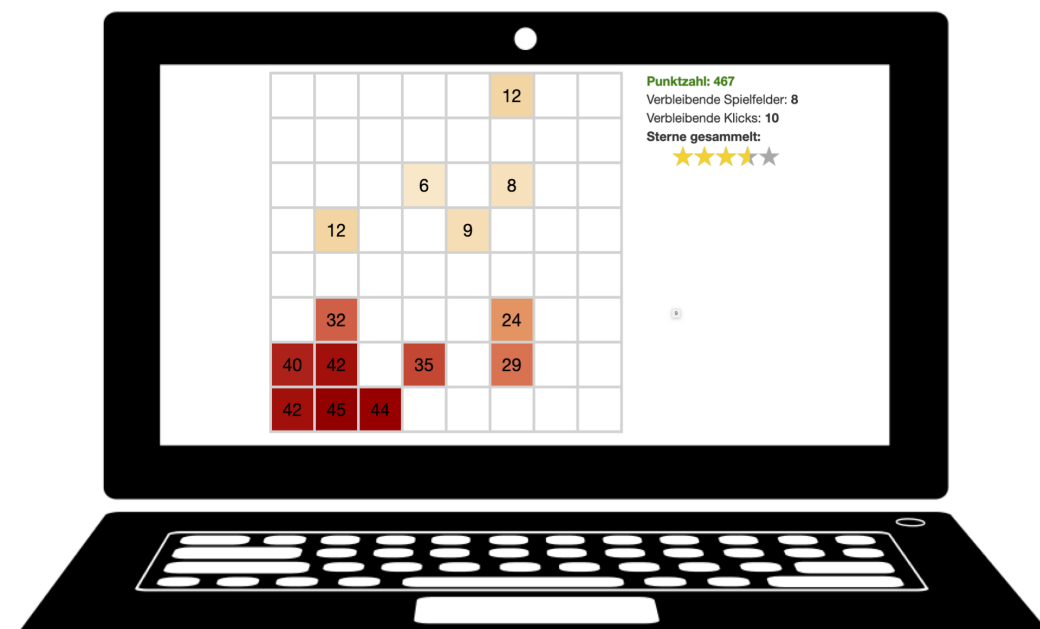
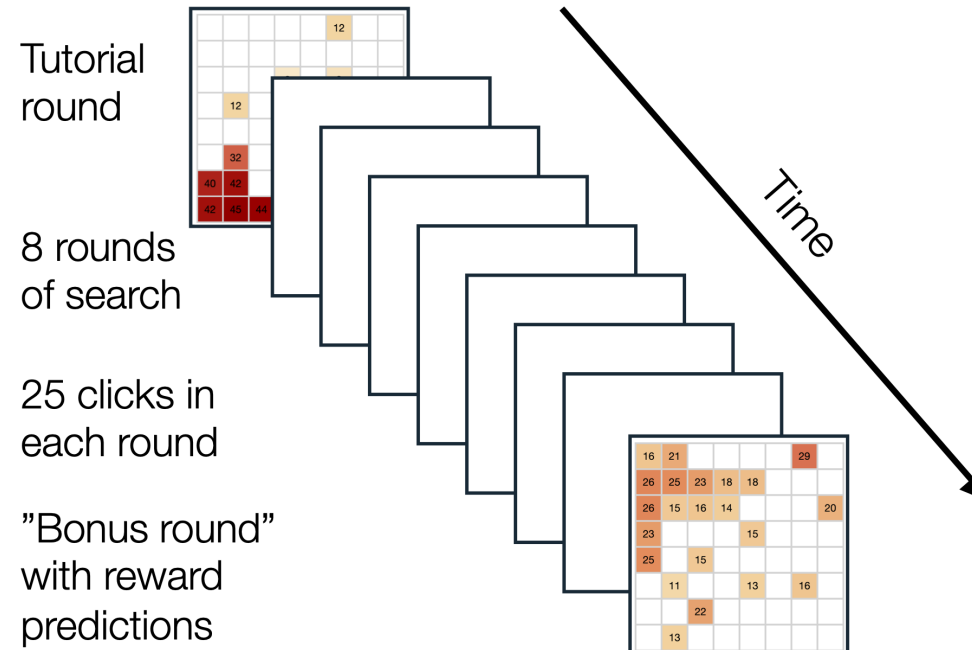


# a Experiment and design

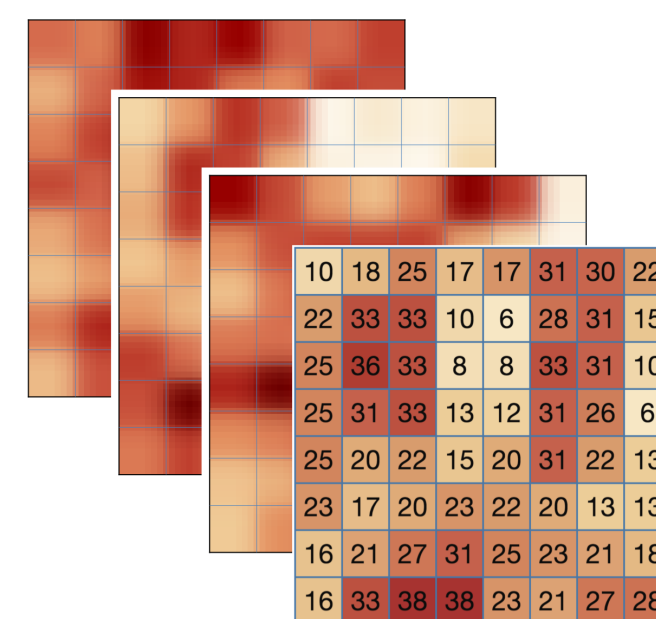
Task



Procedure

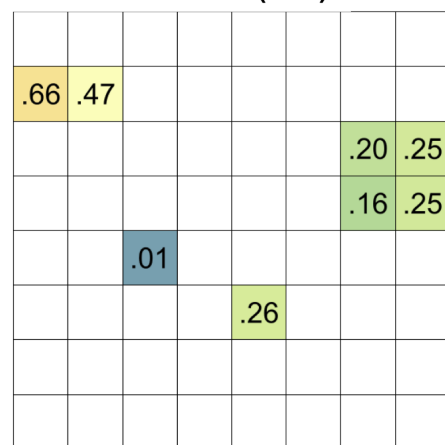


Environments

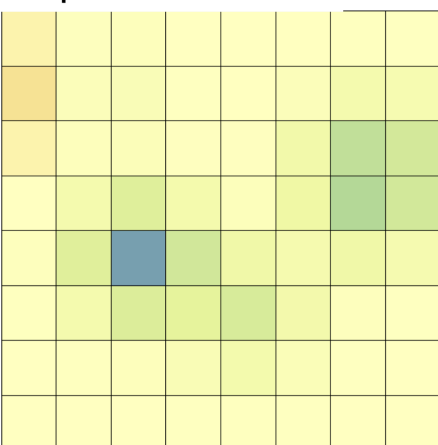


# b Computational GP-UCB model

Observations (t=8)



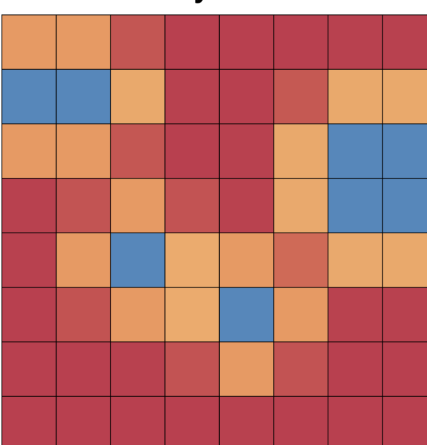
Expected rewards



$\mu(\mathbf{x})$

1.00  
0.75  
0.50  
0.25  
0.00

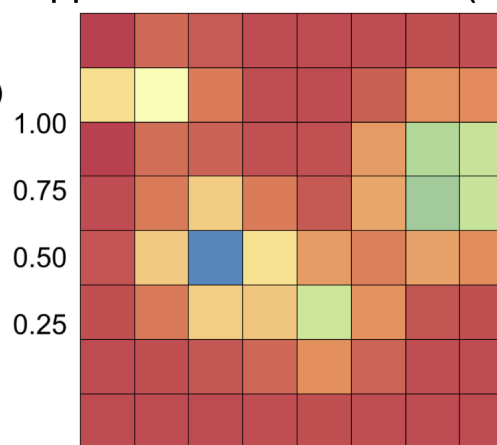
Uncertainty



$\sigma(\mathbf{x})$

1.00  
0.75  
0.50  
0.25

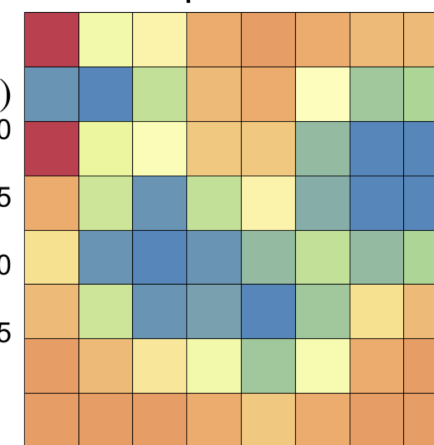
Upper Confidence Bound (UCB)



$UCB(\mathbf{x})$

1.00  
0.75  
0.50  
0.25

Softmax predictions



$p(\mathbf{x})$

0.03  
0.02  
0.01  
0.00

Generalization  $\lambda$       Exploration bonus  $\beta$       Random temperature  $\tau$