





Opponent: Trout

Color: White

Sense ---- :

No capture

Sense c7 :



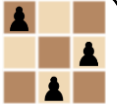
No capture

Sense f5 :



No capture

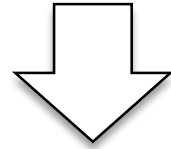
Sense d6 :



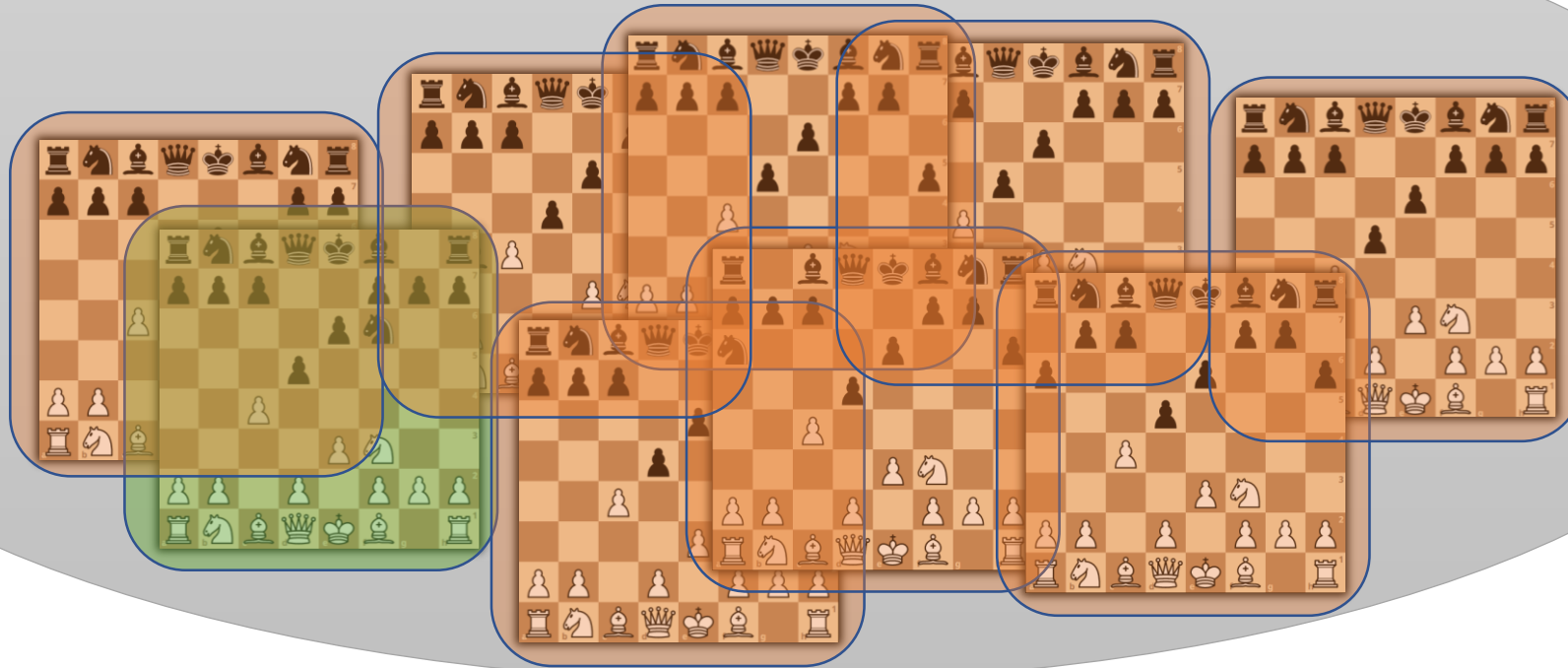
Move e3 : ✓

Move c4 : ✓

Move Nf3: ✓



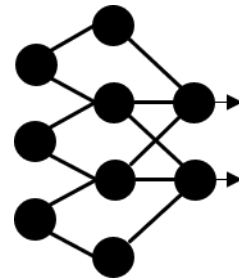
Information Set



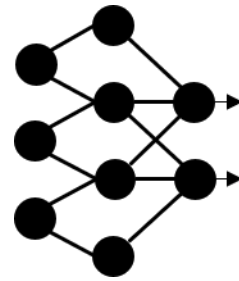
$$Loss = \text{relu}(d_p - d_n + 1)$$



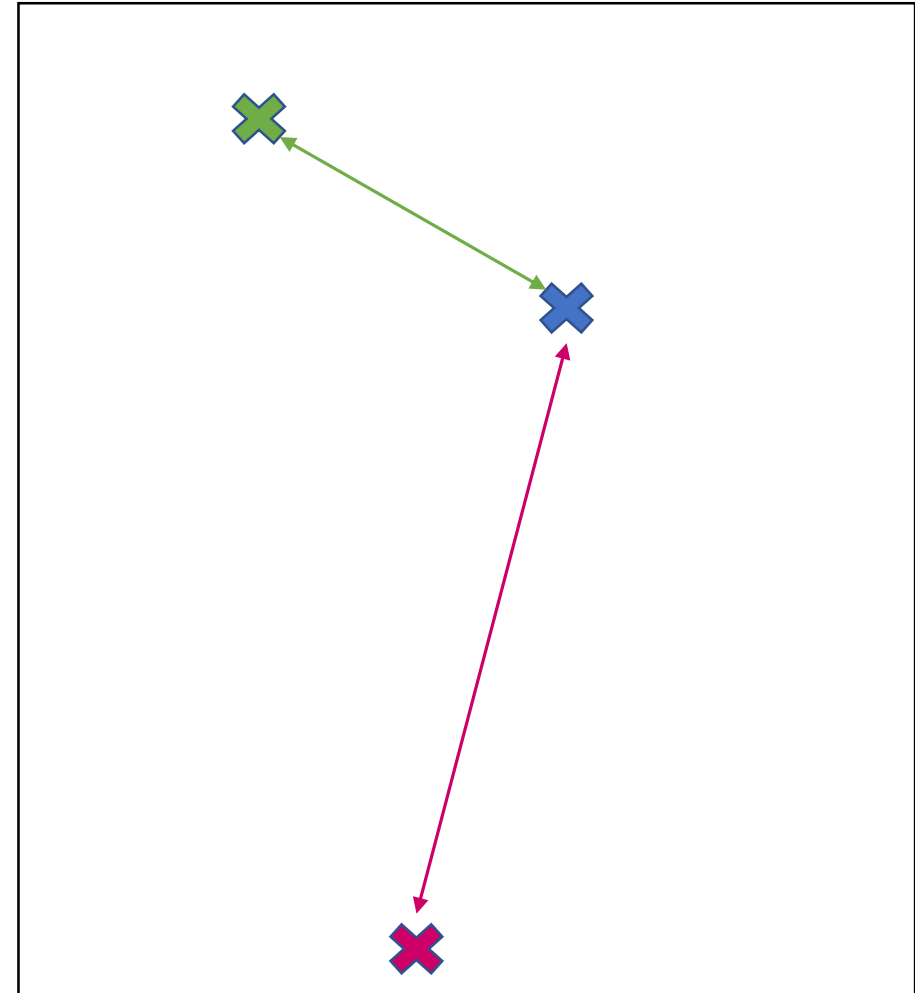
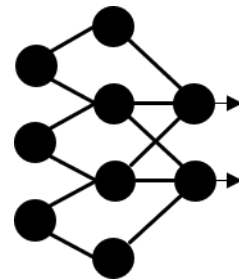
Anchor



Positive



Negative

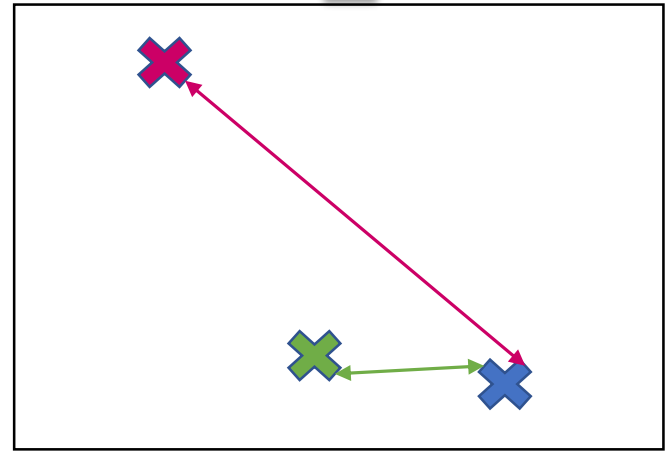
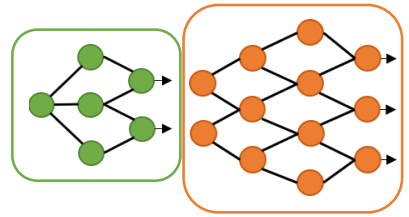


- Board encoding
- Observation encoding
- Siamese Network

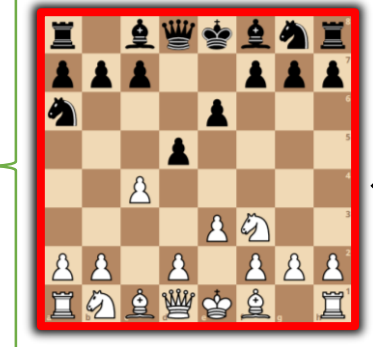
$$Loss = \text{relu}(d_p - d_n + 1)$$



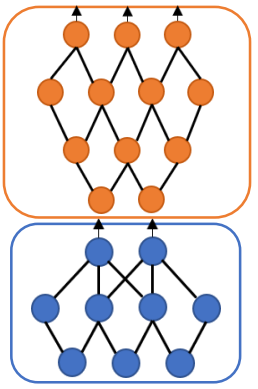
True board



Set of wrong boards



Sample wrong board

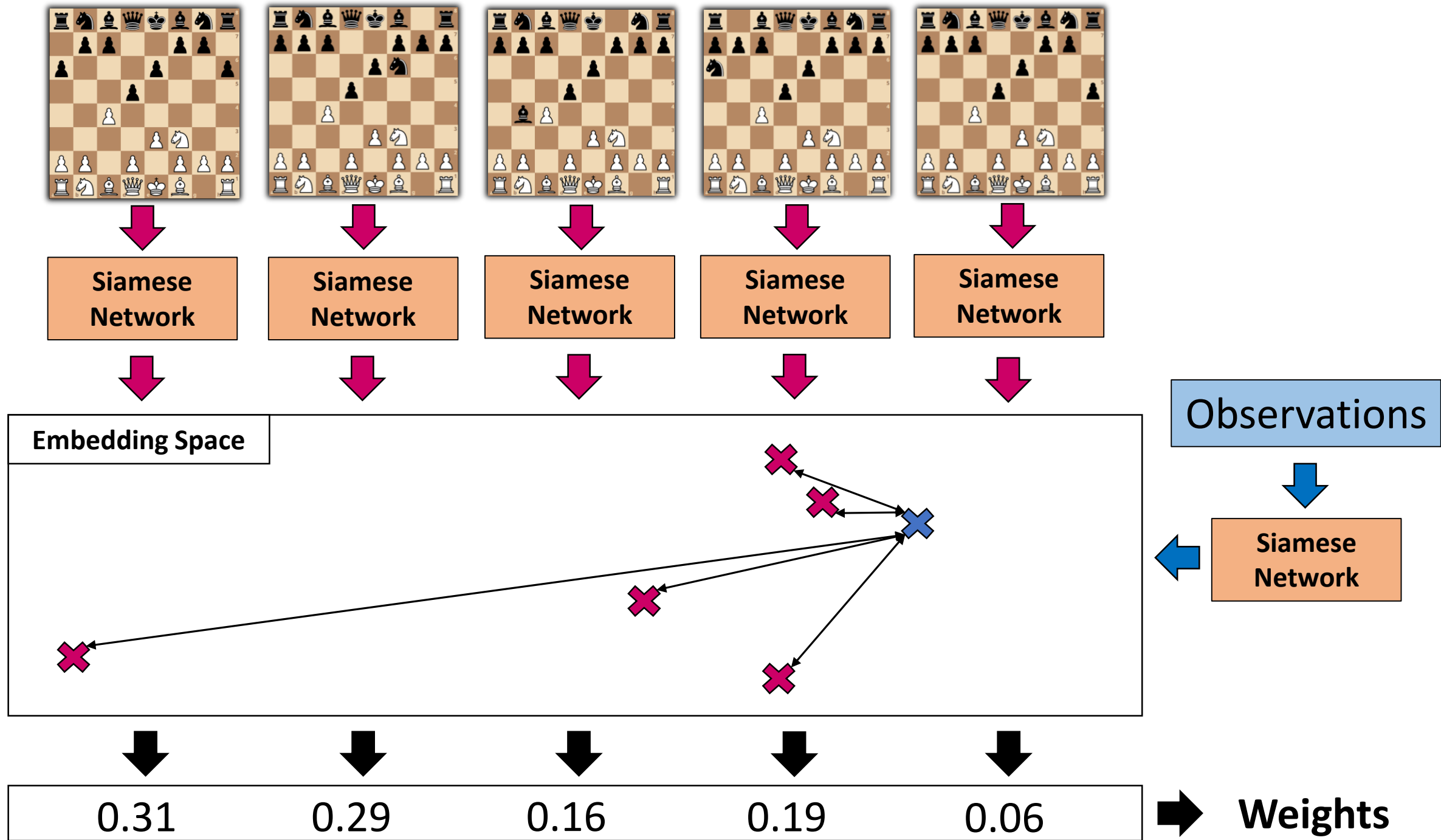


Observations

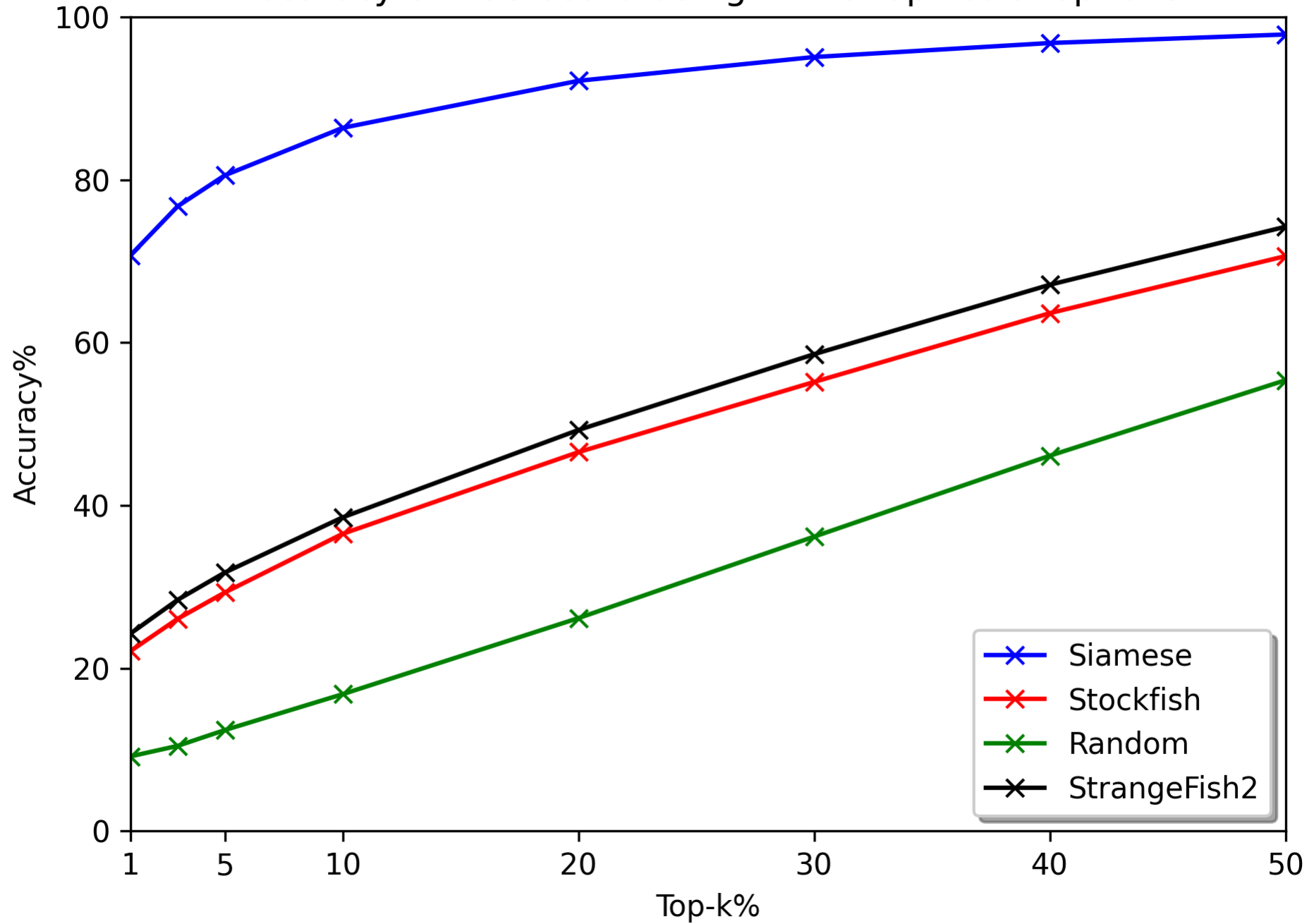
Opponent: Trout

Color: White

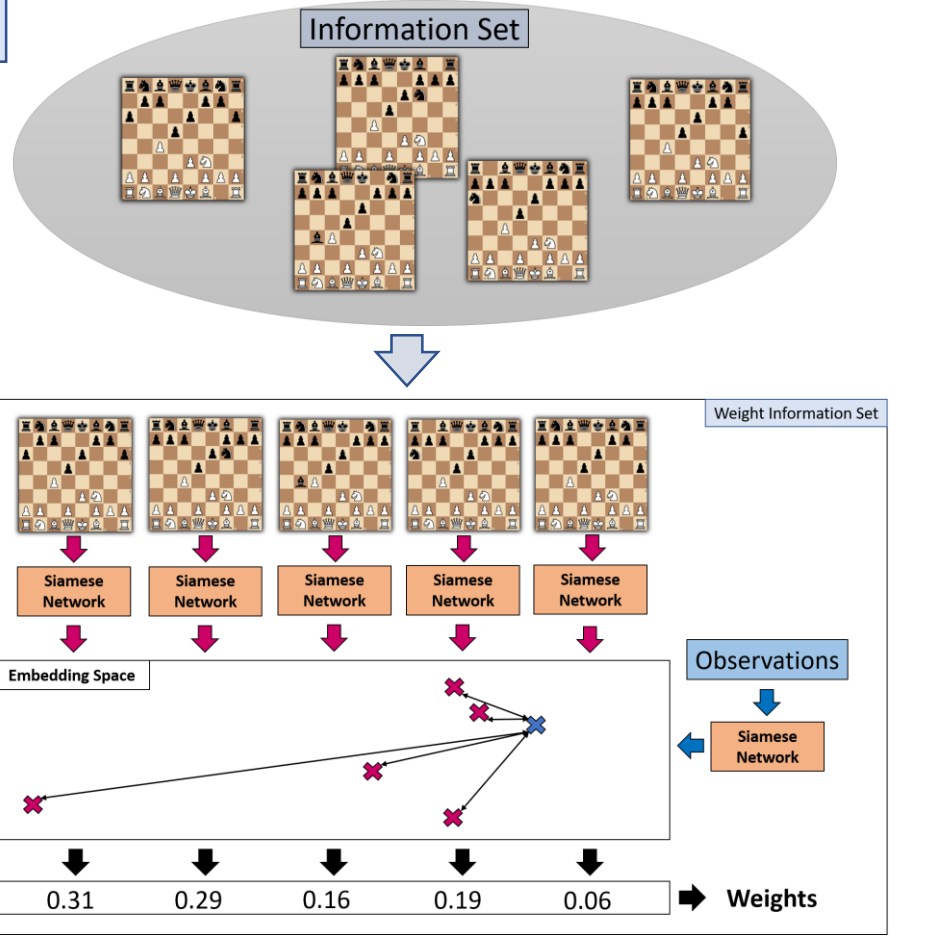
Sense ---- :	No capture	Sense c7 :	No capture	Sense f5 :	No capture	Sense d6 :
Move e3 : ✓		Move c4 : ✓		Move Nf3: ✓		



Accuracy of true board being in the top-k% of options



Sense

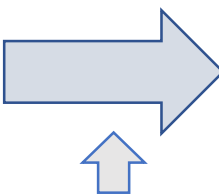


Information Gain

0.22	0.22	0.16	0.24	0.31	0.48	0.48	0.33
0.22	0.22	0.52	0.15	0.31	0.48	0.48	0.33
0.16	0.16	0.47	0.13	0.31	0.24	0.25	0.25
0.47	0.47	0.29	0	0	0	0.25	0.25
0.29	0.29	0.29	0	0	0	0.19	0.19
0.29	0.29	0.29	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0

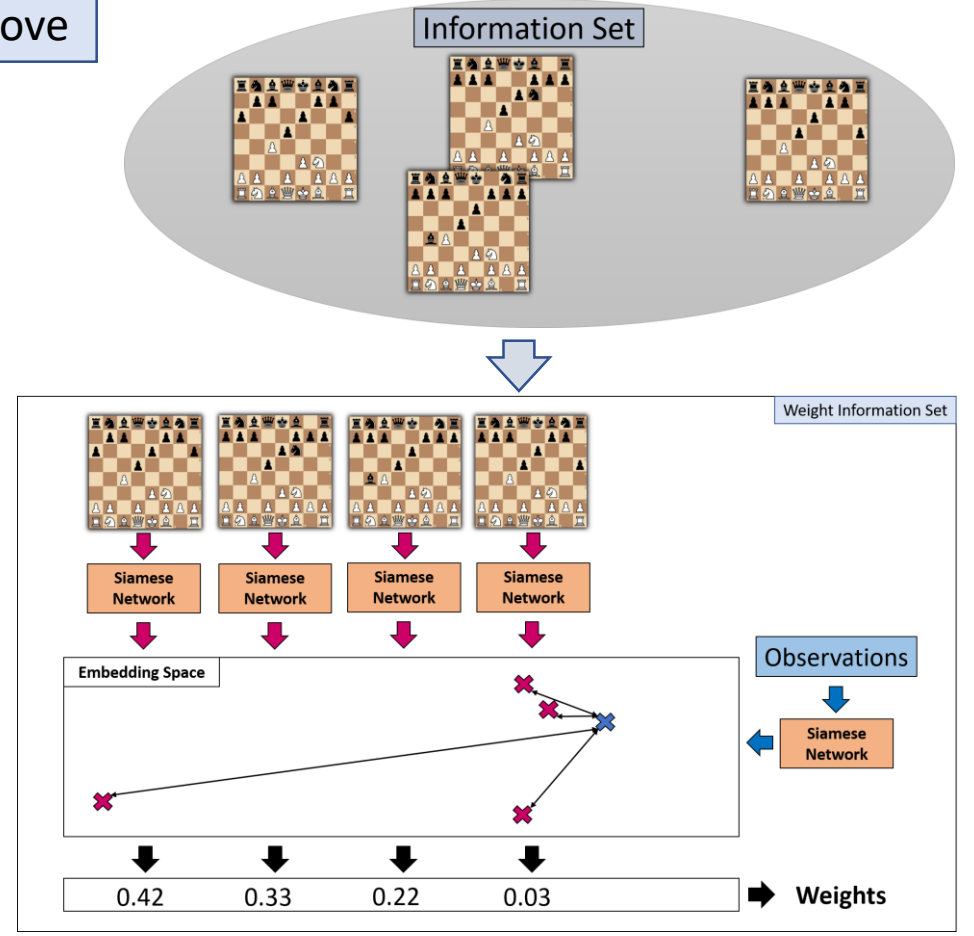
Sense

c7



Result

Move



Move evaluation

Evaluations	Move	Weight of board				Overall evaluation
		0.42	0.33	0.22	0.03	
	b2	0.51	0.51	0.53	0.57	0.519259406
	Qd4	0.47	0.46	0.57	0.54	0.490726701
	d4	0.50	0.51	0.00	0.63	0.398548743

b2

Move

Sense weighting

Board selection

Uniform

Stockfish

Siamese

Random

Stockfish

Siamese

ELO

✓

✓

1197

✓

✓

1253

✓

✓

1204

✓

✓

1419

✓

✓

1534

