

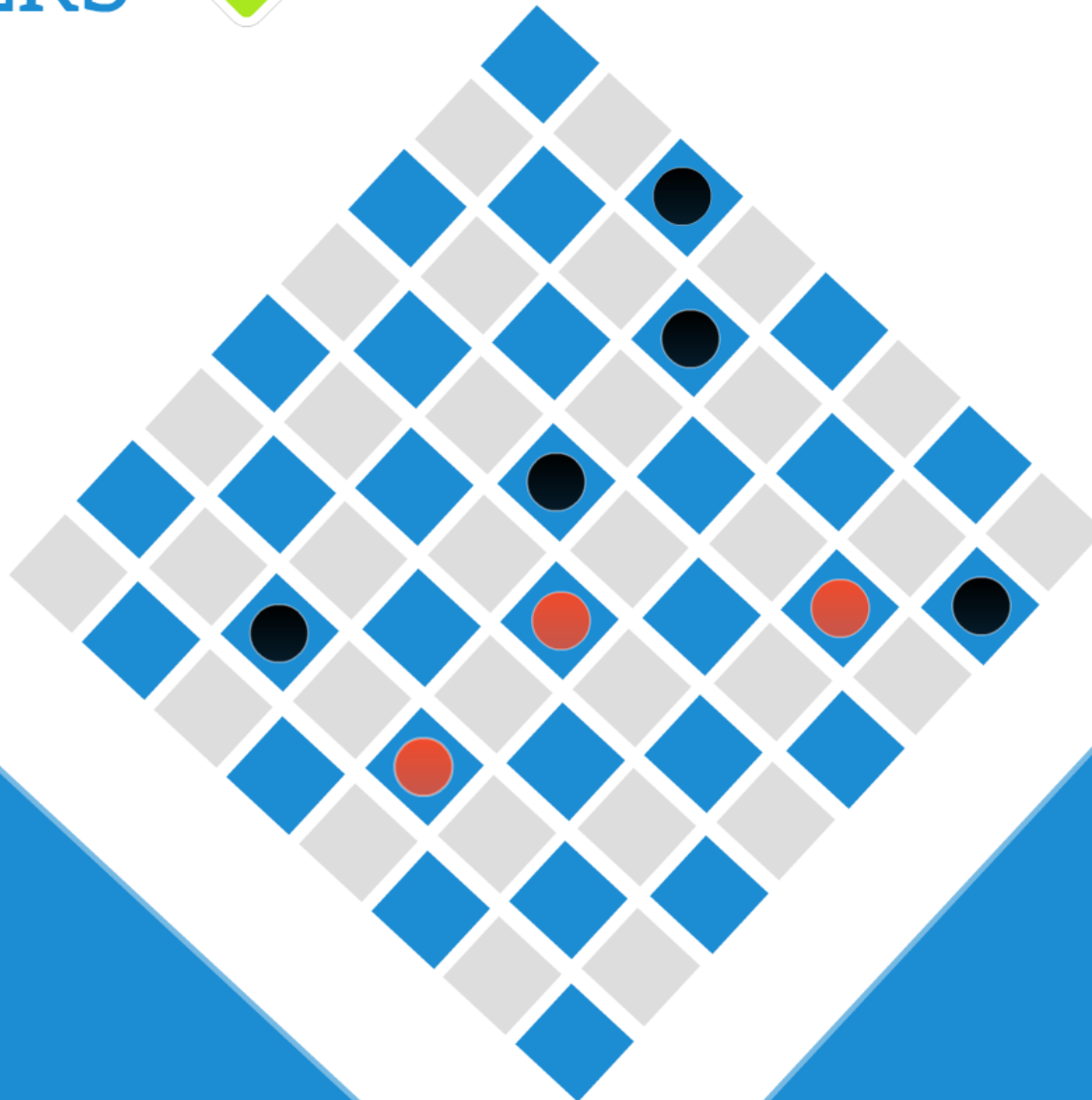




CHECKERS



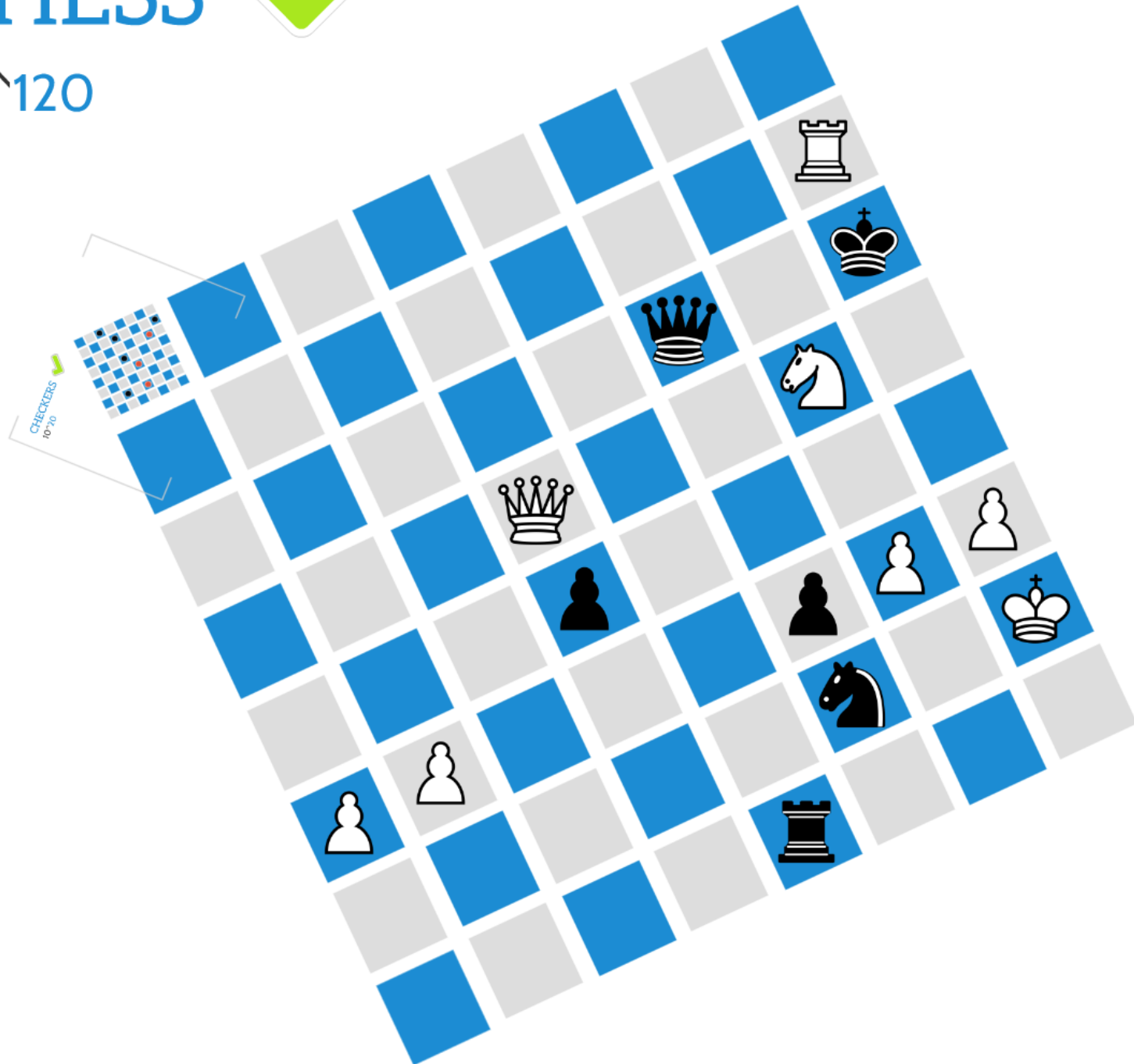
10^{20}



CHESS

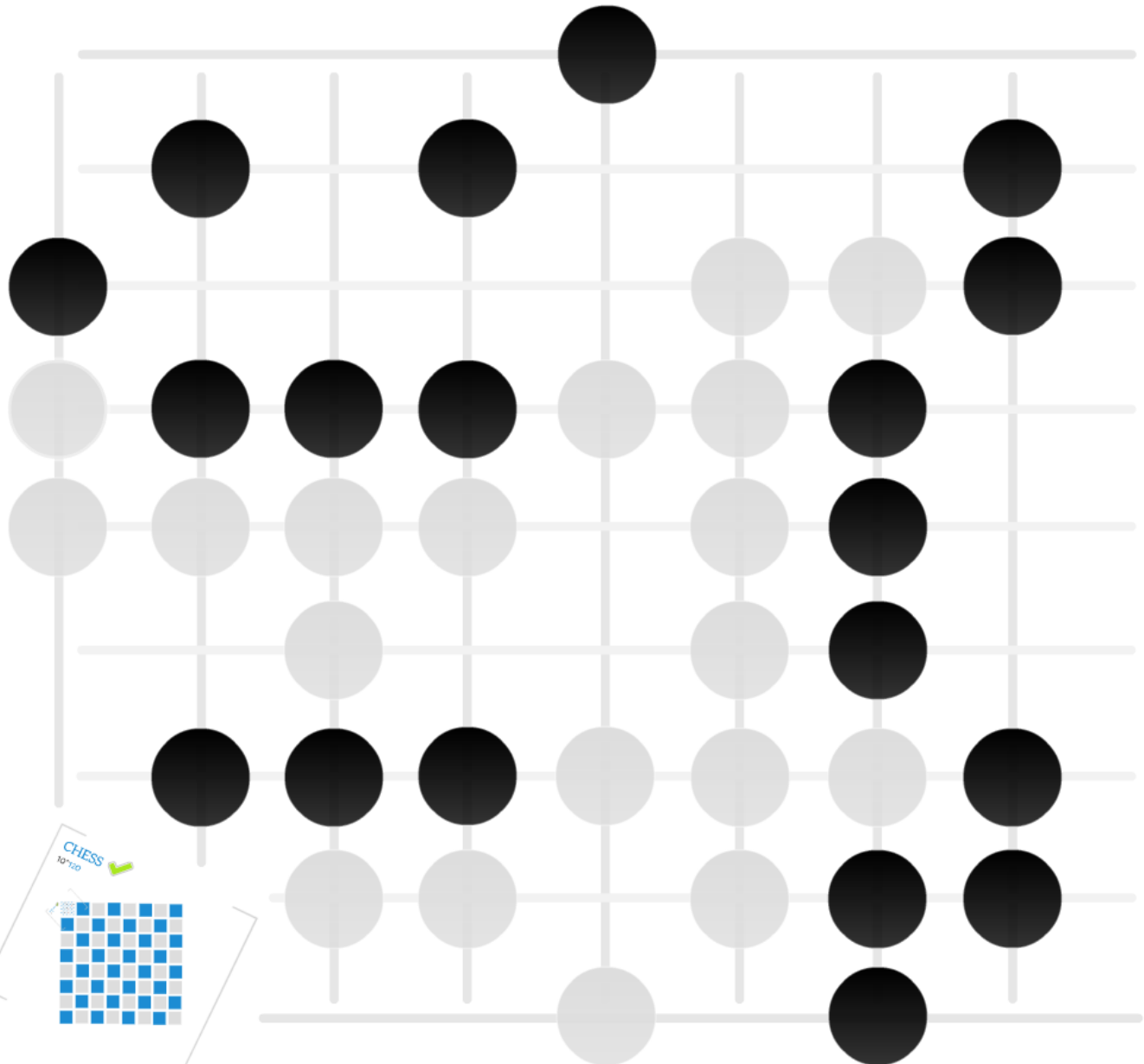


10^{120}

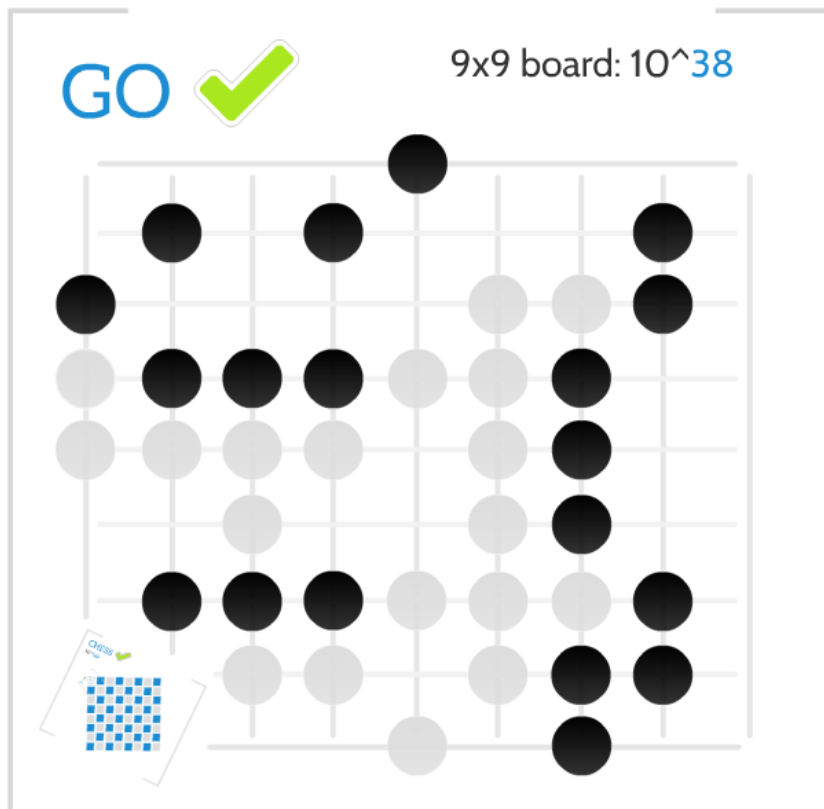


GO 

9x9 board: 10^{38}

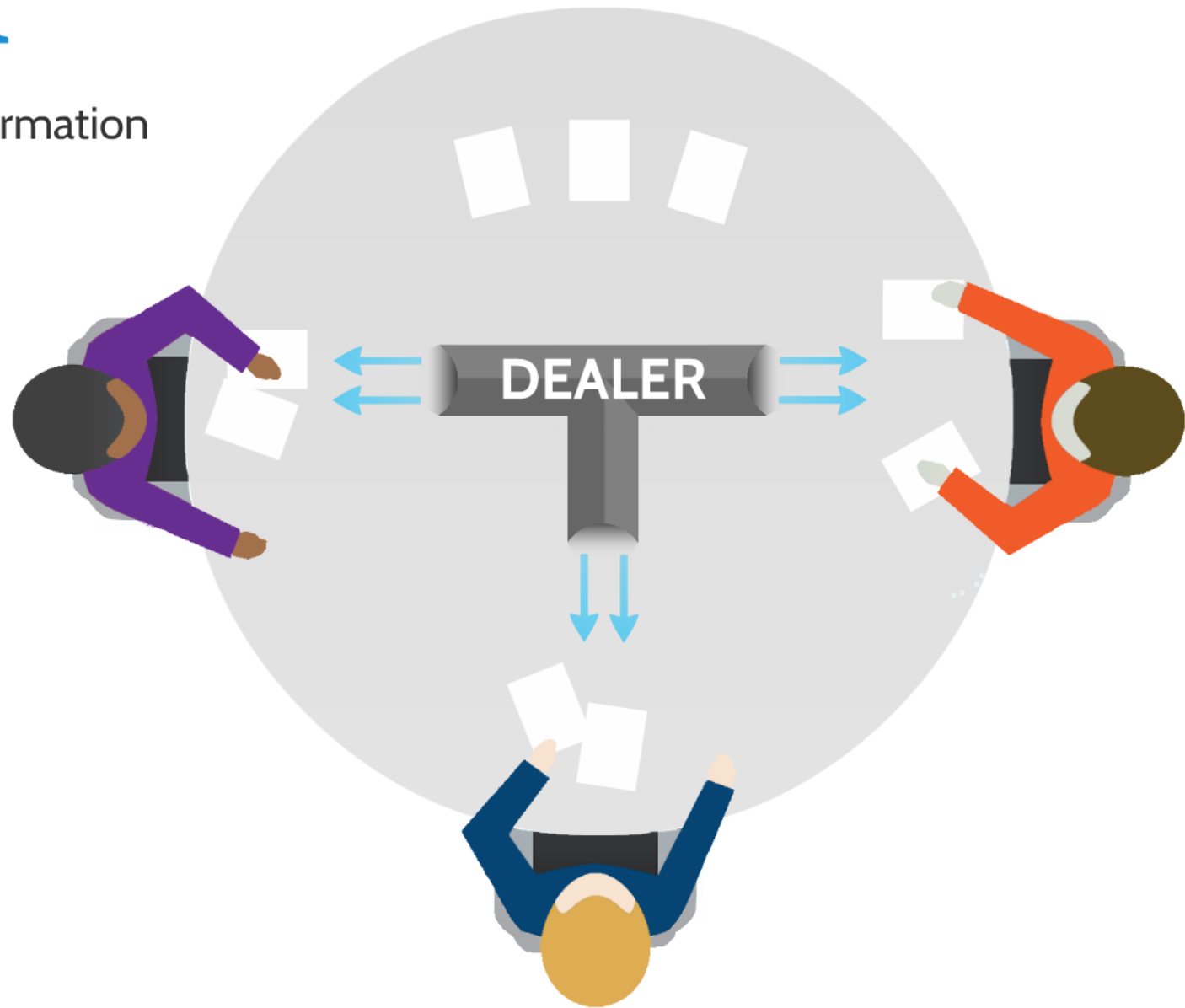


! but standard boards are 19x19,
with 10^{761} possible positions

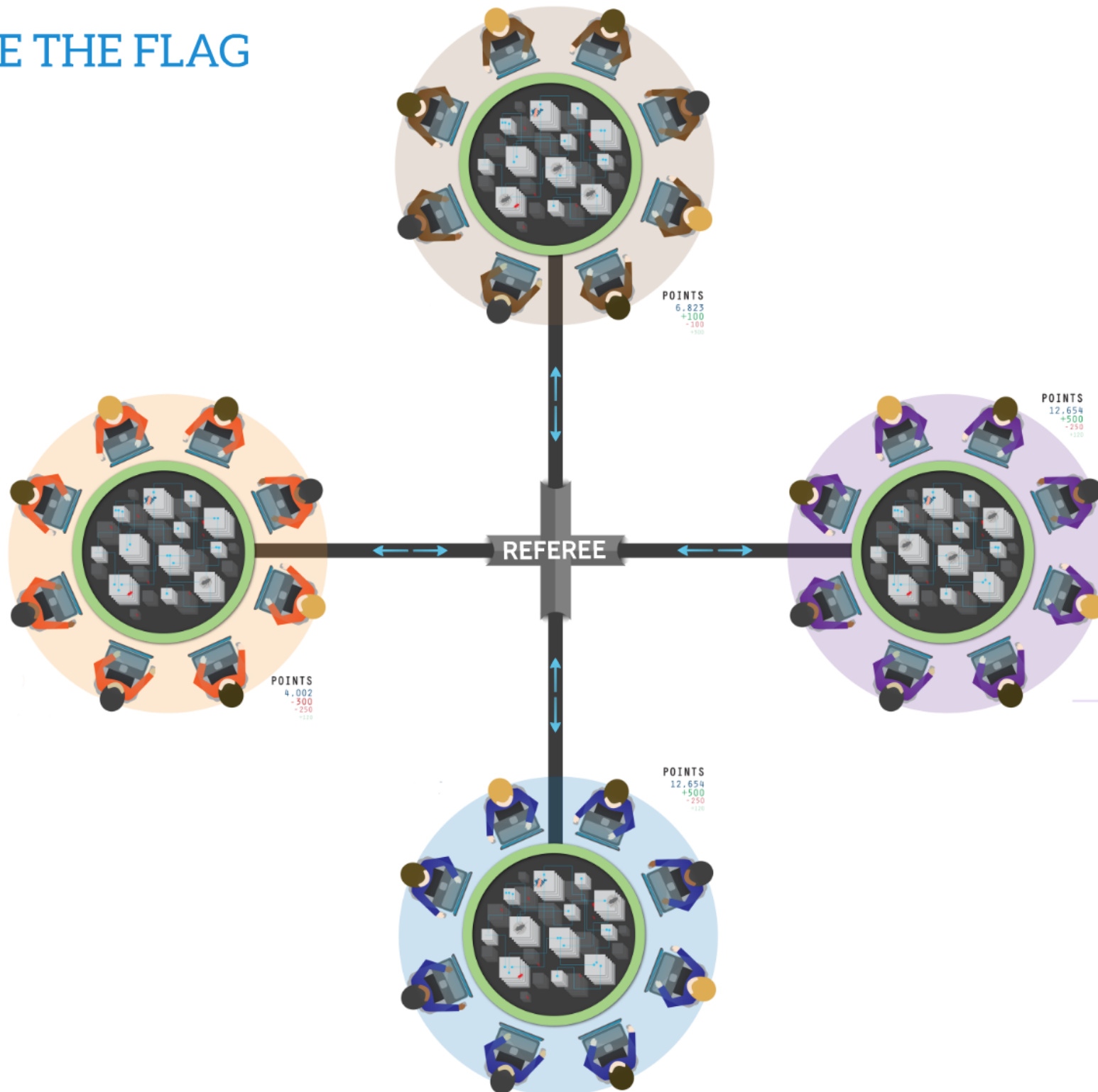


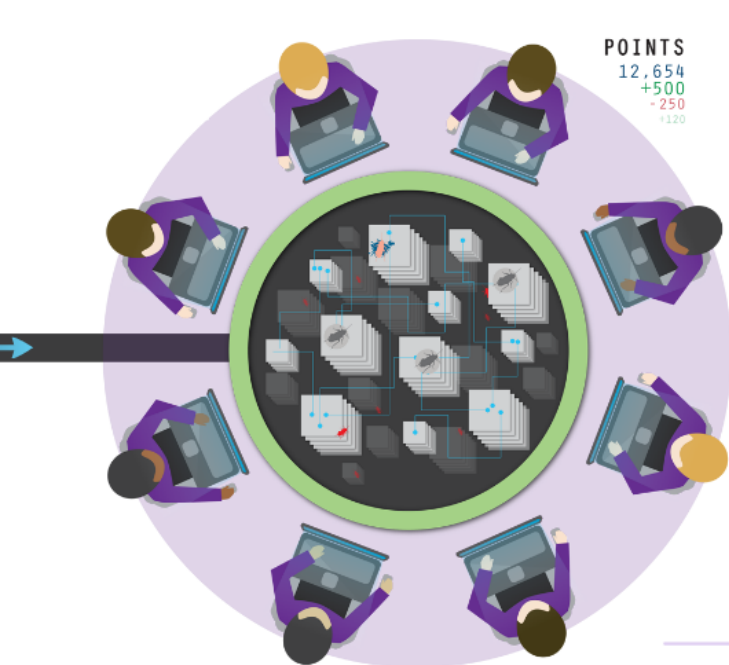
POKER

- Incomplete information
- Multi-opponent
- Non-zero-sum



CAPTURE THE FLAG





SECURITY

Keep Flags

✓	✓	✗	✓	✓	✓
✓	✓	✓	✓	✗	✗
✗	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓
✓	✓	✗	✓	✓	✓
✓	✗	✓	✓	✗	✗
✓	✓	✓	✓	✓	✓
✗	✓	✓	✓	✓	✓



AVAILABILITY

Don't Break Software

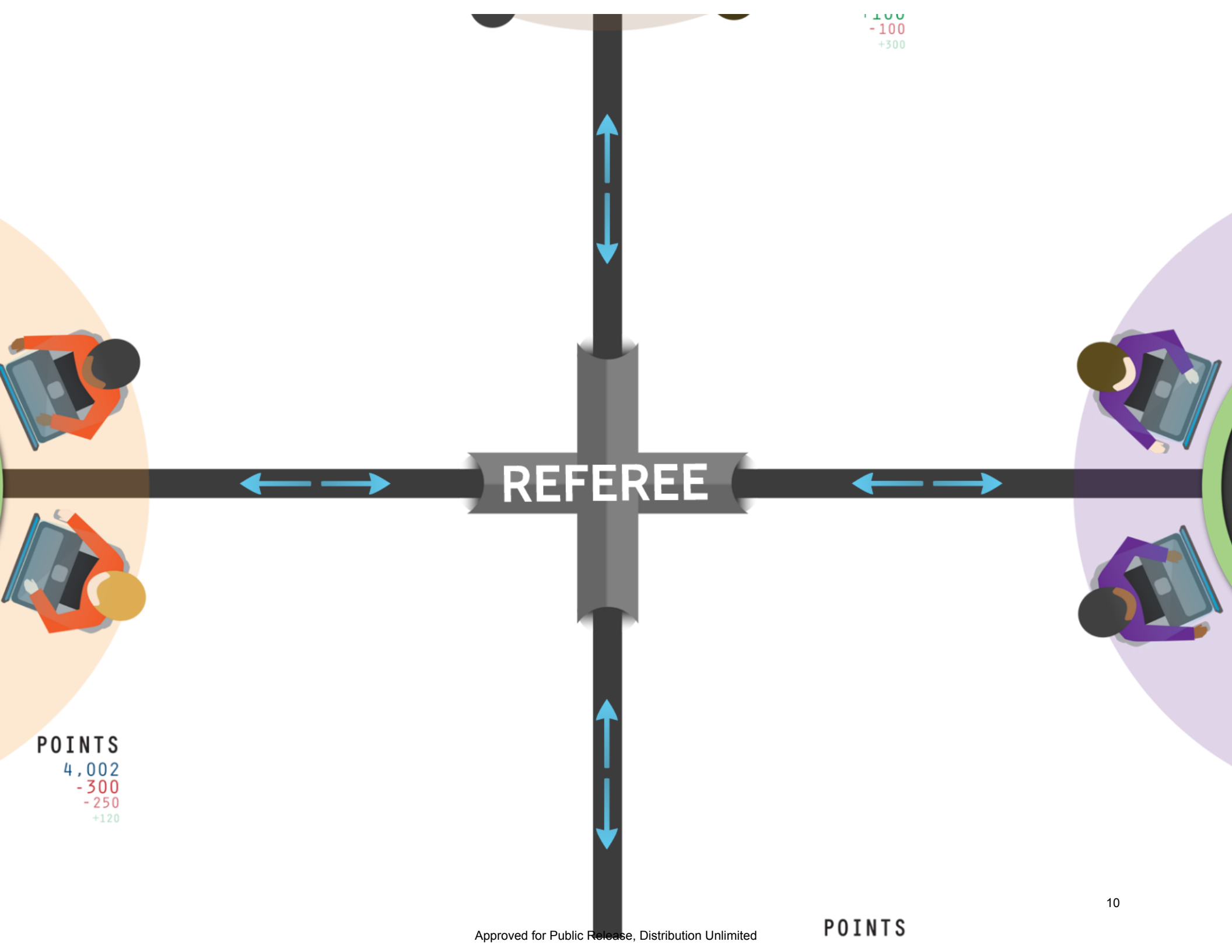
✓	✓	✓	✓	✓	✗
✗	✗	✗	✓	✓	✓
✓	✓	✓	✗	✓	✓
✓	✓	✗	✗	✓	✗
✗	✗	✓	✓	✓	✓
✓	✓	✓	✗	✓	✓



EVALUATION

Take Flags

✗	✗	✗	✗	✗	✗
✗	✗	✗		✗	
✗		✗			

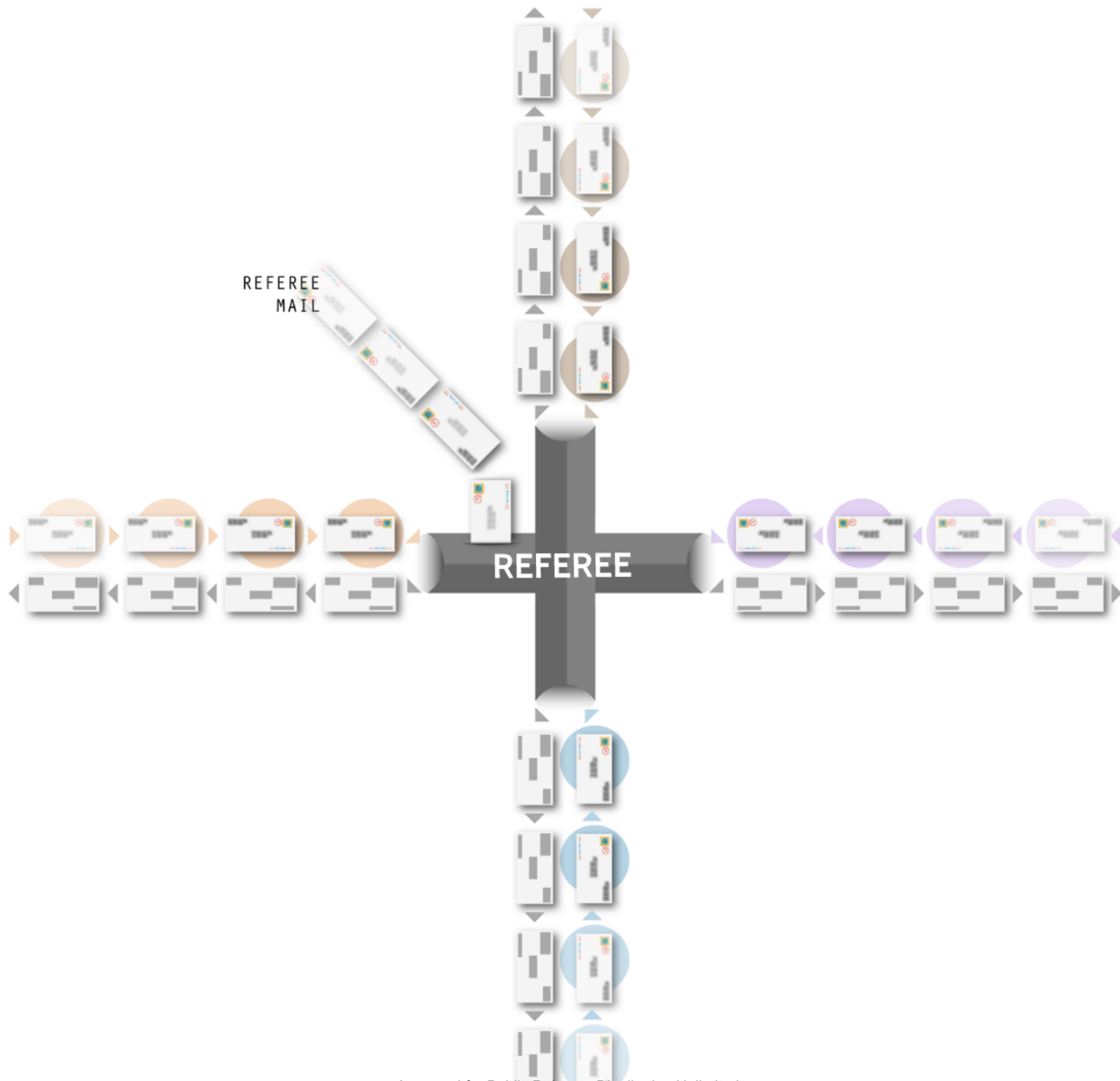


POINTS
4,002
-300
-250
+120

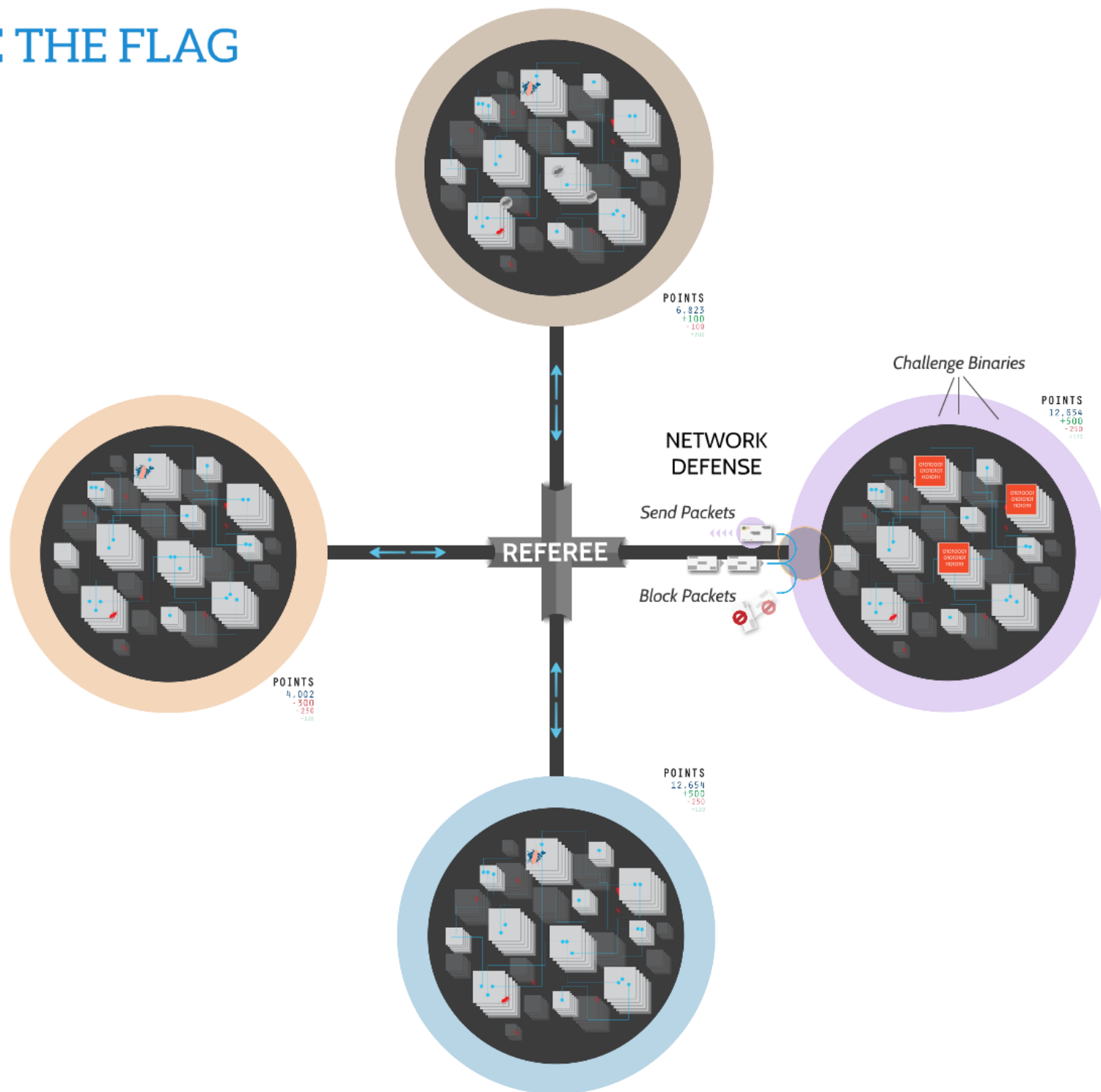
+100
-100
+300

REFEREE

POINTS



CAPTURE THE FLAG



REVERSE ENGI

[illegible]

POINTS
6,823
+100
-100
+300

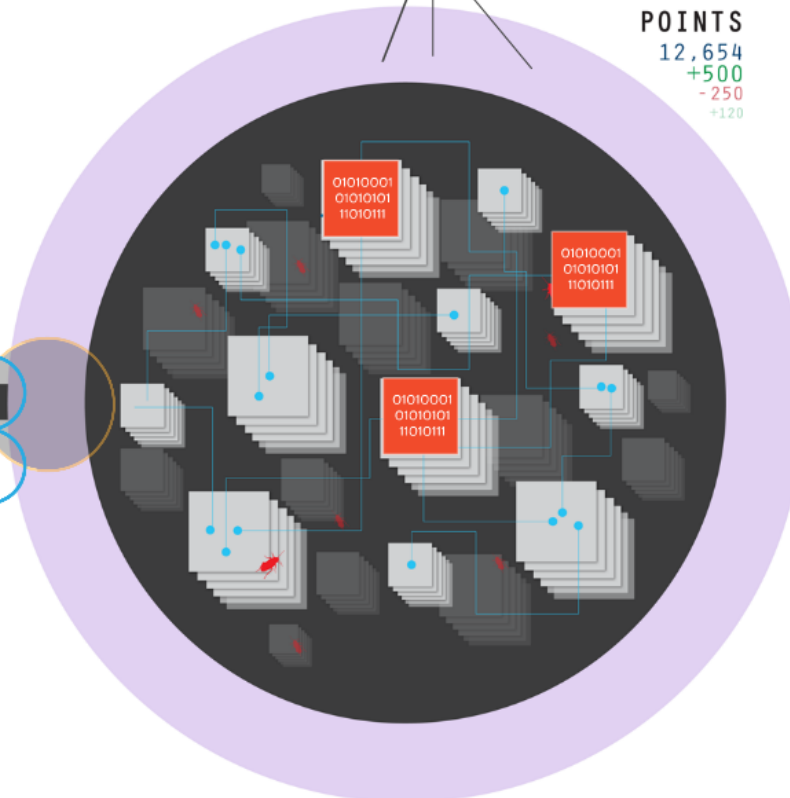
Challenge Binaries

POINTS
12,654
+500
-250
+120

NETWORK DEFENSE

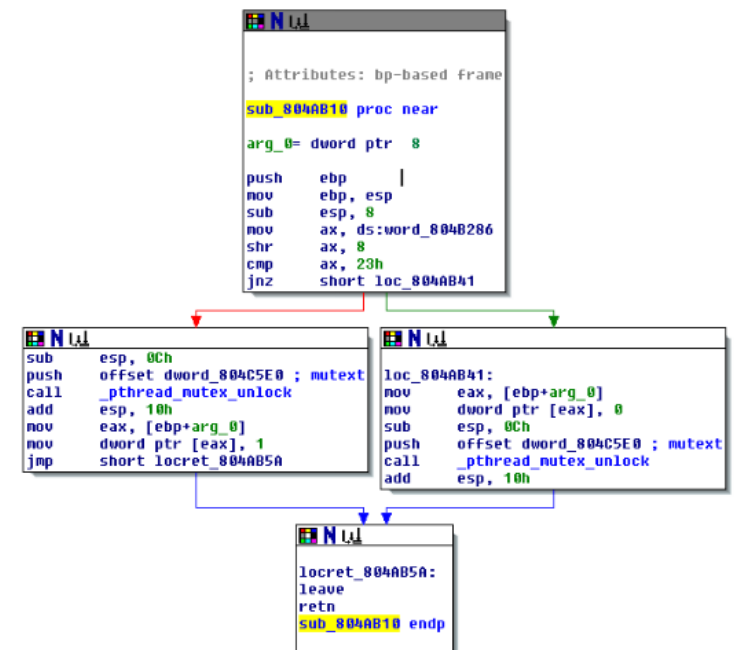
Send Packets

Block Packets

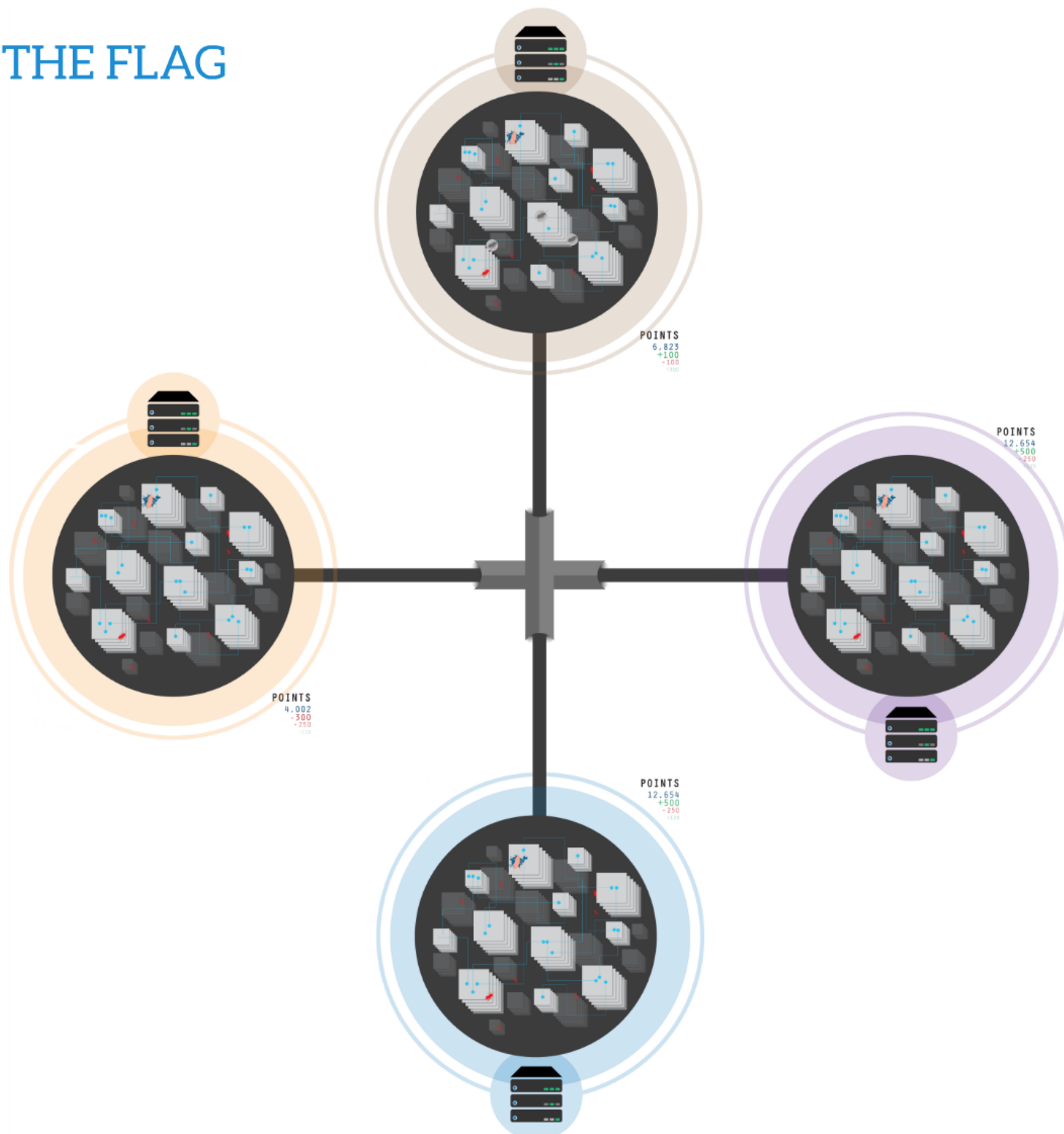


POINTS
12,654
+500
-250
+120

REVERSE ENGINEERING



CAPTURE THE FLAG



[HTTPS://GITHUB.COM/CYBERGRANDCHALLENGE/](https://github.com/cybergrandchallenge/)

[HTTPS://REPO.CYBERGRANDCHALLENGE.COM/](https://repo.cybergrandchallenge.com/)



Pittsburgh, PA

ForAllSecure



Deep Red

Arlington, VA



Charlottesville, VA

TECHx



Shellphish

Santa Barbara, CA



Athens, GA

disekt



CodeJitsu

Berkeley, CA



CSDS

Moscow, ID



Charlottesville, VA

TECHx



Pittsburgh, PA

ForAllSecure



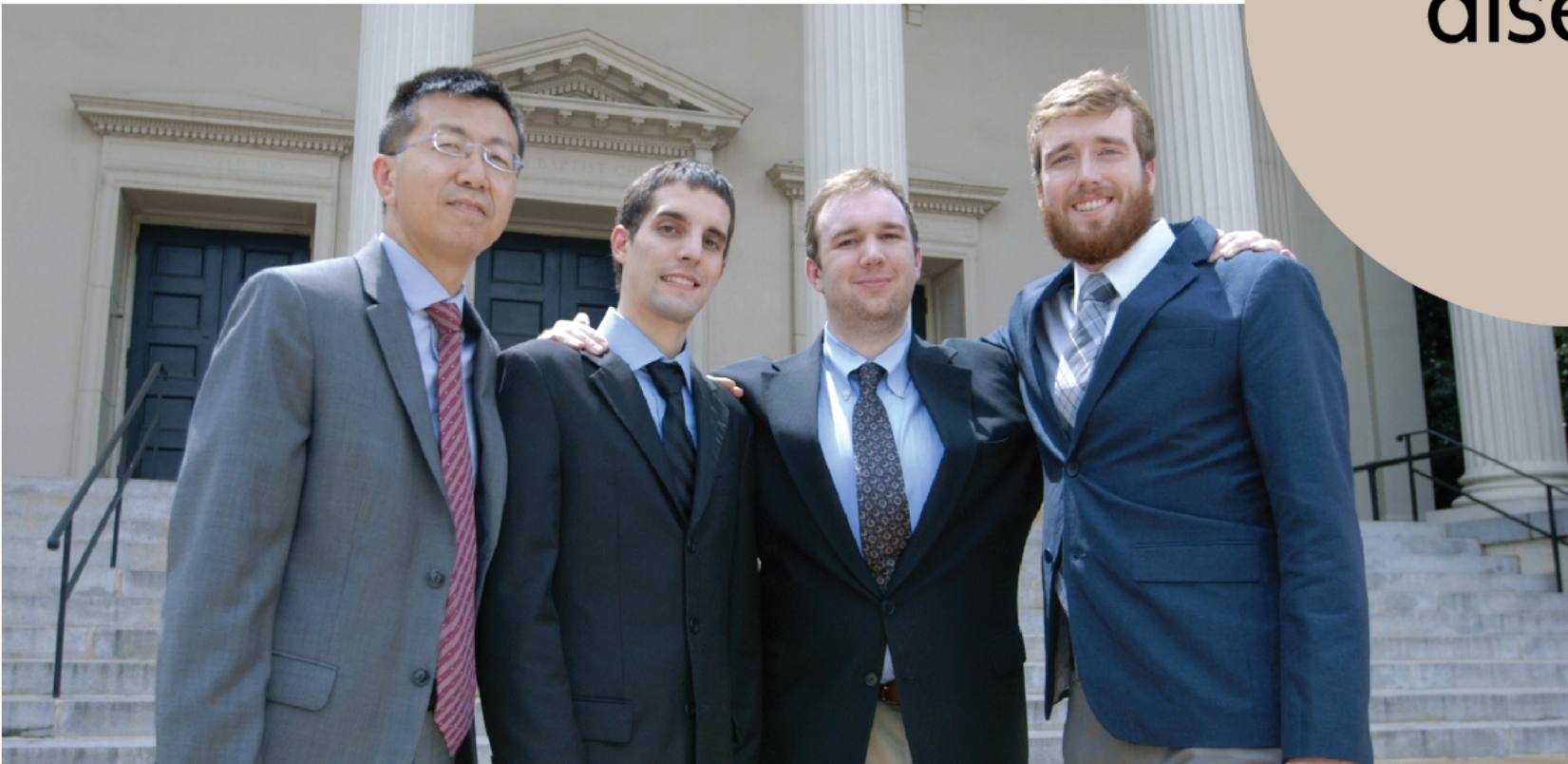
CodeJitsu



Berkeley, CA

Approved for Public Release, Distribution Unlimited

disekt



Athens, GA

CSDS



Moscow, ID



Shellphish

Santa Barbara, CA



Deep Red

Arlington, VA



Pittsburgh, PA

ForAllSecure



Deep Red

Arlington, VA



Charlottesville, VA

TECHx



Shellphish

Santa Barbara, CA



Athens, GA

disekt



CodeJitsu

Berkeley, CA



CSDS

Moscow, ID







THURSDAY, AUGUST 4TH, 2016

DEF CON 24

MACHINES PLAY CAPTURE THE FLAG