```
<script type="text/javascript" src="app.js">
<link rel="stylesheet" href="styles.css">
<body onload=e sports analysis()>
<div>
<h2 class="section">E-Sports Team/Player Analysis</h2>
<br>
<h3>KD/A Scatter Plot</h3>
       <input type="radio" id="scatter t1" name="region" value="Cloud9">
       <label for="Cloud9">Cloud9</label>
       <input type="radio" id="scatter t2" name="region" value="Vision</pre>
Strikers">
       <label for="Vision Strikers">Vision Strikers
       <input type="radio" id="scatter t3" name="region" value="OpTic</pre>
Gaming">
       <label for="OpTic Gaming">OpTic Gaming</label>
   <h4>Plot:</h4>
```

```
This is a scatter plot with each dot representing each players.
    The main purpose of this graph was to answer "Which player has the
highest kda", and it is kind of obvious to check.
    However, if you press the button on top, which are the three teams
that
    I was interested in, you can see the team's specific players. For
instance, it was interesting to see Vision Striker to have
    players with a big difference of kda, but I found out that Lakia (the
player with lower kda) plays supporting character, which is a
    character that is hard to get kills. This is also little bit different
from my original proposal, but I fixed it for my own interest.
<h3>Average Combat Score Per Map</h3>
<div id="bar">
    <h4>Plot:</h4>
            As mentioned in the proposal, this is a bar graph comparing
ACS (average combat score) for each map.
        I used columns ACS, and map.
        This graph answers the question of "Does a certain map makes ACS
to drop?", meaning that is there
        any map that are harder to play. <br/> <br/>
        Furthermore, animation of bar graph is added because flipping and
changing color is not an animation as
        the gradescope regrade suggested. This particular animation is a
graph entering one by one.
```

```
<h3>Team K/D/A Graph</h3>
   <h4>Plot:</h4>
   <div id="stacked bar plot" class="center plot">
   This is stacked bar graph answering the question "What is Team's
average kda". I also changed this and wrote it down via gradescope.
   If you hover over the graph, you can see the average kills of each
team. Notice that average k, d, a differs a lot because
    some teams had more matches. This made me thought of making
standardized version of the graph.
<h3>Player Numbers For Different Regions</h3>
<div id="choropleth">
   <h4>Plot:</h4>
   <div id="choropleth graph" class="center plot">
   This is choropleth with blue dots representing players in that
country. If the circle is bigger, that means there are more players
    from that country. I can see that there are lots of players from North
and South America.
```

```
I can zoom in through the map using the mouse to anywhere I want as
well to see more carefully.
<h3>Network Tree for Famous Teams</h3>
<div id="network">
   <h4>Plot:</h4>
   This is a network with top 5 team as the node. The line represents the
relationship between teams for the
   average kda and assists.
```

## data.csv

Country,Player,Team,Maps,K,D,A,KD,KDA,ACS/Map,K/Map,D/Map,A/Map Japan,Ade,Crazy Raccoon,10,95,148,59,0.64,1.04,125.5,9.5,14.8,5.9 Japan,Fisker,Crazy Raccoon,10,122,164,39,0.74,0.98,176.5,12.2,16.4,3.9 South Korea,Bazzi,Crazy Raccoon,5,62,74,25,0.84,1.18,208,12.4,14.8,5 South Korea,Munchkin,Crazy Raccoon,14,272,229,69,1.19,1.49,193.75,19.43,16.36,4.93 Japan,Neth,Crazy Raccoon,14,183,212,73,0.86,1.21,177.5,13.07,15.14,5.21 Japan,Zepher,Crazy Raccoon,4,62,67,10,0.93,1.07,202,15.5,16.75,2.5 South Korea,Medusa,Crazy Raccoon,9,125,150,40,0.83,1.1,195.25,13.89,16.67,4.44 Japan,Rion,Crazy Raccoon,4,46,67,16,0.69,0.93,148,11.5,16.75,4 Finland,Derke,Fnatic,25,498,416,119,1.2,1.48,204,19.92,16.64,4.76 Czechia,Magnum,Fnatic,29,461,444,131,1.04,1.33,167.375,15.9,15.31,4.52 Croatia,Doma,Fnatic,25,398,372,199,1.07,1.6,152.25,15.92,14.88,7.96

```
United Kingdom, Mistic, Fnatic, 29,408,404,215,1.01,1.54,159.125,14.07,13.93,7.41
United Kingdom, Boaster, Fnatic, 29, 396, 442, 178, 0.9, 1.3, 131.75, 13.66, 15.24, 6.14
Argentina, Klaus, KRÜ Esports, 33, 438, 489, 171, 0.9, 1.25, 185, 625, 13, 27, 14, 82, 5, 18
Chile, Keznit, KRÜ Esports, 27, 490, 451, 129, 1.09, 1.37, 191.875, 18.15, 16.7, 4.78
Chile, Mazino, KRÜ Esports, 33, 464, 518, 218, 0.9, 1.32, 184.5, 14.06, 15.7, 6.61
Argentina, Bnj, Ninjas in Pyjamas, 20, 224, 269, 112, 0.83, 1.25, 163.25, 11.2, 13.45, 5.6
Chile.NaqZ,KRÜ Esports,33,469,496,108,0.95,1.16,190,14.21,15.03,3.27
Chile, Delz1k, KRÜ Esports, 33, 421, 509, 178, 0.83, 1.18, 172, 12.76, 15.42, 5.39
South Korea, Lakia, NUTURN Gaming, 11, 174, 146, 62, 1.19, 1.62, 231, 15.82, 13.27, 5.64
South Korea, Allow, NUTURN Gaming, 11, 150, 163, 30, 0.92, 1.1, 198, 13.64, 14.82, 2.73
South Korea, Solo, NUTURN Gaming, 11, 137, 167, 65, 0.82, 1.21, 188, 12.45, 15.18, 5.91
South Korea, Suggest, NUTURN Gaming, 11, 146, 158, 36, 0.92, 1.15, 186, 13.27, 14.36, 3.27
South Korea, Peri, NUTURN Gaming, 11, 151, 142, 43, 1.06, 1.37, 184, 13.73, 12.91, 3.91
Canada, TenZ, Sentinels, 30, 587, 448, 140, 1.31, 1.62, 252, 19.57, 14.93, 4.67
United States, ShahZaM, Sentinels, 30,511,429,167,1.19,1.58,226,17.03,14.3,5.57
United States, SicK, Sentinels, 30, 473, 435, 189, 1.09, 1.52, 211, 15.77, 14.5, 6.3
United States, Dapr, Sentinels, 30, 395, 435, 183, 0.91, 1.33, 184.5, 13.17, 14.5, 6.1
United States, Zombs, Sentinels, 30, 366, 421, 224, 0.87, 1.4, 158.5, 12.2, 14.03, 7.47
Brazil, Prozin, Sharks Esports, 5, 70, 75, 15, 0.93, 1.13, 237, 14, 15, 3
Brazil, Gaabxx, Sharks Esports, 5, 65, 66, 17, 0.98, 1.24, 199, 13, 13.2, 3.4
Brazil, DeNaro, Sharks Esports, 5, 45, 69, 24, 0.65, 1, 161, 9, 13.8, 4.8
Brazil, Light, Sharks Esports, 5, 35, 67, 22, 0.52, 0.85, 125, 7, 13.4, 4.4
Brazil, Fra, Sharks Esports, 5, 35, 69, 17, 0.51, 0.75, 122, 7, 13.8, 3.4
Belgium, ScreaM, Team Liquid, 29, 551, 438, 162, 1.26, 1.63, 259, 19, 15.1, 5.59
Belgium, Nivera, Team Liquid, 20, 311, 272, 71, 1.14, 1.4, 197.5, 15.55, 13.6, 3.55
Finland, Jamppi, Team Liquid, 29, 483, 438, 113, 1.1, 1.36, 219.5, 16.66, 15.1, 3.9
United Kingdom, L1NK, Team Liquid, 29, 417, 401, 176, 1.04, 1.48, 181.75, 14.38, 13.83, 6.07
United Kingdom, Soulcas, Team Liquid, 29, 403, 423, 217, 0.95, 1.47, 193.25, 13.9, 14.59, 7.48
United Kingdom, Kryptix, Team Liquid, 9, 104, 117, 54, 0.89, 1.35, 161, 11.56, 13, 6
Brazil, Sacy, Team Vikings, 13, 233, 194, 92, 1.2, 1.68, 229.5, 17.92, 14.92, 7.08
Brazil, Sutecas, Team Vikings, 13, 189, 196, 70, 0.96, 1.32, 178, 14.54, 15.08, 5.38
Argentina, Saadhak, LOUD, 24, 330, 382, 168, 0.86, 1.3, 185.75, 13.75, 15.92, 7
Brazil, GtnziN, Team Vikings, 13,160,199,49,0.8,1.05,165.5,12.31,15.31,3.77
Brazil, Frz, Team Vikings, 13, 161, 212, 59, 0.76, 1.04, 154, 12.38, 16.31, 4.54
United States, Zellsis, Version 1, 10, 184, 168, 61, 1.1, 1.46, 230, 18.4, 16.8, 6.1
Canada, Penny, Version 1, 10, 185, 173, 40, 1.07, 1.3, 227, 18.5, 17.3, 4
Canada, Effys, Version 1, 10, 161, 146, 69, 1.1, 1.58, 186, 16.1, 14.6, 6.9
United States, Jammyz, Version 1, 10, 136, 169, 56, 0.8, 1.14, 176, 13.6, 16.9, 5.6
Thailand, Patiphan, X10 CRIT, 16, 277, 248, 86, 1.12, 1.46, 236, 17.31, 15.5, 5.38
Thailand, Foxz, Xerxia, 23, 349, 369, 131, 0.95, 1.3, 195.75, 15.17, 16.04, 5.7
Thailand, Crws, Xerxia, 23, 300, 367, 157, 0.82, 1.25, 169.25, 13.04, 15.96, 6.83
Thailand, Sushiboys, Xerxia, 23, 354, 352, 95, 1.01, 1.28, 192.75, 15.39, 15.3, 4.13
Thailand, SScary, Xerxia, 23, 329, 338, 176, 0.97, 1.49, 187.5, 14.3, 14.7, 7.65
United States, Asuna, 100 Thieves, 10, 171, 162, 39, 1.06, 1.3, 247, 17.1, 16.2, 3.9
```

```
United States. Ethan. 100 Thieves. 10.159.148.50.1.07.1.41.212.15.9.14.8.5
United States, Nitro, 100 Thieves, 10, 161, 128, 62, 1.26, 1.74, 202, 16.1, 12.8, 6.2
United States, Hiko, 100 Thieves, 10, 128, 124, 65, 1.03, 1.56, 187, 12.8, 12.4, 6.5
Canada, Steel, 100 Thieves, 10, 120, 152, 57, 0.79, 1.16, 174, 12, 15.2, 5.7
Turkey, Cned, Acend, 24, 435, 345, 99, 1.26, 1.55, 246, 18.13, 14.38, 4.13
Poland, Zeek, Acend, 24, 389, 334, 154, 1.16, 1.63, 224.5, 16.21, 13.92, 6.42
Poland, Starxo, Acend, 24, 344, 344, 148, 1, 1.43, 188.5, 14.33, 14.33, 6.17
Spain, Kiles, Acend, 24, 289, 353, 127, 0.82, 1.18, 158.5, 12.04, 14.71, 5.29
Finland, BONECOLD, Acend, 24, 291, 342, 146, 0.85, 1.28, 160.5, 12.13, 14.25, 6.08
South Korea, Bunny, F4Q, 10, 144, 146, 33, 0.99, 1.21, 228, 14.4, 14.6, 3.3
South Korea, Esperanza, F4Q, 10, 125, 148, 48, 0.84, 1.17, 191, 12.5, 14.8, 4.8
South Korea, Zunba, F4Q, 10, 120, 144, 51, 0.83, 1.19, 173, 12, 14.4, 5.1
South Korea, Five K, F4Q, 10, 105, 155, 45, 0.68, 0.97, 159, 10.5, 15.5, 4.5
South Korea, Efina, F4Q, 10, 97, 139, 22, 0.7, 0.86, 155, 9.7, 13.9, 2.2
France, Kelogz, G2 Esports, 14, 261, 197, 28, 1.32, 1.47, 257, 18, 64, 14, 07, 2
Lithuania, Nukkye, G2 Esports, 20, 301, 276, 121, 1.09, 1.53, 221.5, 15.05, 13.8, 6.05
Spain, Mixwell, G2 Esports, 20, 270, 284, 100, 0.95, 1.3, 199.5, 13.5, 14.2, 5
Spain, Koldamenta, G2 Esports, 14, 170, 179, 95, 0.95, 1.48, 177, 12.14, 12.79, 6.79
Denmark, Avov A, G2 Esports, 20, 256, 274, 112, 0.93, 1.34, 172.5, 12.8, 13.7, 5.6
Russia, Nats, Gambit Esports, 32,542,425,188,1.28,1.72,237.5,16.94,13.28,5.88
Russia, Chronicle, Gambit Esports, 32,540,411,193,1.31,1.78,229,16.88,12.84,6.03
Russia, D3ffo, Gambit Esports, 32,516,447,99,1.15,1.38,223,16.13,13.97,3.09
Russia, Sheydos, Gambit Esports, 32, 480, 434, 139, 1.11, 1.43, 201.5, 15, 13.56, 4.34
Russia, Redgar, Gambit Esports, 32, 407, 428, 222, 0.95, 1.47, 169, 12.72, 13.38, 6.94
Brazil, Mwzera, Keyd Stars, 5,61,67,21,0.91,1.22,188,12.2,13.4,4.2
Brazil, Heat, Keyd Stars, 11, 214, 163, 25, 1.31, 1.47, 263.5, 19.45, 14.82, 2.27
Brazil, Murizzz, Keyd Stars, 11,160,164,54,0.98,1.3,201.5,14.55,14.91,4.91
Brazil, Ntk, Keyd Stars, 6,81,93,32,0.87,1.22,178,13.5,15.5,5.33
Brazil, V1xen, Keyd Stars, 11, 130, 146, 72, 0.89, 1.38, 151, 11.82, 13.27, 6.55
Brazil, JhoW, Keyd Stars, 11, 120, 159, 67, 0.75, 1.18, 157, 10.91, 14.45, 6.09
Brazil, Krain, Liberty, 4,50,63,19,0.79,1.1,205,12.5,15.75,4.75
Brazil, Shion, Liberty, 4,54,69,7,0.78,0.88,193,13.5,17.25,1.75
Brazil, Pleets, Liberty, 4, 46, 62, 24, 0.74, 1.13, 181, 11.5, 15.5, 6
Brazil, Liazzi, Liberty, 4, 48, 61, 8, 0.79, 0.92, 180, 12, 15.25, 2
Brazil, Myssen, Liberty, 4, 40, 61, 18, 0.66, 0.95, 156, 10, 15.25, 4.5
Indonesia, F0rsakeN, Paper Rex, 15, 268, 246, 47, 1.09, 1.28, 234.5, 17.87, 16.4, 3.13
Malaysia, D4v41, Paper Rex, 15, 200, 230, 99, 0.87, 1.3, 185, 13.33, 15.33, 6.6
Indonesia, Mindfreak, Paper Rex, 15, 174, 229, 105, 0.76, 1.22, 155, 11.6, 15.27, 7
Singapore, Benkai, Paper Rex, 15, 196, 205, 67, 0.96, 1.28, 166, 13.07, 13.67, 4.47
Singapore, Shiba, Paper Rex, 5, 48, 77, 31, 0.62, 1.03, 128, 9.6, 15.4, 6.2
Turkey, Izzy, SuperMassive Blaze, 8, 133, 119, 24, 1.12, 1.32, 221, 16.63, 14.88, 3
Turkey, Russ, SuperMassive Blaze, 8, 118, 118, 46, 1, 1.39, 212, 14.75, 14.75, 5.75
Turkey, Brave, SuperMassive Blaze, 8,113,120,56,0.94,1.41,209,14.13,15,7
Turkey, Paura, SuperMassive Blaze, 8, 110, 113, 38, 0.97, 1.31, 191, 13.75, 14.13, 4.75
```

```
Turkey, Turko, SuperMassive Blaze, 8, 103, 103, 47, 1, 1, 46, 163, 12, 88, 12, 88, 5, 88
United States, Yay, OpTic Gaming, 39, 793, 594, 128, 1.34, 1.55, 256, 20.33, 15.23, 3.28
United States, Crashies, OpTic Gaming, 39,619,568,279,1.09,1.58,202.75,15.87,14.56,7.15
United States, Victor, OpTic Gaming, 39,606,606,279,1,1.46,197.75,15.54,15.54,7.15
Canada, Marved, OpTic Gaming, 39,651,598,285,1.09,1.57,211,16.69,15.33,7.31
Canada, FNS, OpTic Gaming, 39, 487, 612, 181, 0.8, 1.09, 165.25, 12.49, 15.69, 4.64
South Korea, BuZz, DRX, 28, 468, 419, 114, 1.12, 1.39, 230.25, 16.71, 14.96, 4.07
South Korea, MaKo, DRX, 28, 439, 361, 230, 1.22, 1.85, 220.25, 15.68, 12.89, 8.21
South Korea, K1Ng, Vision Strikers, 13, 170, 181, 54, 0.94, 1.24, 182, 13.08, 13.92, 4.15
South Korea, Rb, DRX, 28, 375, 395, 151, 0.95, 1.33, 181.5, 13.39, 14.11, 5.39
South Korea, Stax, DRX, 28, 426, 380, 187, 1.12, 1.61, 195.75, 15.21, 13.57, 6.68
South Korea, Lakia, Vision Strikers, 2, 22, 30, 4, 0.73, 0.87, 175, 11, 15, 2
Japan, Laz, ZETA DIVISION, 26, 408, 378, 100, 1.08, 1.34, 231, 15.69, 14.54, 3.85
Japan, Takej, ZETA DIVISION, 5, 70, 67, 23, 1.04, 1.39, 209, 14, 13.4, 4.6
Japan, Crow, ZETA DIVISION, 26, 299, 364, 147, 0.82, 1.23, 164, 5, 11, 5, 14, 5, 65
Japan, Reita, ZETA DIVISION, 5, 47, 74, 11, 0.64, 0.78, 152, 9.4, 14.8, 2.2
Japan, Barce, ZETA DIVISION, 2, 13, 28, 12, 0.46, 0.89, 113, 6.5, 14, 6
Japan, Makiba, ZETA DIVISION, 3, 18, 44, 17, 0.41, 0.8, 110, 6, 14.67, 5.67
United States, Leaf, Cloud 9, 10, 210, 176, 58, 1.19, 1.52, 263, 21, 17.6, 5.8
United States, Xeppaa, Cloud 9, 10, 154, 174, 77, 0.89, 1.33, 195, 15.4, 17.4, 7.7
United States, Mitch, Cloud 9, 10, 152, 156, 42, 0.97, 1.24, 184, 15.2, 15.6, 4.2
South Korea, Xeta, Cloud 9, 10, 153, 151, 87, 1.01, 1.59, 179, 15.3, 15.1, 8.7
United States, Vanity, Cloud 9, 20, 285, 337, 160, 0.85, 1.32, 178.5, 14.25, 16.85, 8
Thailand, LAMMYSNAX, FULL SENSE, 4,61,65,20,0.94,1.25,213,15.25,16.25,5
Thailand, John Olsen, FULL SENSE, 4,53,68,16,0.78,1.01,192,13.25,17,4
Thailand, SuperBusS, FULL SENSE, 4,52,61,18,0.85,1.15,179,13,15.25,4.5
Thailand, PTC, FULL SENSE, 4, 48, 62, 26, 0.77, 1.19, 168, 12, 15.5, 6.5
Thailand, ChAlalala, FULL SENSE, 4, 41, 58, 9, 0.71, 0.86, 139, 10.25, 14.5, 2.25
Brazil, Xand, FURIA Esports, 6, 106, 103, 23, 1.03, 1.25, 231, 17.67, 17.17, 3.83
Argentina, Nozwerr, FURIA Esports, 6,97,85,38,1.14,1.59,205,16.17,14.17,6.33
Brazil, Khalil, FURIA Esports, 6, 88, 103, 41, 0.85, 1.25, 196, 14.67, 17.17, 6.83
Brazil, Qck, FURIA Esports, 6,89,92,32,0.97,1.32,188,14.83,15.33,5.33
Brazil, Mazin, FURIA Esports, 6,81,99,35,0.82,1.17,161,13.5,16.5,5.83
Philippines, Dubste P, Team Secret, 9, 141, 123, 18, 1.15, 1.29, 237, 15.67, 13.67, 2
Philippines, Dispenser, Team Secret, 9, 132, 112, 42, 1.18, 1.55, 212, 14.67, 12.44, 4.67
Philippines, Witz, Team Secret, 9, 117, 115, 43, 1.02, 1.39, 204, 13, 12.78, 4.78
Philippines, Jessie Vash, Team Secret, 9, 101, 120, 64, 0.84, 1.38, 201, 11.22, 13.33, 7.11
Philippines, BORKUM, Team Secret, 9, 103, 105, 41, 0.98, 1, 37, 165, 11, 44, 11, 67, 4, 56
Brazil, Aspas, LOUD, 11, 211, 168, 35, 1.26, 1.46, 249, 19.18, 15.27, 3.18
Brazil, Sacy, LOUD, 11, 169, 159, 72, 1.06, 1.52, 202, 15.36, 14.45, 6.55
Brazil, Less, LOUD, 11, 166, 164, 61, 1.01, 1.38, 202, 15.09, 14.91, 5.55
Brazil, PANcada, LOUD, 11, 165, 172, 58, 0.96, 1.3, 180, 15, 15.64, 5.27
Brazil, Xand, Ninjas in Pyjamas, 7,125,108,25,1.16,1.39,241,17.86,15.43,3.57
Brazil, Cauanzin, Ninjas in Pyjamas, 7,102,108,45,0.94,1.36,207,14.57,15.43,6.43
```

Brazil, Benzn1, Ninjas in Pyjamas, 7,92,108,51,0.85,1.32,191,13.14,15.43,7.29 Brazil, John, Ninjas in Pyjamas, 7,93,113,32,0.82,1.11,181,13.29,16.14,4.57 South Korea, Sayaplayer, The Guard, 5, 95, 75, 15, 1.27, 1.47, 251, 19, 15, 3 Canada, Jonah P, The Guard, 5, 77, 80, 20, 0.96, 1.21, 198, 15.4, 16, 4 United States, Nats, The Guard, 5,67,77,14,0.87,1.05,179,13.4,15.4,2.8 United States, Valyn, The Guard, 5,67,78,43,0.86,1.41,178,13.4,15.6,8.6 United States, Trent, The Guard, 5,63,79,19,0.8,1.04,162,12.6,15.8,3.8 South Korea, Zest, DRX, 13, 194, 171, 64, 1.13, 1.51, 196, 14.92, 13.15, 4.92 Finland, H1ber, Fnatic, 4,63,73,22,0.86,1.16,231,15.75,18.25,5.5 France, Enzo, Fnatic, 4,68,61,19,1.11,1.43,229,17,15.25,4.75 Finland, Hoody, G2 Esports, 6, 105, 97, 38, 1.08, 1.47, 242, 17.5, 16.17, 6.33 Sweden, Meddo, G2 Esports, 6,69,91,15,0.76,0.92,152,11.5,15.17,2.5 Singapore, Jinggg, Paper Rex, 10, 184, 168, 51, 1.1, 1.4, 250, 18.4, 16.8, 5.1 Thailand, Surf, Xerxia, 7,121,120,16,1.01,1.14,212,17.29,17.14,2.29 Japan, TENNN, ZETA DIVISION, 21, 324, 327, 94, 0.99, 1.28, 221, 15.43, 15.57, 4.48 Japan, Sugar Z 3 ro, Z E T A DIVISION, 21, 345, 298, 146, 1.16, 1.65, 221, 16.43, 14.19, 6.95 Japan, Dep, ZETA DIVISION, 21, 299, 312, 105, 0.96, 1.29, 194, 14.24, 14.86, 5