

The SAS System

The CORR Procedure

| | |
|-------------------|--|
| 20 | GameID LeagueIndex Age HoursPerWeek TotalHours APM SelectByHotkeys AssignToHotkeys UniqueHotkeys MinimapAttacks MinimapRightClicks NumberOfPACs GapBetweenPACs |
| Variables: | ActionLatency ActionsInPAC TotalMapExplored WorkersMade UniqueUnitsMade ComplexUnitsMade ComplexAbilitiesUsed |

| Simple Statistics | | | | | | |
|----------------------|------|-----------|-----------|----------|-----------|-----------|
| Variable | N | Mean | Std Dev | Sum | Minimum | Maximum |
| GameID | 3395 | 4805 | 2720 | 16313017 | 52.00000 | 10095 |
| LeagueIndex | 3395 | 4.18409 | 1.51733 | 14205 | 1.00000 | 8.00000 |
| Age | 3340 | 21.64790 | 4.20634 | 72304 | 16.00000 | 44.00000 |
| HoursPerWeek | 3339 | 15.91075 | 11.96291 | 53126 | 0 | 168.00000 |
| TotalHours | 3338 | 960.42181 | 17318 | 3205888 | 3.00000 | 1000000 |
| APM | 3395 | 117.04695 | 51.94529 | 397374 | 22.05960 | 389.83140 |
| SelectByHotkeys | 3395 | 0.00430 | 0.00528 | 14.59395 | 0 | 0.04309 |
| AssignToHotkeys | 3395 | 0.0003736 | 0.0002249 | 1.26829 | 0 | 0.00175 |
| UniqueHotkeys | 3395 | 4.36465 | 2.36033 | 14818 | 0 | 10.00000 |
| MinimapAttacks | 3395 | 0.0000983 | 0.0001659 | 0.33375 | 0 | 0.00302 |
| MinimapRightClicks | 3395 | 0.0003874 | 0.0003770 | 1.31535 | 0 | 0.00404 |
| NumberOfPACs | 3395 | 0.00346 | 0.0009923 | 11.75650 | 0.0006790 | 0.00797 |
| GapBetweenPACs | 3395 | 40.36156 | 17.15357 | 137028 | 6.66670 | 237.14290 |
| ActionLatency | 3395 | 63.73940 | 19.23887 | 216395 | 24.09360 | 176.37210 |
| ActionsInPAC | 3395 | 5.27299 | 1.49484 | 17902 | 2.03890 | 18.55810 |
| TotalMapExplored | 3395 | 22.13166 | 7.43172 | 75137 | 5.00000 | 58.00000 |
| WorkersMade | 3395 | 0.00103 | 0.0005190 | 3.50257 | 0.0000770 | 0.00515 |
| UniqueUnitsMade | 3395 | 6.53402 | 1.85770 | 22183 | 2.00000 | 13.00000 |
| ComplexUnitsMade | 3395 | 0.0000594 | 0.0001111 | 0.20177 | 0 | 0.0009023 |
| ComplexAbilitiesUsed | 3395 | 0.0001419 | 0.0002652 | 0.48168 | 0 | 0.00308 |

| Pearson Correlation Coe Prob > r under H0: R Number of Observa | | | | | | | | | | | |
|--|----------|-------------|----------|--------------|------------|----------|-----------------|-----------------|---------------|----------------|----------------|
| | GameID | LeagueIndex | Age | HoursPerWeek | TotalHours | APM | SelectByHotkeys | AssignToHotkeys | UniqueHotkeys | MinimapAttacks | MinimapRightCI |
| GameID | 1.00000 | 0.10260 | 0.08886 | -0.02546 | 0.00418 | 0.15969 | 0.16080 | 0.13618 | 0.11737 | 0.07404 | 0.04 |
| | | <.0001 | <.0001 | 0.1414 | 0.8093 | <.0001 | <.0001 | <.0001 | <.0001 | <.0001 | 0.0 |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| LeagueIndex | 0.10260 | 1.00000 | -0.12782 | 0.21798 | 0.02388 | 0.66231 | 0.49060 | 0.53112 | 0.35121 | 0.31254 | 0.23 |
| | <.0001 | | <.0001 | <.0001 | 0.1677 | <.0001 | <.0001 | <.0001 | <.0001 | <.0001 | <.0 |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| Age | 0.08886 | -0.12782 | 1.00000 | -0.18451 | -0.01663 | -0.21056 | -0.13118 | -0.10561 | 0.01545 | 0.04339 | -0.01 |
| | <.0001 | <.0001 | | <.0001 | 0.3368 | <.0001 | <.0001 | <.0001 | 0.3722 | 0.0121 | 0.2 |
| | 3340 | 3340 | 3340 | 3339 | 3338 | 3340 | 3340 | 3340 | 3340 | 3340 | 3 |
| HoursPerWeek | -0.02546 | 0.21798 | -0.18451 | 1.00000 | 0.02431 | 0.24684 | 0.20578 | 0.15842 | 0.07020 | 0.08405 | 0.04 |
| | 0.1414 | <.0001 | <.0001 | | 0.1603 | <.0001 | <.0001 | <.0001 | <.0001 | <.0001 | 0.0 |
| | 3339 | 3339 | 3339 | 3339 | 3338 | 3339 | 3339 | 3339 | 3339 | 3339 | 3 |
| TotalHours | 0.00418 | 0.02388 | -0.01663 | 0.02431 | 1.00000 | 0.07285 | 0.08183 | 0.04241 | 0.00932 | 0.00087 | 0.00 |
| | 0.8093 | 0.1677 | 0.3368 | 0.1603 | | <.0001 | <.0001 | 0.0143 | 0.5905 | 0.9597 | 0.6 |
| | 3338 | 3338 | 3338 | 3338 | 3338 | 3338 | 3338 | 3338 | 3338 | 3338 | 3 |
| APM | 0.15969 | 0.66231 | -0.21056 | 0.24684 | 0.07285 | 1.00000 | 0.84069 | 0.57842 | 0.36170 | 0.27102 | 0.32 |
| | <.0001 | <.0001 | <.0001 | <.0001 | <.0001 | | <.0001 | <.0001 | <.0001 | <.0001 | <.0 |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| SelectByHotkeys | 0.16080 | 0.49060 | -0.13118 | 0.20578 | 0.08183 | 0.84069 | 1.00000 | 0.50453 | 0.30210 | 0.19716 | 0.14 |
| | <.0001 | <.0001 | <.0001 | <.0001 | <.0001 | <.0001 | | <.0001 | <.0001 | <.0001 | <.0 |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| AssignToHotkeys | 0.13618 | 0.53112 | -0.10561 | 0.15842 | 0.04241 | 0.57842 | 0.50453 | 1.00000 | 0.42024 | 0.24220 | 0.19 |
| | <.0001 | <.0001 | <.0001 | <.0001 | 0.0143 | <.0001 | <.0001 | | <.0001 | <.0001 | <.0 |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| UniqueHotkeys | 0.11737 | 0.35121 | 0.01545 | 0.07020 | 0.00932 | 0.36170 | 0.30210 | 0.42024 | 1.00000 | 0.18059 | 0.14 |
| | <.0001 | <.0001 | 0.3722 | <.0001 | 0.5905 | <.0001 | <.0001 | <.0001 | | <.0001 | <.0 |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| MinimapAttacks | 0.07404 | 0.31254 | 0.04339 | 0.08405 | 0.00087 | 0.27102 | 0.19716 | 0.24220 | 0.18059 | 1.00000 | 0.24 |
| | <.0001 | <.0001 | 0.0121 | <.0001 | 0.9597 | <.0001 | <.0001 | <.0001 | <.0001 | | <.0 |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| MinimapRightClicks | 0.04658 | 0.23323 | -0.01958 | 0.04942 | 0.00766 | 0.32218 | 0.14337 | 0.19304 | 0.14158 | 0.24227 | 1.00 |
| | 0.0066 | <.0001 | 0.2579 | 0.0043 | 0.6581 | <.0001 | <.0001 | <.0001 | <.0001 | <.0001 | |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| NumberOfPACs | 0.08964 | 0.61219 | -0.19728 | 0.17495 | 0.03958 | 0.65124 | 0.39851 | 0.48673 | 0.37208 | 0.17734 | 0.17 |
| | <.0001 | <.0001 | <.0001 | <.0001 | 0.0222 | <.0001 | <.0001 | <.0001 | <.0001 | <.0001 | <.0 |

| | | | | | | | | | | | |
|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-------|
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| GapBetweenPACs | -0.10257 | -0.55325 | 0.11202 | -0.13377 | -0.02064 | -0.57527 | -0.30429 | -0.39689 | -0.24282 | -0.23763 | -0.25 |
| | <.0001 | <.0001 | <.0001 | <.0001 | 0.2331 | <.0001 | <.0001 | <.0001 | <.0001 | <.0001 | <.0 |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| ActionLatency | -0.08722 | -0.67394 | 0.24035 | -0.18877 | -0.03570 | -0.72240 | -0.41539 | -0.48219 | -0.32310 | -0.19990 | -0.23 |
| | <.0001 | <.0001 | <.0001 | <.0001 | 0.0392 | <.0001 | <.0001 | <.0001 | <.0001 | <.0001 | <.0 |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| ActionsInPAC | 0.04726 | 0.14312 | -0.04541 | 0.09509 | 0.01070 | 0.38399 | 0.16328 | 0.09367 | -0.01640 | 0.13480 | 0.30 |
| | 0.0059 | <.0001 | 0.0087 | <.0001 | 0.5365 | <.0001 | <.0001 | <.0001 | 0.3394 | <.0001 | <.0 |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| TotalMapExplored | 0.03231 | 0.22068 | -0.02460 | 0.06500 | 0.02049 | 0.22075 | 0.08348 | 0.19293 | 0.26465 | 0.16639 | 0.17 |
| | 0.0598 | <.0001 | 0.1551 | 0.0002 | 0.2367 | <.0001 | <.0001 | <.0001 | <.0001 | <.0001 | <.0 |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| WorkersMade | -0.01164 | 0.29564 | -0.09210 | 0.05062 | 0.01483 | 0.34969 | 0.14172 | 0.18307 | 0.10814 | 0.07762 | 0.20 |
| | 0.4979 | <.0001 | <.0001 | 0.0034 | 0.3918 | <.0001 | <.0001 | <.0001 | <.0001 | <.0001 | <.0 |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| UniqueUnitsMade | 0.02120 | 0.13351 | 0.02302 | 0.03855 | -0.00238 | 0.10084 | 0.00612 | 0.13283 | 0.22503 | 0.12083 | 0.14 |
| | 0.2168 | <.0001 | 0.1835 | 0.0259 | 0.8907 | <.0001 | 0.7215 | <.0001 | <.0001 | <.0001 | <.0 |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| ComplexUnitsMade | -0.02710 | 0.14883 | -0.08024 | 0.05933 | -0.00715 | 0.13614 | 0.04400 | 0.14460 | 0.11036 | 0.04024 | 0.09 |
| | 0.1144 | <.0001 | <.0001 | 0.0006 | 0.6795 | <.0001 | 0.0103 | <.0001 | <.0001 | 0.0190 | <.0 |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| ComplexAbilitiesUsed | 0.00325 | 0.14573 | -0.06574 | 0.07470 | -0.00631 | 0.13159 | 0.06104 | 0.15441 | 0.10245 | 0.04453 | 0.09 |
| | 0.8500 | <.0001 | 0.0001 | <.0001 | 0.7155 | <.0001 | 0.0004 | <.0001 | <.0001 | 0.0095 | <.0 |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |

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| 20 | GameID LeagueIndex Age HoursPerWeek TotalHours APM SelectByHotkeys AssignToHotkeys UniqueHotkeys MinimapAttacks MinimapRightClicks NumberOfPACs GapBetweenPACs |
| Variables: | ActionLatency ActionsInPAC TotalMapExplored WorkersMade UniqueUnitsMade ComplexUnitsMade ComplexAbilitiesUsed |

| Simple Statistics | | | | | | |
|----------------------|------|-----------|-----------|----------|-----------|-----------|
| Variable | N | Mean | Std Dev | Sum | Minimum | Maximum |
| GameID | 3395 | 4805 | 2720 | 16313017 | 52.00000 | 10095 |
| LeagueIndex | 3395 | 4.18409 | 1.51733 | 14205 | 1.00000 | 8.00000 |
| Age | 3340 | 21.64790 | 4.20634 | 72304 | 16.00000 | 44.00000 |
| HoursPerWeek | 3339 | 15.91075 | 11.96291 | 53126 | 0 | 168.00000 |
| TotalHours | 3338 | 960.42181 | 17318 | 3205888 | 3.00000 | 1000000 |
| APM | 3395 | 117.04695 | 51.94529 | 397374 | 22.05960 | 389.83140 |
| SelectByHotkeys | 3395 | 0.00430 | 0.00528 | 14.59395 | 0 | 0.04309 |
| AssignToHotkeys | 3395 | 0.0003736 | 0.0002249 | 1.26829 | 0 | 0.00175 |
| UniqueHotkeys | 3395 | 4.36465 | 2.36033 | 14818 | 0 | 10.00000 |
| MinimapAttacks | 3395 | 0.0000983 | 0.0001659 | 0.33375 | 0 | 0.00302 |
| MinimapRightClicks | 3395 | 0.0003874 | 0.0003770 | 1.31535 | 0 | 0.00404 |
| NumberOfPACs | 3395 | 0.00346 | 0.0009923 | 11.75650 | 0.0006790 | 0.00797 |
| GapBetweenPACs | 3395 | 40.36156 | 17.15357 | 137028 | 6.66670 | 237.14290 |
| ActionLatency | 3395 | 63.73940 | 19.23887 | 216395 | 24.09360 | 176.37210 |
| ActionsInPAC | 3395 | 5.27299 | 1.49484 | 17902 | 2.03890 | 18.55810 |
| TotalMapExplored | 3395 | 22.13166 | 7.43172 | 75137 | 5.00000 | 58.00000 |
| WorkersMade | 3395 | 0.00103 | 0.0005190 | 3.50257 | 0.0000770 | 0.00515 |
| UniqueUnitsMade | 3395 | 6.53402 | 1.85770 | 22183 | 2.00000 | 13.00000 |
| ComplexUnitsMade | 3395 | 0.0000594 | 0.0001111 | 0.20177 | 0 | 0.0009023 |
| ComplexAbilitiesUsed | 3395 | 0.0001419 | 0.0002652 | 0.48168 | 0 | 0.00308 |

| Pearson Correlation Coe Prob > r under H0: R Number of Observat | | | | | | | | | | | |
|---|----------|-------------|----------|--------------|------------|----------|-----------------|-----------------|---------------|----------------|----------------|
| | GameID | LeagueIndex | Age | HoursPerWeek | TotalHours | APM | SelectByHotkeys | AssignToHotkeys | UniqueHotkeys | MinimapAttacks | MinimapRightCI |
| GameID | 1.00000 | 0.10260 | 0.08886 | -0.02546 | 0.00418 | 0.15969 | 0.16080 | 0.13618 | 0.11737 | 0.07404 | 0.04 |
| | | <.0001 | <.0001 | 0.1414 | 0.8093 | <.0001 | <.0001 | <.0001 | <.0001 | <.0001 | 0.0 |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| LeagueIndex | 0.10260 | 1.00000 | -0.12782 | 0.21798 | 0.02388 | 0.66231 | 0.49060 | 0.53112 | 0.35121 | 0.31254 | 0.23 |
| | <.0001 | | <.0001 | <.0001 | 0.1677 | <.0001 | <.0001 | <.0001 | <.0001 | <.0001 | <.0 |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| Age | 0.08886 | -0.12782 | 1.00000 | -0.18451 | -0.01663 | -0.21056 | -0.13118 | -0.10561 | 0.01545 | 0.04339 | -0.01 |
| | <.0001 | <.0001 | | <.0001 | 0.3368 | <.0001 | <.0001 | <.0001 | 0.3722 | 0.0121 | 0.2 |
| | 3340 | 3340 | 3340 | 3339 | 3338 | 3340 | 3340 | 3340 | 3340 | 3340 | 3 |
| HoursPerWeek | -0.02546 | 0.21798 | -0.18451 | 1.00000 | 0.02431 | 0.24684 | 0.20578 | 0.15842 | 0.07020 | 0.08405 | 0.04 |
| | 0.1414 | <.0001 | <.0001 | | 0.1603 | <.0001 | <.0001 | <.0001 | <.0001 | <.0001 | 0.0 |
| | 3339 | 3339 | 3339 | 3339 | 3338 | 3339 | 3339 | 3339 | 3339 | 3339 | 3 |
| TotalHours | 0.00418 | 0.02388 | -0.01663 | 0.02431 | 1.00000 | 0.07285 | 0.08183 | 0.04241 | 0.00932 | 0.00087 | 0.00 |
| | 0.8093 | 0.1677 | 0.3368 | 0.1603 | | <.0001 | <.0001 | 0.0143 | 0.5905 | 0.9597 | 0.6 |
| | 3338 | 3338 | 3338 | 3338 | 3338 | 3338 | 3338 | 3338 | 3338 | 3338 | 3 |
| APM | 0.15969 | 0.66231 | -0.21056 | 0.24684 | 0.07285 | 1.00000 | 0.84069 | 0.57842 | 0.36170 | 0.27102 | 0.32 |
| | <.0001 | <.0001 | <.0001 | <.0001 | <.0001 | | <.0001 | <.0001 | <.0001 | <.0001 | <.0 |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| SelectByHotkeys | 0.16080 | 0.49060 | -0.13118 | 0.20578 | 0.08183 | 0.84069 | 1.00000 | 0.50453 | 0.30210 | 0.19716 | 0.14 |
| | <.0001 | <.0001 | <.0001 | <.0001 | <.0001 | <.0001 | | <.0001 | <.0001 | <.0001 | <.0 |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| AssignToHotkeys | 0.13618 | 0.53112 | -0.10561 | 0.15842 | 0.04241 | 0.57842 | 0.50453 | 1.00000 | 0.42024 | 0.24220 | 0.19 |
| | <.0001 | <.0001 | <.0001 | <.0001 | 0.0143 | <.0001 | <.0001 | | <.0001 | <.0001 | <.0 |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| UniqueHotkeys | 0.11737 | 0.35121 | 0.01545 | 0.07020 | 0.00932 | 0.36170 | 0.30210 | 0.42024 | 1.00000 | 0.18059 | 0.14 |
| | <.0001 | <.0001 | 0.3722 | <.0001 | 0.5905 | <.0001 | <.0001 | <.0001 | | <.0001 | <.0 |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| MinimapAttacks | 0.07404 | 0.31254 | 0.04339 | 0.08405 | 0.00087 | 0.27102 | 0.19716 | 0.24220 | 0.18059 | 1.00000 | 0.24 |
| | <.0001 | <.0001 | 0.0121 | <.0001 | 0.9597 | <.0001 | <.0001 | <.0001 | <.0001 | | <.0 |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| MinimapRightClicks | 0.04658 | 0.23323 | -0.01958 | 0.04942 | 0.00766 | 0.32218 | 0.14337 | 0.19304 | 0.14158 | 0.24227 | 1.00 |
| | 0.0066 | <.0001 | 0.2579 | 0.0043 | 0.6581 | <.0001 | <.0001 | <.0001 | <.0001 | <.0001 | <.0 |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| NumberOfPACs | 0.08964 | 0.61219 | -0.19728 | 0.17495 | 0.03958 | 0.65124 | 0.39851 | 0.48673 | 0.37208 | 0.17734 | 0.17 |
| | <.0001 | <.0001 | <.0001 | <.0001 | 0.0222 | <.0001 | <.0001 | <.0001 | <.0001 | <.0001 | <.0 |

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|-----------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------|
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| GapBetweenPACs | -0.10257 <.0001 | -0.55325 <.0001 | 0.11202 <.0001 | -0.13377 <.0001 | -0.02064 0.2331 | -0.57527 <.0001 | -0.30429 <.0001 | -0.39689 <.0001 | -0.24282 <.0001 | -0.23763 <.0001 | -0.25 <.0 |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| ActionLatency | -0.08722 <.0001 | -0.67394 <.0001 | 0.24035 <.0001 | -0.18877 <.0001 | -0.03570 0.0392 | -0.72240 <.0001 | -0.41539 <.0001 | -0.48219 <.0001 | -0.32310 <.0001 | -0.19990 <.0001 | -0.23 <.0 |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| ActionsInPAC | 0.04726 0.0059 | 0.14312 <.0001 | -0.04541 0.0087 | 0.09509 <.0001 | 0.01070 0.5365 | 0.38399 <.0001 | 0.16328 <.0001 | 0.09367 <.0001 | -0.01640 0.3394 | 0.13480 <.0001 | 0.30 <.0 |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| TotalMapExplored | 0.03231 0.0598 | 0.22068 <.0001 | -0.02460 0.1551 | 0.06500 0.0002 | 0.02049 0.2367 | 0.22075 <.0001 | 0.08348 <.0001 | 0.19293 <.0001 | 0.26465 <.0001 | 0.16639 <.0001 | 0.17 <.0 |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| WorkersMade | -0.01164 0.4979 | 0.29564 <.0001 | -0.09210 <.0001 | 0.05062 0.0034 | 0.01483 0.3918 | 0.34969 <.0001 | 0.14172 <.0001 | 0.18307 <.0001 | 0.10814 <.0001 | 0.07762 <.0001 | 0.20 <.0 |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| UniqueUnitsMade | 0.02120 0.2168 | 0.13351 <.0001 | 0.02302 0.1835 | 0.03855 0.0259 | -0.00238 0.8907 | 0.10084 <.0001 | 0.00612 0.7215 | 0.13283 <.0001 | 0.22503 <.0001 | 0.12083 <.0001 | 0.14 <.0 |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| ComplexUnitsMade | -0.02710 0.1144 | 0.14883 <.0001 | -0.08024 <.0001 | 0.05933 0.0006 | -0.00715 0.6795 | 0.13614 <.0001 | 0.04400 0.0103 | 0.14460 <.0001 | 0.11036 <.0001 | 0.04024 0.0190 | 0.09 <.0 |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| ComplexAbilitiesUsed | 0.00325 0.8500 | 0.14573 <.0001 | -0.06574 0.0001 | 0.07470 <.0001 | -0.00631 0.7155 | 0.13159 <.0001 | 0.06104 0.0004 | 0.15441 <.0001 | 0.10245 <.0001 | 0.04453 0.0095 | 0.09 <.0 |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |

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|----------------------|------|-----------|-----------|----------|-----------|-----------|
| Variable | N | Mean | Std Dev | Sum | Minimum | Maximum |
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| LeagueIndex | 3395 | 4.18409 | 1.51733 | 14205 | 1.00000 | 8.00000 |
| Age | 3340 | 21.64790 | 4.20634 | 72304 | 16.00000 | 44.00000 |
| HoursPerWeek | 3339 | 15.91075 | 11.96291 | 53126 | 0 | 168.00000 |
| TotalHours | 3338 | 960.42181 | 17318 | 3205888 | 3.00000 | 1000000 |
| APM | 3395 | 117.04695 | 51.94529 | 397374 | 22.05960 | 389.83140 |
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| AssignToHotkeys | 3395 | 0.0003736 | 0.0002249 | 1.26829 | 0 | 0.00175 |
| UniqueHotkeys | 3395 | 4.36465 | 2.36033 | 14818 | 0 | 10.00000 |
| MinimapAttacks | 3395 | 0.0000983 | 0.0001659 | 0.33375 | 0 | 0.00302 |
| MinimapRightClicks | 3395 | 0.0003874 | 0.0003770 | 1.31535 | 0 | 0.00404 |
| NumberOfPACs | 3395 | 0.00346 | 0.0009923 | 11.75650 | 0.0006790 | 0.00797 |
| GapBetweenPACs | 3395 | 40.36156 | 17.15357 | 137028 | 6.66670 | 237.14290 |
| ActionLatency | 3395 | 63.73940 | 19.23887 | 216395 | 24.09360 | 176.37210 |
| ActionsInPAC | 3395 | 5.27299 | 1.49484 | 17902 | 2.03890 | 18.55810 |
| TotalMapExplored | 3395 | 22.13166 | 7.43172 | 75137 | 5.00000 | 58.00000 |
| WorkersMade | 3395 | 0.00103 | 0.0005190 | 3.50257 | 0.0000770 | 0.00515 |
| UniqueUnitsMade | 3395 | 6.53402 | 1.85770 | 22183 | 2.00000 | 13.00000 |
| ComplexUnitsMade | 3395 | 0.0000594 | 0.0001111 | 0.20177 | 0 | 0.0009023 |
| ComplexAbilitiesUsed | 3395 | 0.0001419 | 0.0002652 | 0.48168 | 0 | 0.00308 |

| Pearson Correlation Coe Prob > r under H0: R Number of Observat | | | | | | | | | | | |
|---|----------|-------------|----------|--------------|------------|----------|-----------------|-----------------|---------------|----------------|----------------|
| | GameID | LeagueIndex | Age | HoursPerWeek | TotalHours | APM | SelectByHotkeys | AssignToHotkeys | UniqueHotkeys | MinimapAttacks | MinimapRightCI |
| GameID | 1.00000 | 0.10260 | 0.08886 | -0.02546 | 0.00418 | 0.15969 | 0.16080 | 0.13618 | 0.11737 | 0.07404 | 0.04 |
| | <.0001 | <.0001 | 0.1414 | 0.8093 | <.0001 | <.0001 | <.0001 | <.0001 | <.0001 | <.0001 | 0.0 |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| LeagueIndex | 0.10260 | 1.00000 | -0.12782 | 0.21798 | 0.02388 | 0.66231 | 0.49060 | 0.53112 | 0.35121 | 0.31254 | 0.23 |
| | <.0001 | <.0001 | <.0001 | <.0001 | 0.1677 | <.0001 | <.0001 | <.0001 | <.0001 | <.0001 | <.0 |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| Age | 0.08886 | -0.12782 | 1.00000 | -0.18451 | -0.01663 | -0.21056 | -0.13118 | -0.10561 | 0.01545 | 0.04339 | -0.01 |
| | <.0001 | <.0001 | | <.0001 | 0.3368 | <.0001 | <.0001 | <.0001 | 0.3722 | 0.0121 | 0.2 |
| | 3340 | 3340 | 3340 | 3339 | 3338 | 3340 | 3340 | 3340 | 3340 | 3340 | 3 |
| HoursPerWeek | -0.02546 | 0.21798 | -0.18451 | 1.00000 | 0.02431 | 0.24684 | 0.20578 | 0.15842 | 0.07020 | 0.08405 | 0.04 |
| | 0.1414 | <.0001 | <.0001 | | 0.1603 | <.0001 | <.0001 | <.0001 | <.0001 | <.0001 | 0.0 |
| | 3339 | 3339 | 3339 | 3339 | 3338 | 3339 | 3339 | 3339 | 3339 | 3339 | 3 |
| TotalHours | 0.00418 | 0.02388 | -0.01663 | 0.02431 | 1.00000 | 0.07285 | 0.08183 | 0.04241 | 0.00932 | 0.00087 | 0.00 |
| | 0.8093 | 0.1677 | 0.3368 | 0.1603 | | <.0001 | <.0001 | 0.0143 | 0.5905 | 0.9597 | 0.6 |
| | 3338 | 3338 | 3338 | 3338 | 3338 | 3338 | 3338 | 3338 | 3338 | 3338 | 3 |
| APM | 0.15969 | 0.66231 | -0.21056 | 0.24684 | 0.07285 | 1.00000 | 0.84069 | 0.57842 | 0.36170 | 0.27102 | 0.32 |
| | <.0001 | <.0001 | <.0001 | <.0001 | <.0001 | | <.0001 | <.0001 | <.0001 | <.0001 | <.0 |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| SelectByHotkeys | 0.16080 | 0.49060 | -0.13118 | 0.20578 | 0.08183 | 0.84069 | 1.00000 | 0.50453 | 0.30210 | 0.19716 | 0.14 |
| | <.0001 | <.0001 | <.0001 | <.0001 | <.0001 | <.0001 | | <.0001 | <.0001 | <.0001 | <.0 |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| AssignToHotkeys | 0.13618 | 0.53112 | -0.10561 | 0.15842 | 0.04241 | 0.57842 | 0.50453 | 1.00000 | 0.42024 | 0.24220 | 0.19 |
| | <.0001 | <.0001 | <.0001 | <.0001 | 0.0143 | <.0001 | <.0001 | | <.0001 | <.0001 | <.0 |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| UniqueHotkeys | 0.11737 | 0.35121 | 0.01545 | 0.07020 | 0.00932 | 0.36170 | 0.30210 | 0.42024 | 1.00000 | 0.18059 | 0.14 |
| | <.0001 | <.0001 | 0.3722 | <.0001 | 0.5905 | <.0001 | <.0001 | <.0001 | | <.0001 | <.0 |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| MinimapAttacks | 0.07404 | 0.31254 | 0.04339 | 0.08405 | 0.00087 | 0.27102 | 0.19716 | 0.24220 | 0.18059 | 1.00000 | 0.24 |
| | <.0001 | <.0001 | 0.0121 | <.0001 | 0.9597 | <.0001 | <.0001 | <.0001 | <.0001 | | <.0 |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| MinimapRightClicks | 0.04658 | 0.23323 | -0.01958 | 0.04942 | 0.00766 | 0.32218 | 0.14337 | 0.19304 | 0.14158 | 0.24227 | 1.00 |
| | 0.0066 | <.0001 | 0.2579 | 0.0043 | 0.6581 | <.0001 | <.0001 | <.0001 | <.0001 | <.0001 | <.0 |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| NumberOfPACs | 0.08964 | 0.61219 | -0.19728 | 0.17495 | 0.03958 | 0.65124 | 0.39851 | 0.48673 | 0.37208 | 0.17734 | 0.17 |
| | <.0001 | <.0001 | <.0001 | <.0001 | 0.0222 | <.0001 | <.0001 | <.0001 | <.0001 | <.0001 | <.0 |

| | | | | | | | | | | | |
|----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------|
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| GapBetweenPACs | -0.10257 <.0001 | -0.55325 <.0001 | 0.11202 <.0001 | -0.13377 <.0001 | -0.02064 0.2331 | -0.57527 <.0001 | -0.30429 <.0001 | -0.39689 <.0001 | -0.24282 <.0001 | -0.23763 <.0001 | -0.25 <.0 |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| ActionLatency | -0.08722 <.0001 | -0.67394 <.0001 | 0.24035 <.0001 | -0.18877 <.0001 | -0.03570 0.0392 | -0.72240 <.0001 | -0.41539 <.0001 | -0.48219 <.0001 | -0.32310 <.0001 | -0.19990 <.0001 | -0.23 <.0 |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| ActionsInPAC | 0.04726 0.0059 | 0.14312 <.0001 | -0.04541 0.0087 | 0.09509 <.0001 | 0.01070 0.5365 | 0.38399 <.0001 | 0.16328 <.0001 | 0.09367 <.0001 | -0.01640 0.3394 | 0.13480 <.0001 | 0.30 <.0 |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| TotalMapExplored | 0.03231 0.0598 | 0.22068 <.0001 | -0.02460 0.1551 | 0.06500 0.0002 | 0.02049 0.2367 | 0.22075 <.0001 | 0.08348 <.0001 | 0.19293 <.0001 | 0.26465 <.0001 | 0.16639 <.0001 | 0.17 <.0 |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| WorkersMade | -0.01164 0.4979 | 0.29564 <.0001 | -0.09210 <.0001 | 0.05062 0.0034 | 0.01483 0.3918 | 0.34969 <.0001 | 0.14172 <.0001 | 0.18307 <.0001 | 0.10814 <.0001 | 0.07762 <.0001 | 0.20 <.0 |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| UniqueUnitsMade | 0.02120 0.2168 | 0.13351 <.0001 | 0.02302 0.1835 | 0.03855 0.0259 | -0.00238 0.8907 | 0.10084 <.0001 | 0.00612 0.7215 | 0.13283 <.0001 | 0.22503 <.0001 | 0.12083 <.0001 | 0.14 <.0 |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| ComplexUnitsMade | -0.02710 0.1144 | 0.14883 <.0001 | -0.08024 <.0001 | 0.05933 0.0006 | -0.00715 0.6795 | 0.13614 <.0001 | 0.04400 0.0103 | 0.14460 <.0001 | 0.11036 <.0001 | 0.04024 0.0190 | 0.09 <.0 |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |
| ComplexAbilitiesUsed | 0.00325 0.8500 | 0.14573 <.0001 | -0.06574 0.0001 | 0.07470 <.0001 | -0.00631 0.7155 | 0.13159 <.0001 | 0.06104 0.0004 | 0.15441 <.0001 | 0.10245 <.0001 | 0.04453 0.0095 | 0.09 <.0 |
| | 3395 | 3395 | 3340 | 3339 | 3338 | 3395 | 3395 | 3395 | 3395 | 3395 | 3 |