

| VARIABLE | DESCRIPTION & CALCULATION | CONCEPT |
|--|--|---|
| Repo-Individual | An RSE, contributing 1+ interaction within a RS repository in the study. Repo-Individual = GH Username + Repository Name combination | The unit of study. |
| Included Interaction Types | Five types of repository interactions covered by this study. <i>“commit created”, “issue ticket created”, “issue ticket closed”, “issue ticket assigned to individual”, “pull request created”</i> | Interaction Types examined to generate RSE Personas. |
| Unique Interaction Types | UIT = Unique categories of interaction Repo-Individual has made within their repository. (Minimum = 1, Maximum = 5). UIT = +1 for each Unique Included Interaction Type | BREADTH of repository interactions all included types. |
| Repository Contribution <i>[Interaction Type]</i> | RC[type] = Percentage of repo's interactions of [type] by this Repo-Individual. % RC[type] = (Repo-Individual's Number of Interactions of [Interaction Type] / Total Interactions of <i>[Interaction Type]</i> for their Repository) * 100 E.g. Repo has 1000 commits, and a repo-individual created 200: (200 / 1000) * 100 = 20% | DEPTH of repository interactions <i>of a specific type</i> . |
| Mean Repository Contribution | MRC = Mean percentage score across ALL Interaction Types for a Repo-Individual. % MRC = (RC1 + RC2 + RC3 + RC4 + RC5) / Max UIT (5) E.g. Repo-individual's score might be (200/1000 + 10/50 + 5/15 + 0/5 + 1/2) / 5 = 24.6% | DEPTH of repository interactions of <i>all included types</i> . |