

Dataset Facts

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| Dataset BOXRR-23 | |
| Instances Per Dataset 4,717,215 | |
| Metadata | |
| Original Authors | Vivek Nair, UC Berkeley Wenbo Guo, UC Berkeley Rui Wang, UC Berkeley James F. O'Brien, UC Berkeley Louis Rosenberg, Unanimous AI Dawn Song, UC Berkeley |
| Owner | Berkeley RDI Center |
| Creator | Berkeley RDI Center |
| Maintainer | Berkeley RDI Center |
| Version | 2023 |
| URL | rdi.berkeley.edu/metaverse/boxrr-23 |
| DOI | doi.org/10.25350/B5NP4V |
| License | CC BY-NC-SA 4.0 |
| Curated | APR 2023 |
| Original Funding | National Science Foundation National Physical Science Consortium Fannie and John Hertz Foundation Berkeley RDI Center |
| Ongoing Funding | Berkeley RDI Center |
| Keywords | XR, VR, AR, MR, MoCap, HCI, CGI, AI, ML |
| Composition | |
| Data Dictionary | rdi.berkeley.edu/metaverse/boxrr-23/dict.json |
| Format | XROR |
| Timeframe | |
| From | NOV 2017 |
| To | APR 2023 |
| Upstream Sources | BeatLeader (beatleader.xyz) ScoreSaber (scoresaber.com) PolyGone (polygone.art) Steam (steampowered.com) BeatSaver (beatsaver.com) |
| Source | |
| | % of Recordings |
| BeatLeader | 3,525,456 recordings 74.7% |
| ScoreSaber | 1,136,581 recordings 24.1% |
| PolyGone | 55,178 recordings 1.2% |

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| Ethics | |
| Ethics Review | Berkeley OPHS #2023-03-16120 |
| Human Data | Yes |
| Individual Data | Yes |
| Consent Given | Yes |
| Community Involvement | Yes |
| Sensitive Content | Maybe |
| Confidential Data | No |
| Subpopulations | Country |
| Restrictions | rdi.berkeley.edu/metaverse/boxrr-23/dua.pdf |
| Processing | |
| Imputation | None |
| Manipulation | None |
| Completeness | Complete |
| Raw Data Retained | Yes |
| Uses and Distribution | |
| Domains | Security and Privacy Graphics and CGI Human-Computer Interaction Machine Learning |
| Original Use | Authentication |
| Notable Uses | arxiv.org/abs/2302.08927 arxiv.org/abs/2208.05604 arxiv.org/abs/2305.19198 |
| Other Uses | Motion Synthesis Anti-Cheating Score Prediction |
| Prohibited Uses | Deanonimization Sensitive Attributes Health Research |
| Maintenance and Evolution | |
| Corrections or Erratum | None |
| Updates | Annual |
| Description | |
| The BOXRR-23 dataset contains 4,717,215 motion capture recordings generated by 105,852 real users of extended reality (XR) devices, obtained from three broadly publicly-available sources relating to two XR applications, Beat Saber and Tilt Brush. | |