

Package ‘irtDemo’

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Type Package
Title Item Response Theory Demo Collection
Version 0.1.5
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Maintainer Metin Bulus <bulusmetin@gmail.com>
Description Includes a collection of shiny applications to demonstrate or to explore fundamental item response theory (IRT) concepts such as estimation, scoring, and multidimensional IRT models.
Depends R (>= 3.2.4)
Imports shiny (>= 0.13.2), fGarch (>= 3010.82)
License GPL (>= 2)
NeedsCompilation no
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Repository CRAN
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irtDemo	<i>Item Response Theory Demo Collection</i>
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Description

Includes a collection of shiny applications to demonstrate or to explore fundamental item response theory (IRT) concepts such as estimation, scoring, and multidimensional IRT models.

Usage

```
irtDemo(text)
```

Arguments

text argument in quotes referring to the name of shiny application. See details for the list of applications.

Details

text argument can be one of the followings:

- “mle” for *Maximum Likelihood Estimation*
- “est2pl” for *Estimation in 2PL Model*
- “est3pl” for *Estimation in 3PL Model*
- “eapmap” for *Expected a Posteriori (EAP) and Maximum a Posteriori (MAP) Estimation*
- “dich” for *Dichotomous IRT Models*
- “gpcm” for *Generalized Partial Credit and Partial Credit Models*
- “grm” for *Graded Response Model*
- “grsm” for *Generalized Rating Scale and Rating Scale Models*
- “nrm” for *Nominal Response Model*
- “mirt” for *Multidimensional Item Response Theory Model*

Author(s)

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References

Bulus, M., & Bonifay, W. (2022). irtDemo R Package: Pedagogical Interactive Web Applications for Estimation, Scoring, and Multi Dimensionality in Item Response Theory. Anadolu University Journal of Education Faculty, 6(1), 92-108. doi: [10.34056/aujef.913781](https://doi.org/10.34056/aujef.913781)

Examples

```
## Not run:  
  
  irtDemo("eapmap")  
  irtDemo("mirt")  
  
## End(Not run)
```

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