DscoreApp : : CHEAT SHEET

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The Implicit Association Test

The Implicit Association Test (Greenwald et al., 1998) is one of the most commonly used measures for the implicit assessment of attitudes and preferences. It is based on the speed and accuracy with which stimuli representing four different categories (two contrasting objects and positive and negative attributes) are sorted in their belonging category by means of two response keys.

IAT Structure

Block	Function	Left response key	Right response key
1	Practice	Object 1	Object 2
2	Practice	Positive	Negative
3	Associative Practice Mapping A	Object 1 + Positive	Object 2 + Negative
4	Associative Test Mapping A	Object 1 + Positive	Object 2 + Negative
5	Practice	Object 2	Object 1
6	Associative Practice Mapping B	Object 2 + Positive	Object 1 + Negative
7	Associative Test Mapping B	Object 2 + Positive	Object 1 + Negative

IAT *D-score*

Core Procedure:

- **Compute *D-score*** for practice blocks ($D_{practice} = \frac{M_{B6} - M_{B3}}{sd_{B6,B3}}$)
- **Compute *D-score*** for test blocks ($D_{test} = \frac{M_{B7} - M_{B4}}{sd_{B7,B4}}$)
- **Compute** *D-score* $= \frac{D_{practice} + D_{test}}{2}$

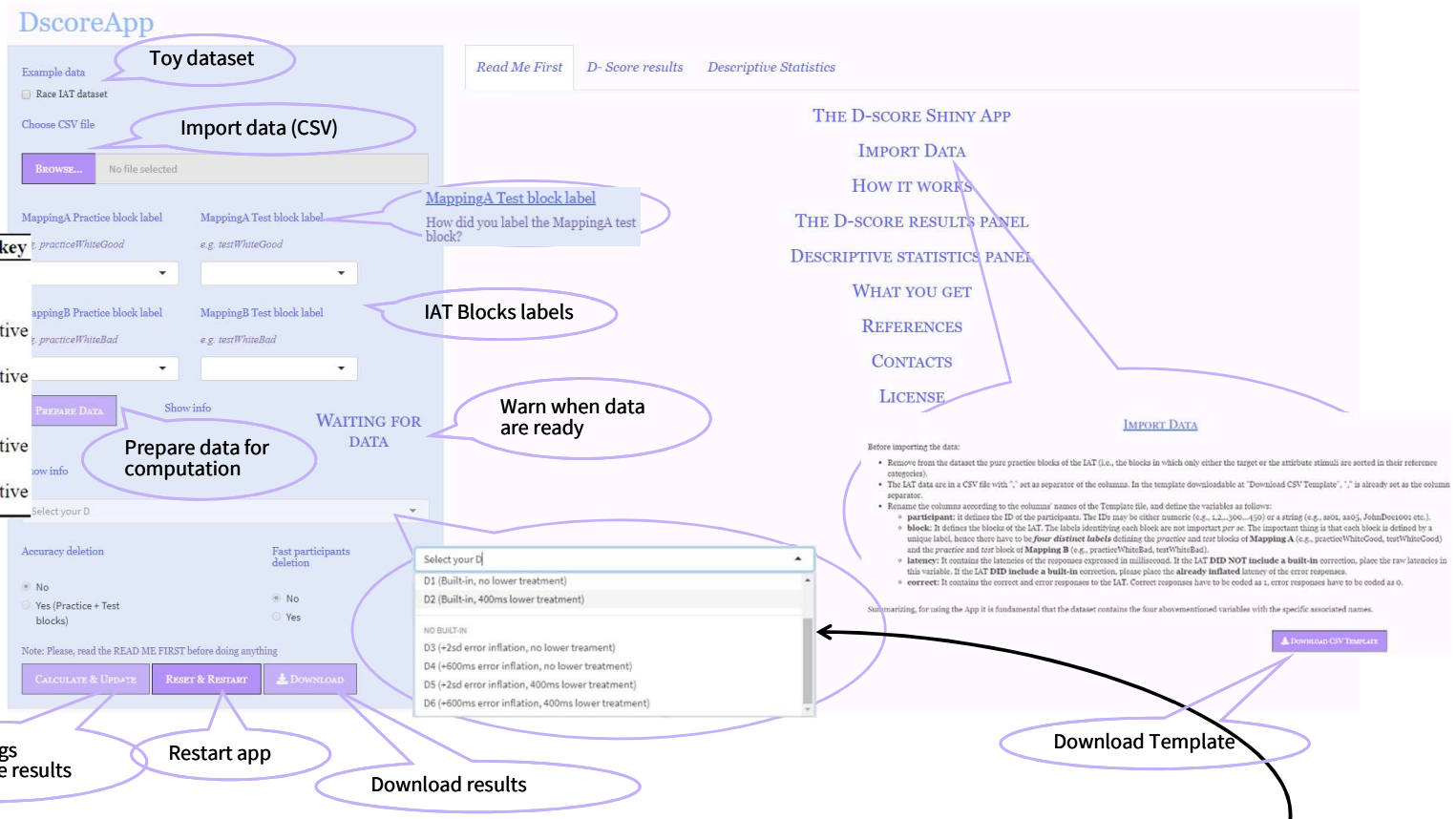
(Trial > 10,000ms are discarded)

Algorithms:

Dscore	Error treatment	Lower tail treatment
D1	Built-in	No
D2	Built-in	< 400ms
D3	Mean + 2sd	No
D4	Mean + 600ms	No
D5	Mean +2 sd	< 400ms
D6	Mean + 600ms	< 400ms

DscoreApp

Appereance & Input



Getting started – Prepare dataset

1. Prepare a CSV file with comma set a separator
2. Get rid of the pure practice blocks (B1, B2, & B5)
3. Name the columns as following:
   - `participant`: Participants'd IDs
   - `block`: IAT blocks labels (4 levels)
   - `latency`: Response times in millisecond
   - `correct`: response accuracy (either 0 or 1)
4. Save the file & upload it with **Browse...**

Getting started – Compute

1. Click on **Prepare Data** and wait for **Data are ready!**
2. Choose a *D-score* from the drop-down menu
3. Discard inaccurate partcipants (Accuracy deletion)?
4. Discard fast partcipants (Fast participants deletion)?
5. Click on **Calculate & Update**

Click this button everytime you want to make a change effective!

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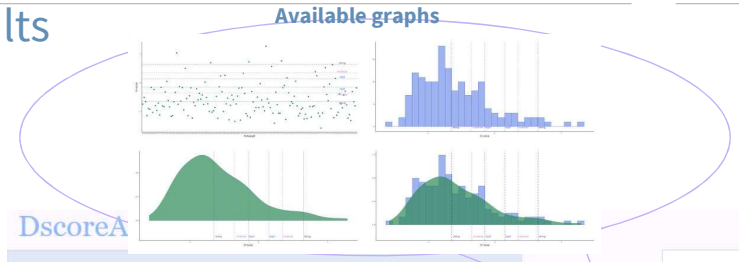
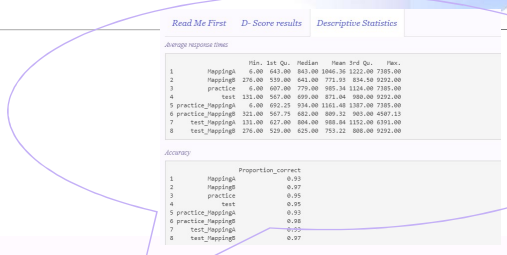
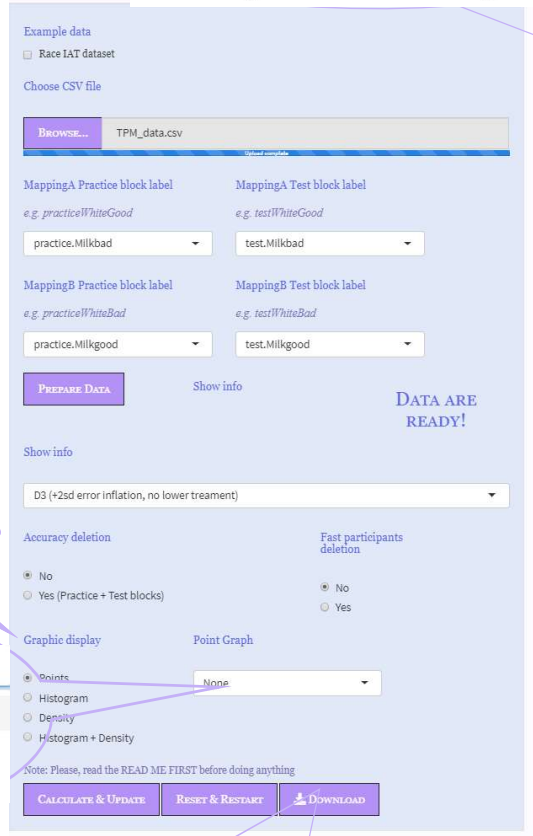
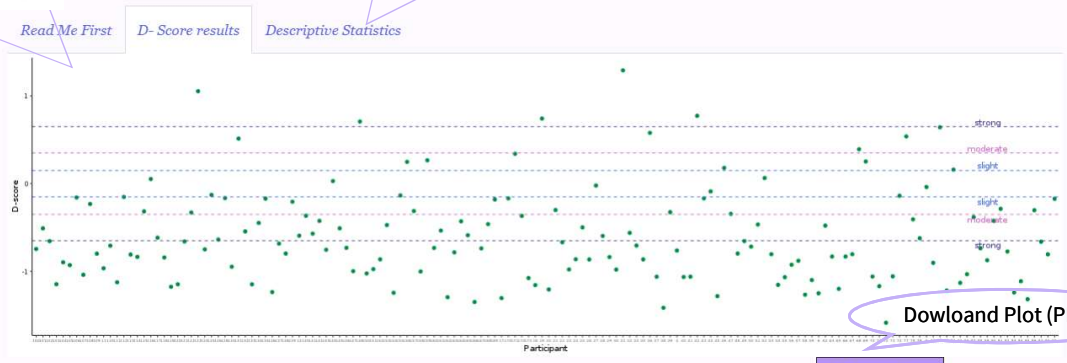
Graphs and Results

Results will appear in the "*D-score results*" Panel. Once the first *D-score* is computed, the DOWNLOAD button is activated, and results can be downloaded in a CSV format. Infos on what's inside the CSV file are available by clicking on the WHAT YOU GET section in the *Read Me First* panel.



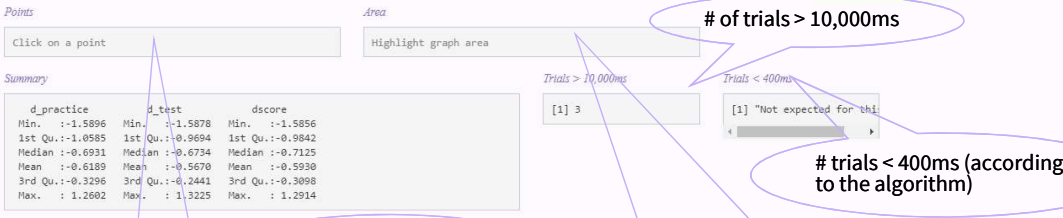






Dowloand Plot (PDF)

DOWNLOAD PLOT

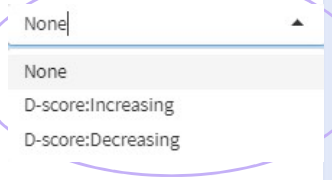


# of trials > 10,000ms

trials < 400ms (according to the algorithm)

Correlation between $D_{practice}$ and D_{test}

Choose graph type



Highlight a graph area:

You'll get the participants' IDs and *D-score*s

Area

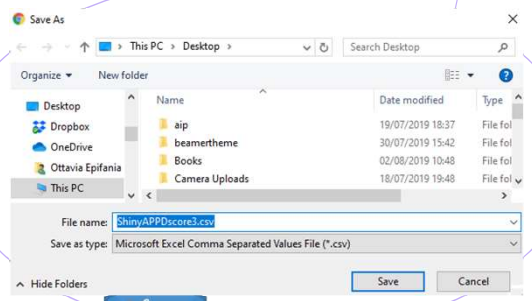
	participant	dscore
1	123	1.0540561
2	148	0.7079581
3	19	0.7420267
4	31	1.2913529
5	42	0.7729035

Select a point in the graph:

You'll get the partcipant's ID and *D-score*

Points

	participant	dscore
1	123	1.054056



http://fisppa.psy.unipd.it/DscoreApp/

https://github.com/OttaviaE/DscoreApp (Source Code)

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