

FAIR tool's Evaluation Tables

1. Online self-assessment survey-based Tool:

Online self-assessment survey-based						
Tool Name	Tool type	Input type	Target object	Applicability	Level of tool's usability	level of understanding questions
FAIR Data Self-Assessment Tool	Online Questionnaires	Multiple choice	Datasets	No Limit	Easy	But the answer options are difficult to understand at first.
FAIR data Self-Assessment Tool	Online Questionnaires	Multiple choice	Datasets	No Limit	Easy	the questions have a pop-up with meanings and guidelines
FAIR-Aware	Online Questionnaires	radio	People's knowledge	No Limit	Easy	understanding the whole assessment procedure
FAIRdat	Online Questionnaires	radio and input textbox for details	Datasets	No Limit	Easy	okay in overall
FairDataBR	Online Questionnaires	multiple choice, radio	Datasets	No Limit	Easy	hard to understand the meaning of questions for basic users
NFDI4Culture FAIR-Check	Online Questionnaires	multiple choice	Datasets	No Limit	easy (25 questions took time to complete)	Easy
SATIFYD	Online Questionnaires	multiple choice	Datasets	No Limit	Easy	Easy

Input details of online self-assessment survey-based tools for the evaluation

Online self-assessment survey-based				
Tool Name	Output type	Level of understanding output	Problems to fix	License
FAIR Data Self-Assessment Tool	PERCENTAGE GREEN BAR (overall principles)	Easy	yes (the email service is not working)	GNU GPLv3 license
FAIR data Self-Assessment Tool	Each principle has a green bar with Percentile and also one bar in total with a green bar and percentage	Easy	No	GNU GENERAL PUBLIC LICENSE Version 3
FAIR-Aware	Score with awareness guidelines	easy	no	Creative Commons Attribution 4.0 International
FAIRdat	Stars out of 5	Easy	yes (the email service is not working). Also, it asks for PID or DOI, but no use of that.	NA
FairDataBR	Pie bar with a score out of 10	medium	yes (need to put the meaning of each question on the pop-up)	NA
NFDI4Culture FAIR-Check	pdf with answers	Easy	no output result but only generated pdf with answers.	CC-BY 4.0
SATIFYD	F, A, I, R blue letters	Easy	no	CC BY 4.0

Output details of online self-assessment survey-based tools for the evaluation

Online self-assessment survey-based

Tool Name	Input data type	Time taken for Assessment(mins)	Type of Output	Detailed Result	User experience	recommend to other
FAIR Data Self-Assessment Tool	Multiple choice	10mins	simple GREEN BAR (overall principles)	no percentage bar only a simple green bar	Good	No
FAIR data Self-Assessment Tool	Multiple choice	11mins 22 secs	F(88%), A(80%), I(87%), R(100%) and in total 90%	Each principle has a green bar with a percentage and in total also has an overall percentage	Best	Yes
FAIR-Aware	Radio	14mins 44 secs	Awareness (10/10), Willingness to comply (40/50)	To increase the knowledge of the FAIR principle.	Best	Yes
FAIRdat	radio and input textbox for details	9 mins 22 secs	F(5 stars), A(5 stars), I (1 star) and $R=(F+A+I)/3$	The star rating is not clear for 4th rule	Good	No
FairDataBR	multiple choice, radio	12mins 34 secs	F (9.40/10), A (9.0/10), I (10/10), R (9.0/10) and in average(9.35/10)	Pie bar for all principles with a decimal score out of 10 and also one average pie bar	Good	No
NFDI4Culture FAIR-Check	multiple choice	14 mins 17secs	pdf only with answered questions	no particular FAIR score but only a PDF with answers that do not make any sense	Good	No
SATIFYD	Multi-select and drop-down multiple-choice questions.	10mins 59 secs	F(88%), A(100%), I(58%), R(85%) and total(83%)	F, A, I, and R letters with FAIR score in each and also in total	Best	Yes

The User 1 side review of the evaluation of FAIR Tools is in detail here. (Online self-assessment survey-based)

2. Online semi-automated Tool:

Online semi-automated

Tool Name	Tool type	Input type	Target object	Applicability	Level of tool's usability	level of understanding questions
FAIRshake	Manual - questionnaire, Semi-manual	Multiple choice	All digital objects	Limits based on linked repositories.	very tough	The metrics are a little difficult to understand

Input details of the online semi-automated tool for the evaluation

Online semi-automated

Tool Name	Output type	Level of understanding output	Problems to fix	License
FAIRshake	colored rubrics	tough	No but (Data Commons puts out for Oauth projects DCPPC in authentication)	CC 4.0

Output details of the online semi-automated tool for the evaluation

Online semi-automated

Tool Name	Input data type	Time taken for Assessment	Type of Output	Detailed Result	User experience	recommend to other
FAIRshake	Multiple choice	20 mins 44 secs	colored Rubric cube (RED, PURPLE, BLUE, WINE)	(Blue-100%, purple-75%, wine red-25% and red-0%) grey means not answered	Bad	No

The User 1 side review of the evaluation of FAIR Tools is in detail here. (Online semi-automated)

3. Online automated Tool:

Online automated tool

Tool Name	Tool type	Input type	Target object	Applicability	Level of tool's usability	level of understanding questions
F-UJI	Automated	Research data object(PID/URL)	Dataset	no limit	Easy	Easy. It has 17 metrics, which means 17 questions.
FAIR EVA (Evaluator, Validator & Advisor)	Automated	DOI or Handle PID	All digital objects, Datasets	Limits based on linked repositories	Hard	F-7 RDA indicators, A-12, I-12, and R-10 indicators.
FAIR Evaluator	Automated	1. URL to the Maturity Indicator Test's smart API YAML 2. Select Maturity Indicators 3. GUID, select a collection, title of evaluation, and personal unique identifier.	All digital objects	Limits due to need for a published dataset	Hard	FAIR Maturity Indicators. F(9 MIs), A(4 MIs), I(7 MIs), R(2 MIs)
FAIR enough	Automated	URL to the resource, or digital object	All digital objects	no limit	Easy	easy. The evaluation score depends on 22 metrics
FAIR-Checker	Automated	URL/DOI	All digital objects	no limit	Easy	12 metrics to test
FOOPS!	Automated	URI	Terminology artifacts	limited to semantic artifacts like vocabularies and ontologies.	Easy	Runs 24 different checks
HowFAIRIs	Automated	Software installation	Software	Depends on Repository	Medium	Livetest
O'FAIRe	Automated	Semantic resources stored in AgroPortal independently or in batch.	Terminology artifacts	ontologies, vocabularies, and semantic	Medium	61 questions among 80%, based on the resource metadata
OpenAIRE Validator - FAIR assessment	Automated	and the repository exists.	All digital objects	no limit	Medium	FAIR validator

Input details of online automated tools for the evaluation

Online automated tool

Tool Name	Output type	Level of understanding output	Problems to fix	License
F-UJI	(FAIR assessment with WEBLINK + SCORE+ PDF REPORT + FAIR LEVEL	Easy	No	NA
FAIR EVA (Evaluator, Validator & Advisor)	PIE chart, BAR chart with colorful (Red, Yellow, Green) with the explanation of each RDA indicator [indicator level, indicator assessment, technical implementation, technical feedback, tips]	Easy	yes[500 internal server error]	CC BY-NC-SA 4.0
FAIR Evaluator	A summary (Description, resource, collection, and observations)and graph appear at the report's top, is so simple green (success) and red (failure) button indicators on each panel for individual tests.	Medium		MIT
FAIR enough	Evaluation score out of 22, percentage, log level with success and failure explanation.	Easy	No	MIT
FAIR-Checker	Principle, Name, Description, Comment, Recommendation, Score, Result, Test, Details and also RADAR CHART	Easy	No	MIT License
FOOPS!	Radar chart, Description, and explanation with percentage for each check	Easy	Yes	CC BY 4.0
HowFAIRIs	[Red, Orange, Yellow, Green] color badge	Medium	yes	(Apache Software License 2.0)
O'FAIRe	FAIR score in average, min, max, and median. Also Radar chart.	Medium	No	CC BY 4.0
OpenAIRE Validator - FAIR assessment	Table with a result of Priority and indicator, RADAR chart, and BAR chart	Medium	yes	CC ATTRIBUTION 4.0 INTERNATIONAL LIC ENSE

Output details of the online automated tool for the evaluation

Online automated tool

Tool Name	Input data type	Time taken for Assessment	Type of Output	Detailed Result	User experience	recommend to other
F-UJI	URL/PID	1min 30 secs for running the tool and 7min 29 secs for understanding the tool's output and in total 8.59 secs.	FAIR LEVEL(initial, moderate, advanced), Summary with a percentile pie chart, explained metrics with 3 different green color tick marks.	(Findable- 6 of 7, ADVANCED level) / (Accessible- 2 of 3, Moderate level) / (Interoperable- 3 of 4, Moderate level)/ (Reusable-4 of 10/ Initial level)	Best	Yes
FAIR EVA (Evaluator, Validator & Advisor)	DOI or Handle PID	3mins 2secs for running the website and 73 mins 53 secs for trying in the local system	PIE chart, BAR chart with colorful (Red, Yellow, Green) with the explanation of each RDA indicator [indicator level, indicator assessment, technical implementation, technical feedback, tips]	127.0.0.1:64871 - "GET /favicon.ico HTTP/1.1" 500 Internal Server Error	NA	NA
FAIR Evaluator	1. URL to the Maturity Indicator Test's smart-API YAML 2. Select Maturity Indicators 3. GUID, select a	27mins 03secs + 21mins 26 secs	A summary (Description, resource, collection and observations)and graph appear at the report's top, Iso simple green (success) and red (failure) button indicators on each panel for individual tests.	NA	NA	NA

	collection, title of evaluation, and personal unique identifier.					
FAIR-enough	URL/PID	1 min 07 secs for metadata, 24secs for maturity indicator, 16 secs for data	score out of 22, percentile of evaluation, failure, and success log explanation	FAIR-enough for metadata 14/16 and 87.5%, for maturity indicators 15/22 and 68.18%, for data 18/22 and 81.82%	Best	Yes
FAIR-checker	URL/PID	1st run took 27mins then stooped and ran again then took 42 secs	Principle, Name, Description, Comment, Recommendation, Score, Result, Test, Details and also RADAR CHART	out of 12 metrics, only 1 failure 'I3', and two metrics got a score of 1 for 'I1' and 'F2A' and others got 2	Best	Yes
FOOPS!	URI	17.35 secs	Overall percentage, Radar chart, details of each check with explanation and description	15% overall, RADAR chart with F(1/9), A(1.50/3), I(0/3), R(1/9)	Good	No
HowFAIRIs	Software	10mins 10secs	An expected badge is equal to the actual badge. It's all good.	Calculated compliance: with 5 badges.	Good	Depends
O'FAIRe	URL	20mins	Bar chart with the total score obtained (i.e., green part) as well as non-obtained points (yellow part) and credits that cannot yet be assigned (grey part) per limits of the current implementation.	NA	NA	NA
OpenAIRE Validator - FAIR assessment	URL	10 mins 41 secs	Table with a result of Priority and indicator, RADAR chart, and BAR chart	A test cannot be done	NA	NA

The User 1 side review of the evaluation of FAIR Tools is in detail here. (Online automated)

4. Offline self-assessment survey based:

Offline self-assessment survey-based						
Tool Name	Tool type	Input type	Target object	Applicability	Level of tool's usability	level of understanding questions
Do I-PASS for FAIR	Self-Assessment	multiple choice and comments	Organizations	limited to organization	easy	medium
FAIRness self-assessment grids	Self-Assessment	Multiple choice and motivation for sharing	All digital objects	no	easy	hard

Input details of offline self-assessment survey-based tools for the evaluation

Offline self-assessment survey-based				
Tool Name	Output type	Level of understanding output	Problems to fix	License
Do I-PASS for FAIR	Answered Pdf	Easy	no	Creative Commons Attribution 4.0 International
FAIRness self-assessment grids	Answered Excel file with points out of some marks	medium	no	Creative Commons Attribution 4.0 International

Output details of the offline self-assessment survey-based tools for the evaluation

Offline self-assessment survey-based					
Tool Name	Input data type	Time taken for Assessment	Type of Output	Detailed Result	User experience
Do I-PASS for FAIR	multiple choice and comments	22 mins 03 secs	Answered Pdf	There is no detailed output graphical view but the downloaded pdf with answers chosen	Good
FAIRness self-assessment grids	Input type '1' in for options	49 mins 46 secs	marks in the answered Excel file	FAIR result: Never 6/45, Mandatory 25/45, Sometimes 8/45, Always 6/45	medium

The User 1 side review of the evaluation of FAIR Tools is in detail here. (Offline self-assessment survey-based)

5. Others:

Others						
Tool Name	Tool type	Input type	Target object	Applicability	Level of tool's usability	level of understanding questions
Data Stewardship Wizard	Predictive; based on a manually filled questionnaire	Web questionnaires	All digital objects	limited to an organization and a big project	tough	medium
TRIPLE Training Toolkit	Manual - questionnaire, Manual - checklist, Also guidelines and template documents	Manual - questionnaire, Manual - checklist,	All digital objects	website to connect other repositories	medium	medium
FAIRplus	project contains technical, hands-on, background, and review categories to address the FAIR data management operation phases,	Manual checklist	All digital objects	practical guidelines and strategies for individuals and organizations across diverse sectors to effectively implement the FAIR principles	easy	medium

Input details of other typed tools for the evaluation

Others				
Tool Name	Output type	Level of understanding output	Problems to fix	License
Data Stewardship Wizard	Measure with colored bars and decimal points out of 1	easy	No	MIT license
TRIPLE Training Toolkit	FAIR-by-design online training events, template materials for dissemination, communication and outreach measurement, survey instruments to assess training needs and training impact	easy	No	Creative Commons Attribution 4.0 International License (CC BY 4.0).

FAIRplus	maturity Level of 5, Representation & Format, Content & Context, Hosting Environment Capabilities, Overall Level % Completion	easy	No	The Creative Commons 4.0 BY license
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Output details of other typed tools for the evaluation

Others						
Tool Name	Input data type	Time taken for Assessment	Type of Output	Detailed Result	User experience	recommend to other
Data Stewardship Wizard	Web questionnaires	49mins	Measure with colored bars and decimal points out of 1	setup with admin credentials	NA	yes (To an organization in the early stage of project DMP)
TRIPLE Training Toolkit	Manual - questionnaire, Manual - checklist,	1 hour 10mins	FAIR-by-design online training events, template materials for dissemination, communication and outreach measurement, survey instruments to assess training needs and training impact	Logged in to the website and created profile	NA	yes (To discover, connect, and collaborate with other repositories, authors, researchers, publishers, and citizens)
FAIRplus	Manual - checklist,	15mins 22secs	maturity Level of 5, Representation & Format, Content & Context, Hosting Environment Capabilities, Overall Level % Completion	Maturity Level1 (64%), Level2 (52%), Level3 (55%), Level4 (43%), Level5 (0%)	medium	yes

The User 1 side review of the evaluation of FAIR Tools is in detail here. (Other typed)