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# Processing and Analyzing PIAAC log files with the PIAAC LogDataAnalyzer (LDA)

- What is PIAAC?
- How to receive the PIAAC log data?
- How to understand the PIAAC log data?
- How to process the PIAAC log data?

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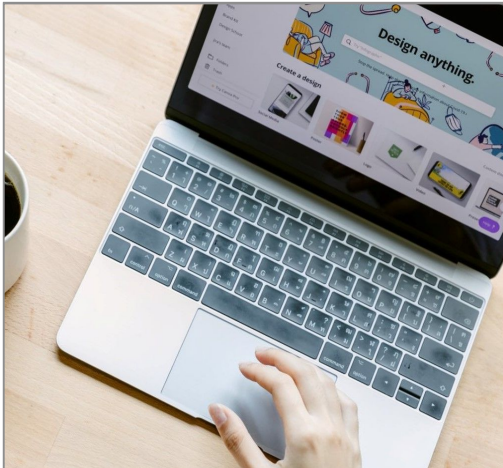
# Processing and Analyzing PIAAC log files with the PIAAC LogDataAnalyzer (LDA)

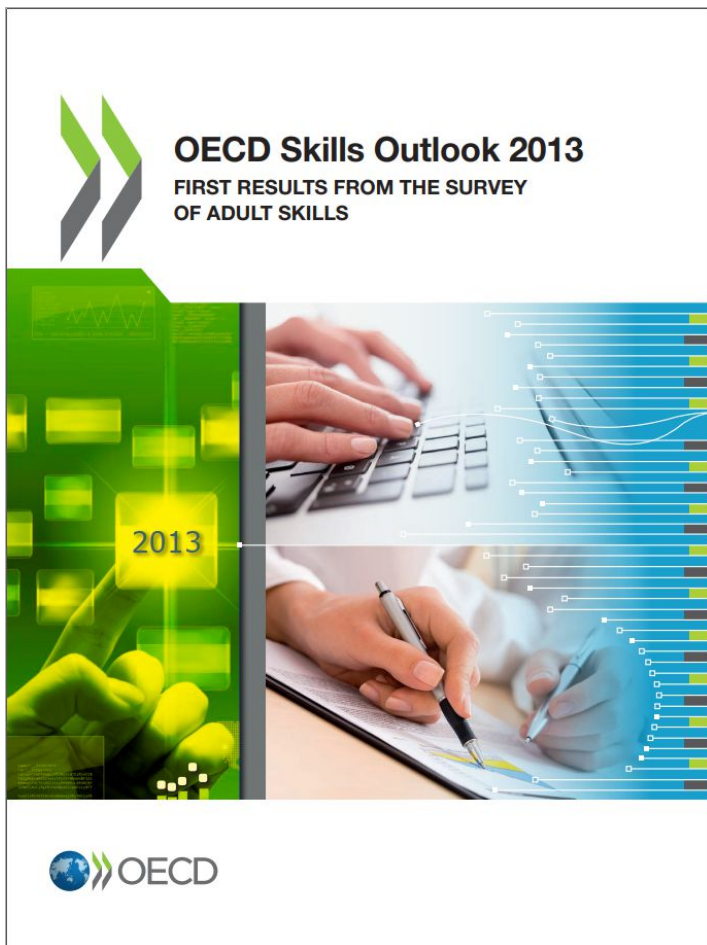
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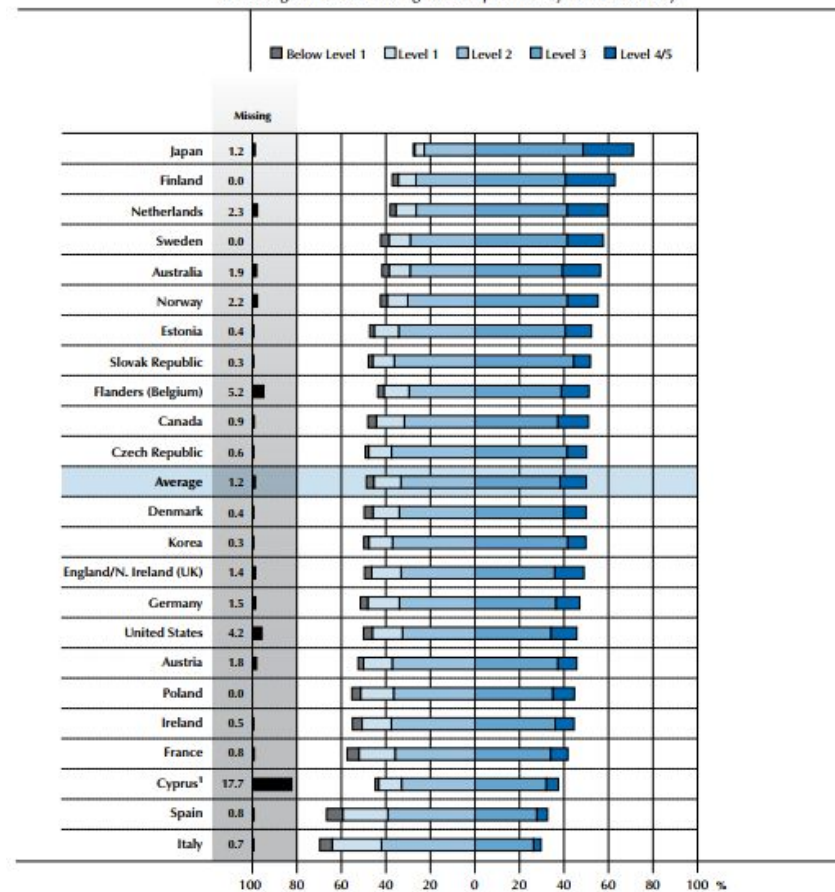
# PIAAC

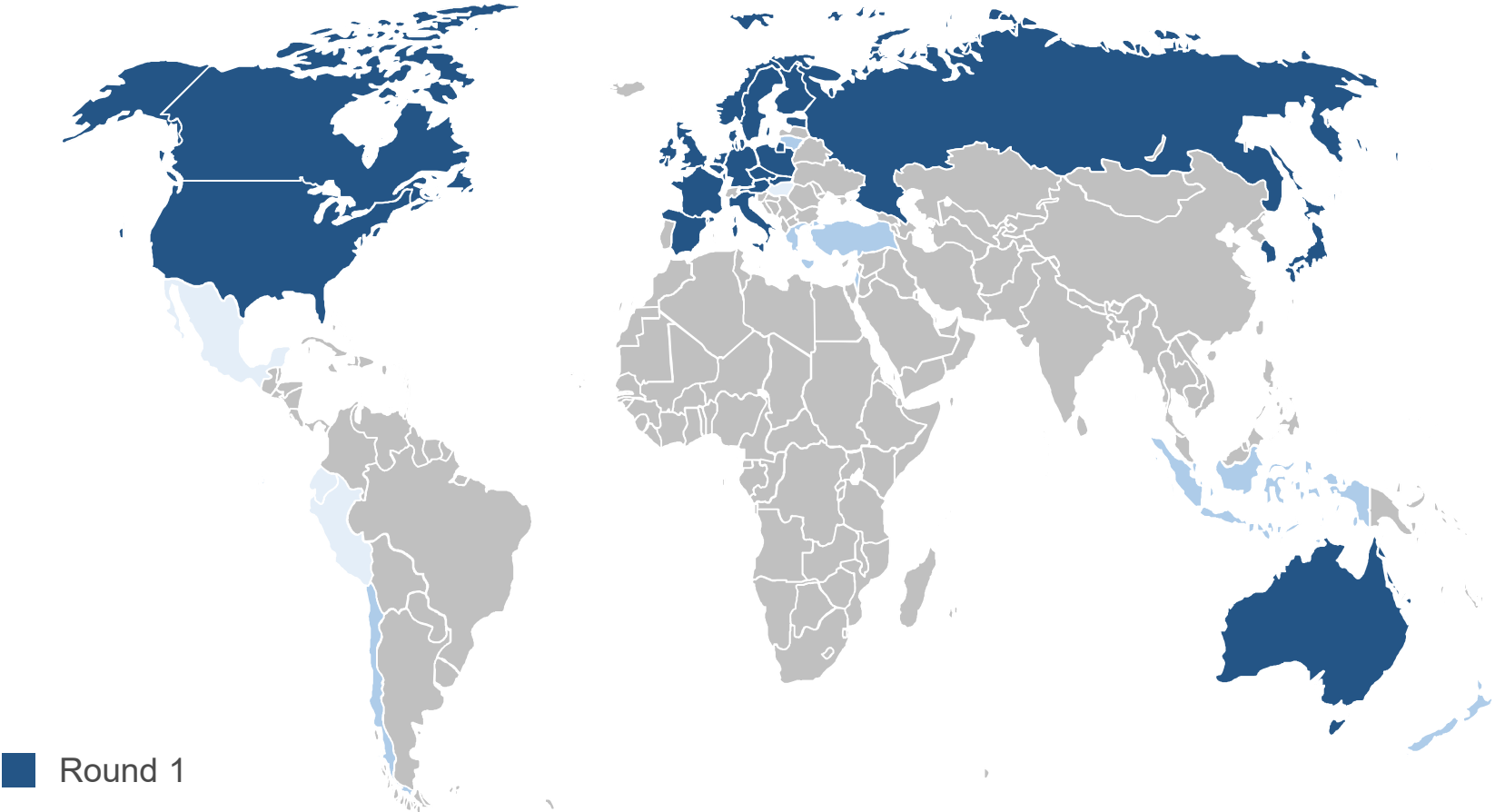
Programme for the International Assessment of Adult Competencies






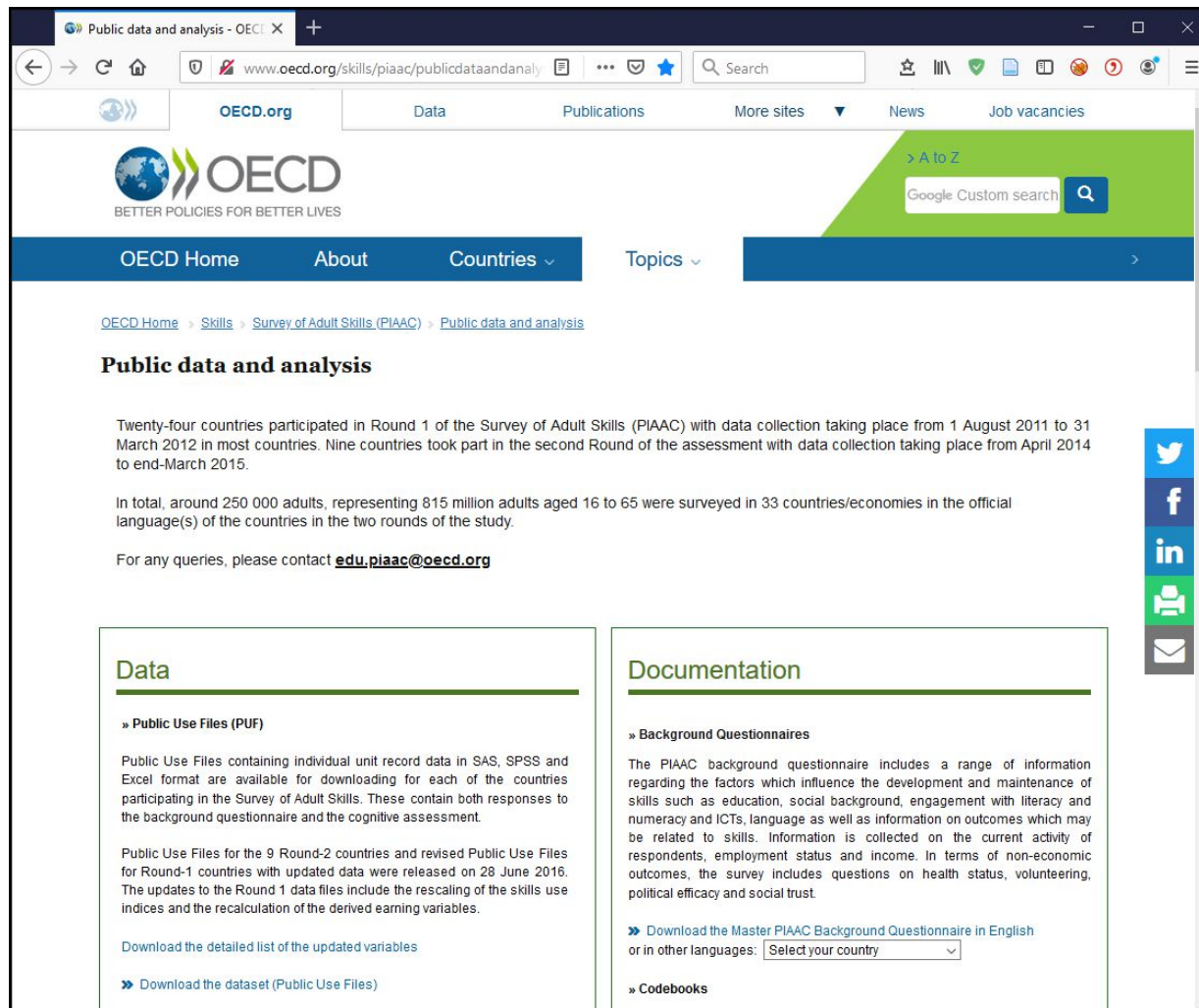


**Literacy proficiency among adults**  
 Percentage of adults scoring at each proficiency level in literacy





-  Round 1
-  Round 2
-  Round 3



Public data and analysis - OECD

www.oecd.org/skills/piaac/publicdataandanaly

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OECD  
BETTER POLICIES FOR BETTER LIVES

OECD Home About Countries Topics

OECD Home > Skills > Survey of Adult Skills (PIAAC) > Public data and analysis

## Public data and analysis

Twenty-four countries participated in Round 1 of the Survey of Adult Skills (PIAAC) with data collection taking place from 1 August 2011 to 31 March 2012 in most countries. Nine countries took part in the second Round of the assessment with data collection taking place from April 2014 to end-March 2015.

In total, around 250 000 adults, representing 815 million adults aged 16 to 65 were surveyed in 33 countries/economies in the official language(s) of the countries in the two rounds of the study.

For any queries, please contact [edu.piaac@oecd.org](mailto:edu.piaac@oecd.org)

### Data

» **Public Use Files (PUF)**

Public Use Files containing individual unit record data in SAS, SPSS and Excel format are available for downloading for each of the countries participating in the Survey of Adult Skills. These contain both responses to the background questionnaire and the cognitive assessment.

Public Use Files for the 9 Round-2 countries and revised Public Use Files for Round-1 countries with updated data were released on 28 June 2016. The updates to the Round 1 data files include the rescaling of the skills use indices and the recalculation of the derived earning variables.

[Download the detailed list of the updated variables](#)

» [Download the dataset \(Public Use Files\)](#)

### Documentation

» **Background Questionnaires**

The PIAAC background questionnaire includes a range of information regarding the factors which influence the development and maintenance of skills such as education, social background, engagement with literacy and numeracy and ICTs, language as well as information on outcomes which may be related to skills. Information is collected on the current activity of respondents, employment status and income. In terms of non-economic outcomes, the survey includes questions on health status, volunteering, political efficacy and social trust.

» [Download the Master PIAAC Background Questionnaire in English](#) or in other languages:

» **Codebooks**



Funding



Data Archiving and  
Management User  
Community



Online Documentation &  
Software Development

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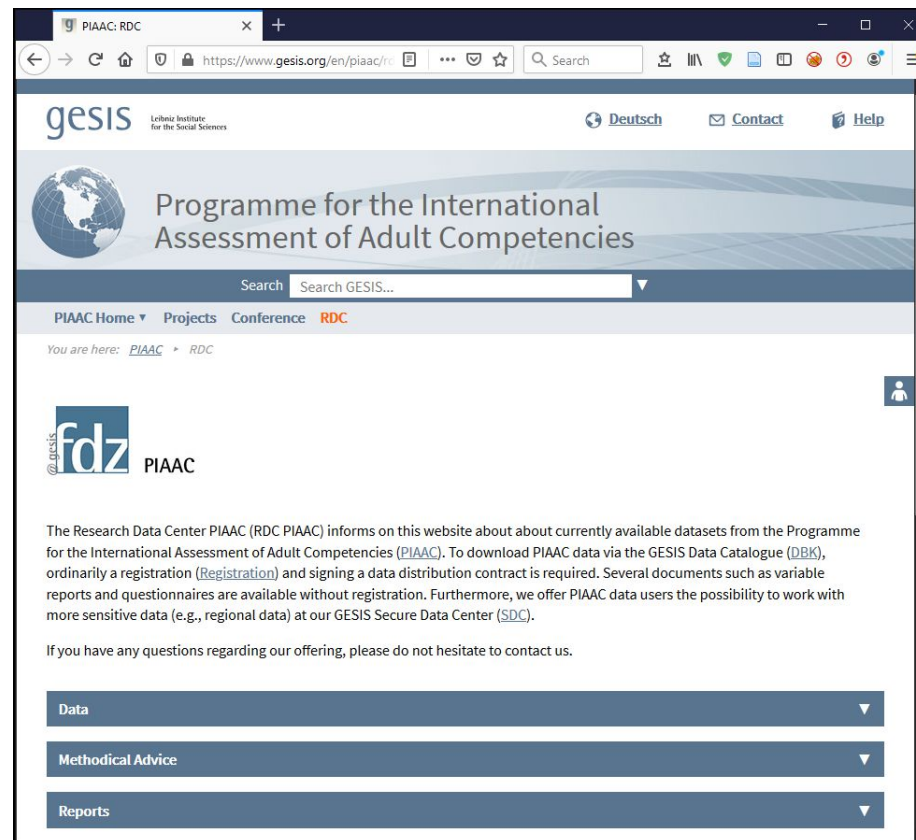


**gesis**  
Leibniz-Institut  
für Sozialwissenschaften

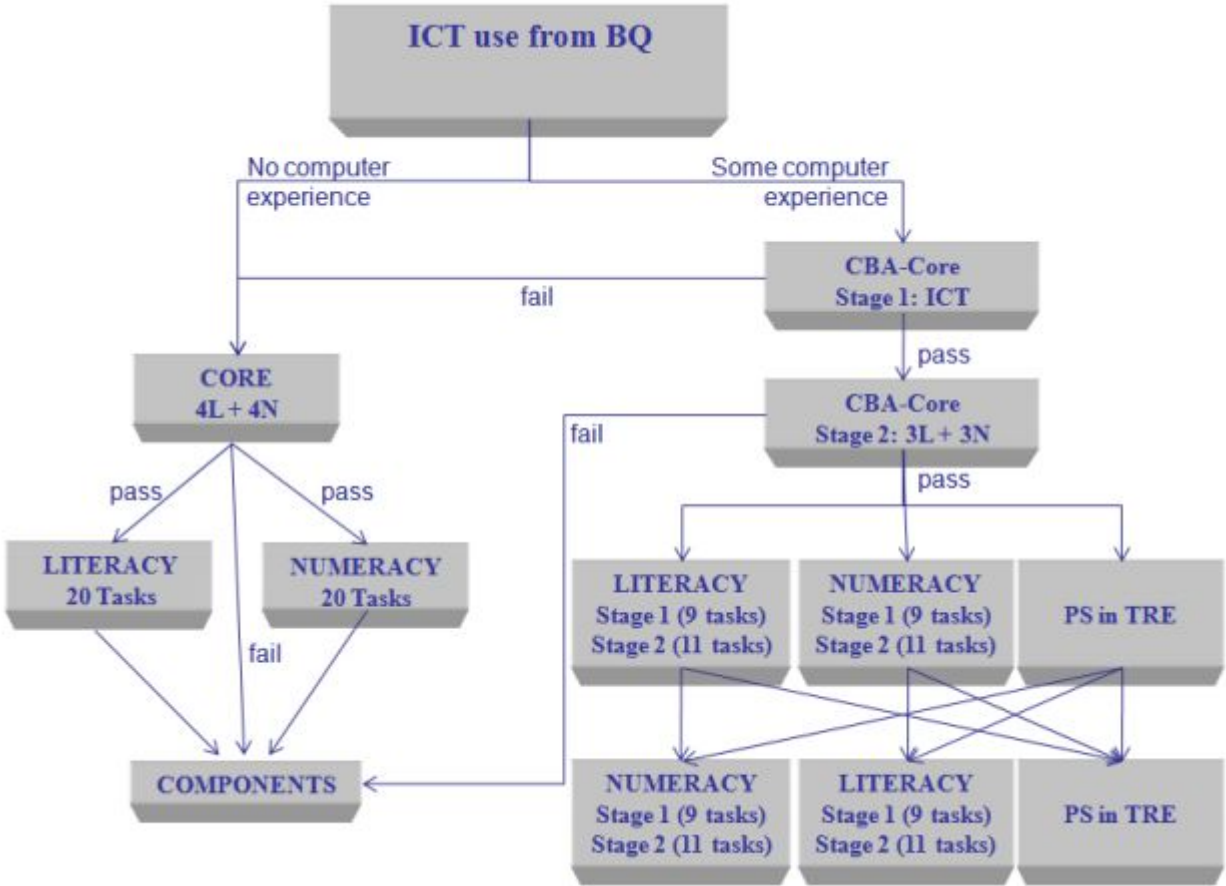


Data Archiving and  
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Community

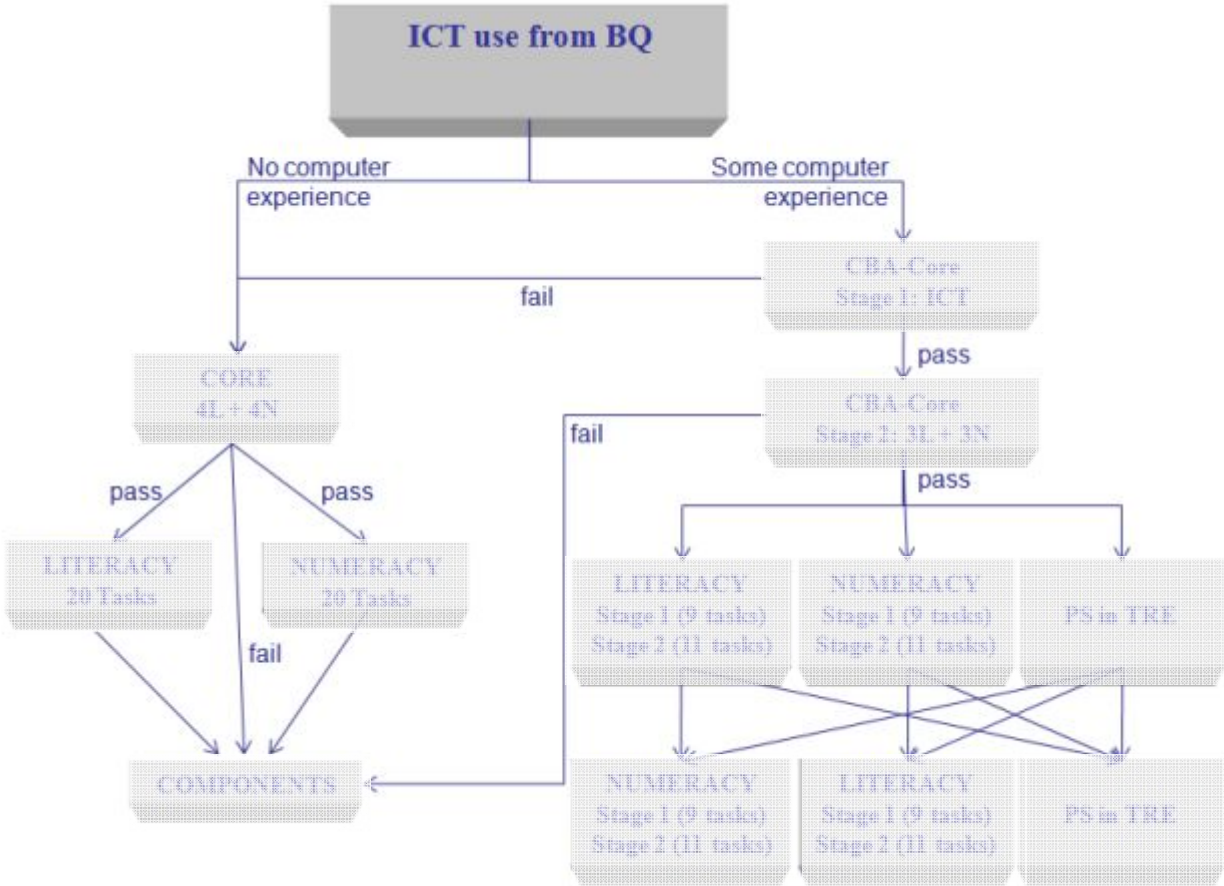
Visit the GESIS Data Catalogue  
<https://www.gesis.org/en/piaac/rdc>



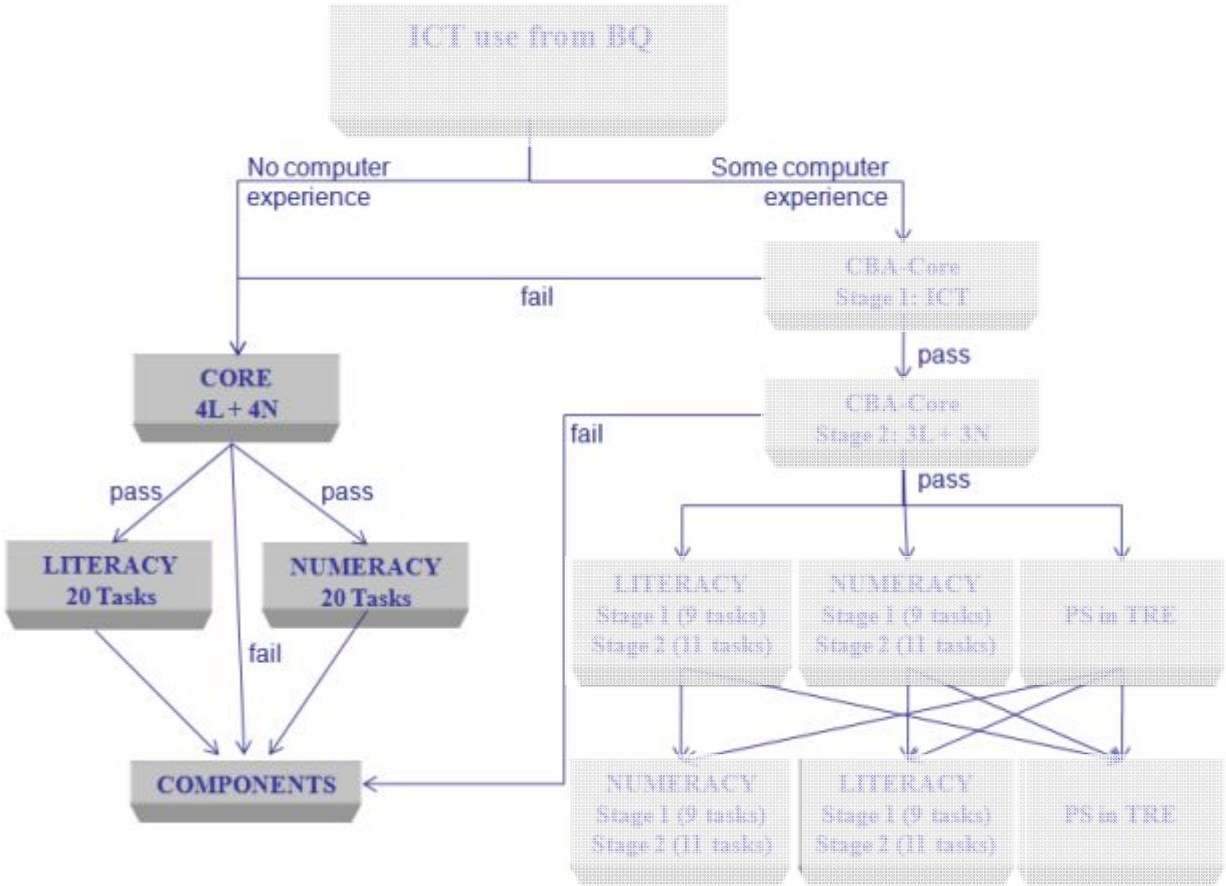
# Design of PIAAC



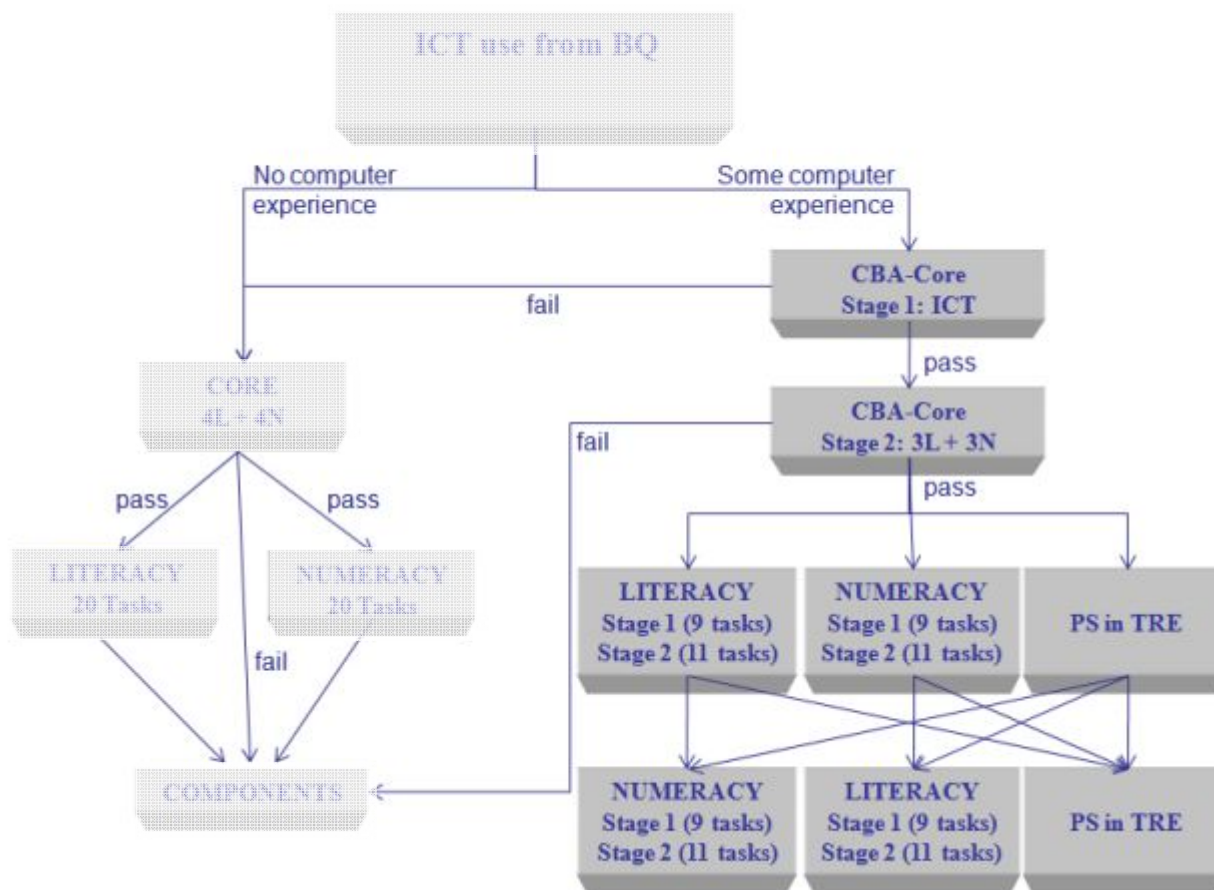
# Design of PIAAC



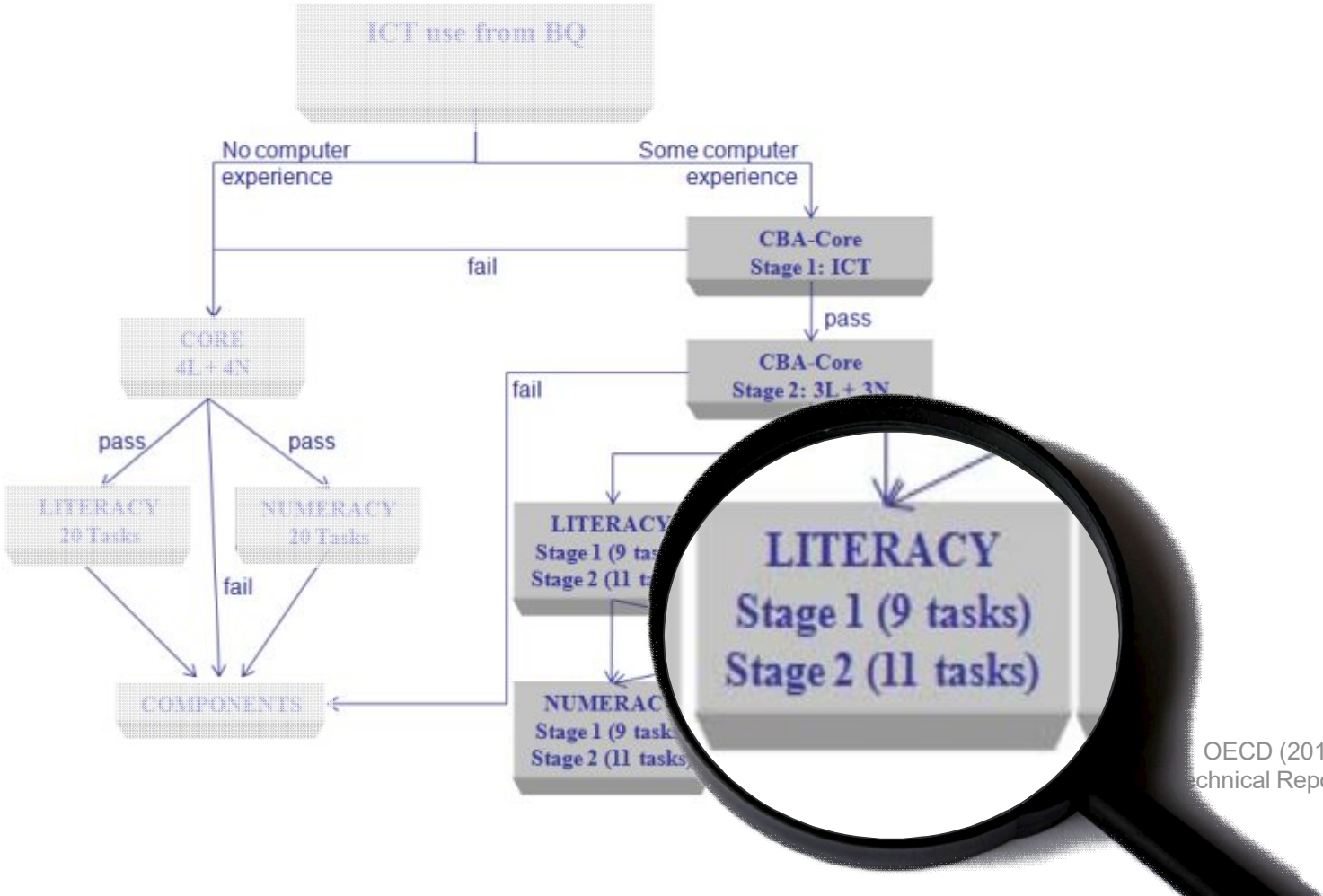
# Design of PIAAC



# Design of PIAAC



# Design of PIAAC



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# Processing and Analyzing PIAAC log files with the PIAAC LogDataAnalyzer (LDA)

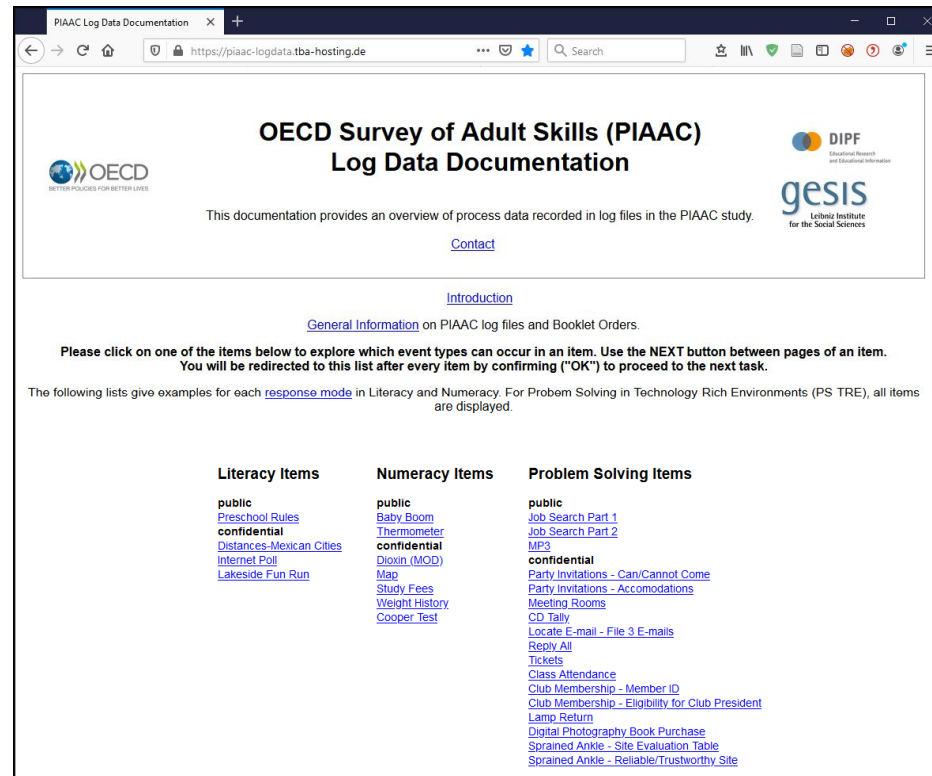
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Visit the PIAAC Online Item Documentation

<https://piaac-logdata.tba-hosting.de>



Online Documentation & Software Development



**OECD Survey of Adult Skills (PIAAC) Log Data Documentation**

This documentation provides an overview of process data recorded in log files in the PIAAC study.

[Contact](#)

[Introduction](#)

[General Information](#) on PIAAC log files and Booklet Orders.

Please click on one of the items below to explore which event types can occur in an item. Use the NEXT button between pages of an item. You will be redirected to this list after every item by confirming ("OK") to proceed to the next task.

The following lists give examples for each [response mode](#) in Literacy and Numeracy. For Problem Solving in Technology Rich Environments (PS TRE), all items are displayed.

Literacy Items	Numeracy Items	Problem Solving Items
<ul style="list-style-type: none"> <li>public</li> <li><a href="#">Preschool Rules</a></li> <li>confidential</li> <li><a href="#">Distances-Mexican Cities</a></li> <li><a href="#">Internet Poll</a></li> <li><a href="#">Lakeside Fun Run</a></li> </ul>	<ul style="list-style-type: none"> <li>public</li> <li><a href="#">Baby Boom</a></li> <li><a href="#">Thermometer</a></li> <li>confidential</li> <li><a href="#">Down (MOD)</a></li> <li><a href="#">Map</a></li> <li><a href="#">Study Fees</a></li> <li><a href="#">Weight History</a></li> <li><a href="#">Cooper Test</a></li> </ul>	<ul style="list-style-type: none"> <li>public</li> <li><a href="#">Job Search Part 1</a></li> <li><a href="#">Job Search Part 2</a></li> <li>MP3</li> <li>confidential</li> <li><a href="#">Party Invitations - Can/Cannot Come</a></li> <li><a href="#">Party Invitations - Accomodations</a></li> <li><a href="#">Meeting Rooms</a></li> <li><a href="#">CD Tally</a></li> <li><a href="#">Locate E-mail - File 3 E-mails</a></li> <li><a href="#">Reply All</a></li> <li><a href="#">Tickets</a></li> <li><a href="#">Class Attendance</a></li> <li><a href="#">Club Membership - Member ID</a></li> <li><a href="#">Club Membership - Eligibility for Club President</a></li> <li><a href="#">Lamp Return</a></li> <li><a href="#">Digital Photography Book Purchase</a></li> <li><a href="#">Sprained Ankle - Site Evaluation Table</a></li> <li><a href="#">Sprained Ankle - Reliable/Trustworthy Site</a></li> </ul>



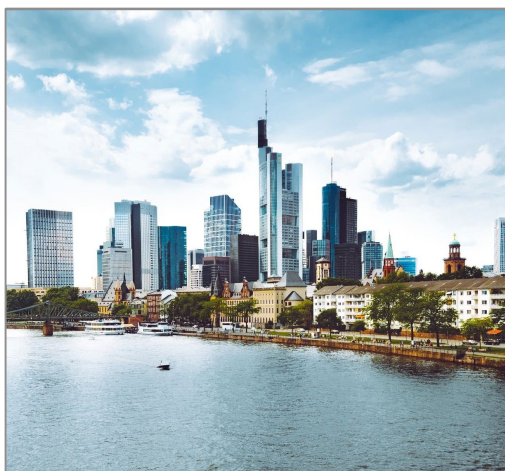
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# The PIAAC LogDataAnalyzer (LDA)

<http://piaac-logdata.tba-hosting.de/download/>



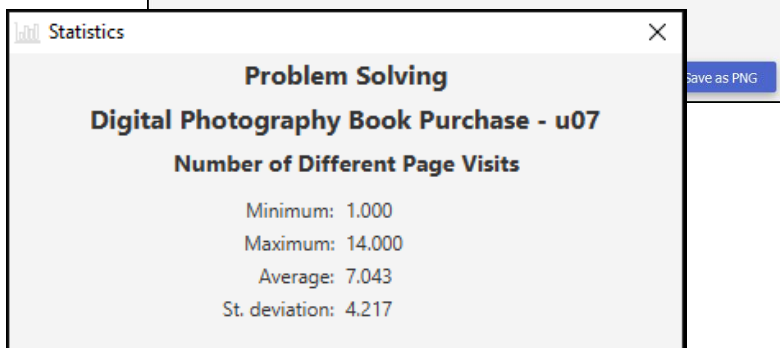
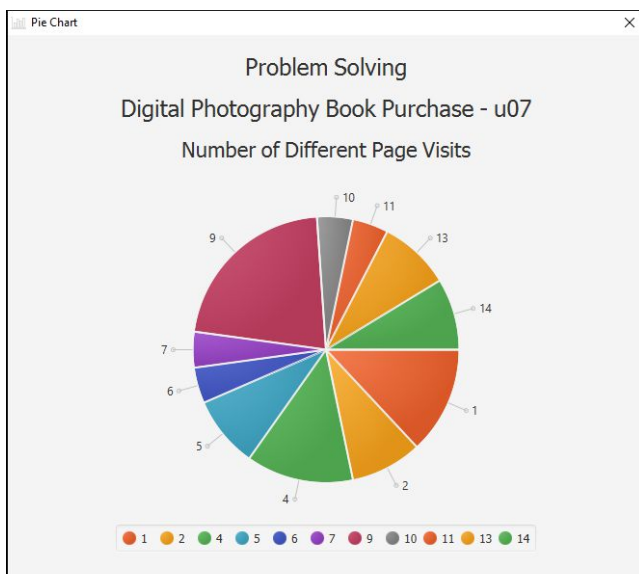
Online Documentation & Software Development

Log Data Analyzer (Plugin: Round 1 - Main Study)

FILE DATA SELECTION HELP

LITERACY	NUMERACY	PROBLEM SOLVING
<input checked="" type="checkbox"/> L11: Dutch Women - C3118701	<input checked="" type="checkbox"/> N11: Candles - C615A602	<input checked="" type="checkbox"/> PS1: Party Invitations - Accommodations - u01a
<input checked="" type="checkbox"/> L11: Internet Poll - C321P001	<input checked="" type="checkbox"/> N11: Candles - C615A603	<input checked="" type="checkbox"/> PS1: Party Invitations - Can/Cannot Come - u01b
<input checked="" type="checkbox"/> L11: Internet Poll - C321P002	<input checked="" type="checkbox"/> N11: BMI - C623A619	<input checked="" type="checkbox"/> PS1: CD Tally - u03a
<input checked="" type="checkbox"/> L11: Baltic Stock Market - C308A117	<input checked="" type="checkbox"/> N11: BMI - C624A620	<input checked="" type="checkbox"/> PS1: Sprained Ankle, Site Evaluation Table - u06a
<input checked="" type="checkbox"/> L11: Baltic Stock Market - C308A119	<input checked="" type="checkbox"/> N11: GasGauge - C604A505	<input checked="" type="checkbox"/> PS1: Sprained Ankle, Reliable/Trustworthy Site - u06b
<input checked="" type="checkbox"/> L11: Baltic Stock Market - C308A120	<input checked="" type="checkbox"/> N11: Photo - C605A506	<input checked="" type="checkbox"/> PS1: Tickets - u21
<input checked="" type="checkbox"/> L11: Baltic Stock Market - C308A121	<input checked="" type="checkbox"/> N11: Photo - C605A507	<input checked="" type="checkbox"/> PS1: Class Attendance - u04a
<input checked="" type="checkbox"/> L11: TMN AntiTheft - C305A215	<input checked="" type="checkbox"/> N11: Photo - C605A508	<input checked="" type="checkbox"/> PS2: Club Membership - Eligibility for Club President - u19a
<input checked="" type="checkbox"/> L11: TMN AntiTheft - C305A218	<input checked="" type="checkbox"/> N11: UrbanPopulation - C650P001	<input checked="" type="checkbox"/> PS2: Club Membership - Member ID - u19b
<input checked="" type="checkbox"/> L12: Mexican Cities Distances - C3158512	<input checked="" type="checkbox"/> N12: GasGauge - C604A505	<input checked="" type="checkbox"/> PS2: Digital Photography Book Purchase - u07
<input checked="" type="checkbox"/> L12: Baltic Stock Market - C308A117	<input checked="" type="checkbox"/> N12: Photo - C605A506	<input checked="" type="checkbox"/> PS2: Meeting Rooms - u02
<input checked="" type="checkbox"/> L12: Baltic Stock Market - C308A118	<input checked="" type="checkbox"/> N12: Photo - C605A507	<input checked="" type="checkbox"/> PS2: Reply All - u16
<input checked="" type="checkbox"/> L12: Baltic Stock Market - C308A119	<input checked="" type="checkbox"/> N12: Photo - C605A508	<input checked="" type="checkbox"/> PS2: Locate Email - File 3 emails - u11b
<input checked="" type="checkbox"/> L12: Baltic Stock Market - C308A121	<input checked="" type="checkbox"/> N12: UrbanPopulation - C650P001	<input checked="" type="checkbox"/> PS2: Lamp Return - u23
<input checked="" type="checkbox"/> L12: TMN AntiTheft - C305A215	<input checked="" type="checkbox"/> N12: Wine - C623A616	
<input checked="" type="checkbox"/> L12: TMN AntiTheft - C305A218	<input checked="" type="checkbox"/> N12: Wine - C623A617	
<input checked="" type="checkbox"/> L12: Contact Employer - C3048710	<input checked="" type="checkbox"/> N12: Package - C657P001	
<input checked="" type="checkbox"/> L12: Contact Employer - C3048711	<input checked="" type="checkbox"/> N12: Tiles - C619A609	
<input checked="" type="checkbox"/> L13: Mexican Cities Distances - C3158512	<input checked="" type="checkbox"/> N13: Wine - C623A616	
<input checked="" type="checkbox"/> L13: Contact Employer - C3048710	<input checked="" type="checkbox"/> N13: Wine - C623A617	
<input checked="" type="checkbox"/> L13: Contact Employer - C3048711	<input checked="" type="checkbox"/> N13: Package - C657P001	
<input checked="" type="checkbox"/> L13: Baltic Stock Market - C308A116	<input checked="" type="checkbox"/> N13: Tiles - C619A609	
<input checked="" type="checkbox"/> L13: Baltic Stock Market - C308A118	<input checked="" type="checkbox"/> N13: EducationalLevel - C632P001	
<input checked="" type="checkbox"/> L13: Summer Streets - C327P001	<input checked="" type="checkbox"/> N13: EducationalLevel - C632P002	
<input checked="" type="checkbox"/> L13: Summer Streets - C327P002	<input checked="" type="checkbox"/> N13: RugProduction - C646P002	
<input checked="" type="checkbox"/> L13: Summer Streets - C327P003	<input checked="" type="checkbox"/> N13: Inflation - C620A610	
<input checked="" type="checkbox"/> L13: Summer Streets - C327P004	<input checked="" type="checkbox"/> N13: Inflation - C620A612	
<input checked="" type="checkbox"/> L21: MEDCO Aspirin - C3078401	<input checked="" type="checkbox"/> N21: Logbook - C613A520	
<input checked="" type="checkbox"/> L21: MEDCO Aspirin - C3078402	<input checked="" type="checkbox"/> N21: Watch - C614A601	
<input checked="" type="checkbox"/> L21: Generic Medicines - C309A319	<input checked="" type="checkbox"/> N21: SixPack1 - C618A607	
<input checked="" type="checkbox"/> L21: Generic Medicines - C309A320	<input checked="" type="checkbox"/> N21: SixPack1 - C618A608	
<input checked="" type="checkbox"/> L21: Generic Medicines - C309A321	<input checked="" type="checkbox"/> N21: ParkinsonMan - N635P001	

Select All   
  Deselect All   
  Select All   
  Deselect All   
  Select All   
  Deselect All



CNTRYID	SEQID	PS2_u07_time_on_task
1	ZA6712_US.data_100	1
2	ZA6712_US.data_100	10
3	ZA6712_US.data_100	11
4	ZA6712_US.data_100	12
5	ZA6712_US.data_100	13
6	ZA6712_US.data_100	14
7	ZA6712_US.data_100	15
8	ZA6712_US.data_100	16
9	ZA6712_US.data_100	18
10	ZA6712_US.data_100	19

Showing 1 to 11 of 81 entries

CNTRYID	SEQID	booklet_id	item_id	event_name	event_type	timestamp	event_description
1	ZA6712_US.data_100	1	L12	taoPIAAC	START	0	TEST_TIME=356
2	ZA6712_US.data_100	1	L12	stimulus	initialized	438	C3158512
3	ZA6712_US.data_100	1	L12	stimulus	cba_event	1135	<cbaloggmodel:CBAItemLogEntry xmlns:cbaloggmod...
4	ZA6712_US.data_100	1	L12	stimulus	cba_event	22135	<cbaloggmodel:ImageMapLogEntry xmlns:cbaloggmod...
5	ZA6712_US.data_100	1	L12	taoPIAAC	NEXT_INQUIRY	23798	REQUEST
6	ZA6712_US.data_100	1	L12	taoPIAAC	NEXT_BUTTON	23798	id=nextinquiry_button
7	ZA6712_US.data_100	1	L12	taoPIAAC	BUTTON	23802	id=nextinquiry_button
8	ZA6712_US.data_100	1	L12	taoPIAAC	DOACTION	23802	action=tao_item.nextinquiry
9	ZA6712_US.data_100	1	L12	stimulus	itemScoreResult	25305	<cbascoringresultmm:itemScore xmiversion=2.0 xmlns:xmi...
10	ZA6712_US.data_100	1	L12	stimulus	ItemScore	25305	<cbascoringresultmm:itemScore xmiversion=2.0 xmlns:xmi...
11	ZA6712_US.data_100	1	L12	stimulus	SnapshotRef	25314	http://localhost:8080/cba-runtime/item?custom_service_han...
12	ZA6712_US.data_100	1	L12	stimulus	END	25314	END
13	ZA6712_US.data_100	1	L12	taoPIAAC	NEXT_ITEM	25316	REQUEST
14	ZA6712_US.data_100	1	L12	taoPIAAC	END	25316	END
15	ZA6712_US.data_100	1	L12	taoPIAAC	START	0	TEST_TIME=344
16	ZA6712_US.data_100	1	L12	stimulus	initialized	235	C308A117
17	ZA6712_US.data_100	1	L12	stimulus	cba_event	936	<cbaloggmodel:CBAItemLogEntry xmlns:cbaloggmod...
18	ZA6712_US.data_100	1	L12	stimulus	cba_event	19009	<cbaloggmodel:ImageMapLogEntry xmlns:cbaloggmod...
19	ZA6712_US.data_100	1	L12	taoPIAAC	NEXT_INQUIRY	20644	REQUEST
20	ZA6712_US.data_100	1	L12	taoPIAAC	NEXT_BUTTON	20644	id=nextinquirv_button

Showing 1 to 20 of 58,401 entries

The screenshot shows the Springer website for the book "Large-Scale Cognitive Assessment: Analyzing PIAAC Data". The page features the Springer logo, a search bar, and navigation links. A promotional banner at the top reads "+++ Read While You Wait - Get immediate ebook access, if available\*, when you order a print book +++". The book cover is displayed on the left, with the title "Large-Scale Cognitive Assessment" and subtitle "Analyzing PIAAC Data". The editors are listed as Maehler, Débora B., and Rammstedt, Beatrice (Eds.). The book is published in 2020 and is available as an Open Access title. On the right, the "Buy this book" section shows the eBook is not available online, while the Hardcover is priced at £44.99. Payment options for Visa, Mastercard, American Express, Discover, and Invoice are listed. Below the purchase options, there are links for "FAQ" and "Policy". The "Services for this Book" section includes links to "Download Product Flyer" and "Download High-Resolution Cover". Social media icons for Facebook, Twitter, LinkedIn, and Google+ are also present. At the bottom, an "About this book" section provides a summary of the book's content, mentioning that it summarizes existing analysing techniques using data from PIAAC, a study initiated by the OECD that assesses key cognitive and occupational skills of the adult population in more than 40 countries. The text concludes with a "Show all" link.

Goldhammer, F., Hahnel, C., & Kroehne, U. (in press). Analyzing log file data from PIAAC. In D. B. Maehler & B. Rammstedt (Eds.), *Large-Scale Cognitive Assessment: Analysing PIAAC Data*. Springer International Publishing.



**Thank you!**

Contact: Carolin Hahnel  
[hahnel@dipf.de](mailto:hahnel@dipf.de)