



ELM Computer Technologies Limited

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RealDoc

Achieve Your Business Goals

Problems in Document Processing

Time-Consuming

Extracting text manually is time-consuming, error prone, and expensive

Error-Prone

Manual operations are difficult to ensure the accuracy, easily leading to data inaccuracies due to human errors.

Costly

Manual processing of documents requires significant human resources, increasing operational costs and requiring more efficient automation solutions.

Reduced Efficiency

Processing time and resource allocation are major concerns when handling large volumes of documents, slowing down business operations.



RealDoc-Anti-counterfeiting function



Signature Detection & Recognition

Combat Fraud with Multi-modal AI

Watermark Extraction

Intelligent Image Description

Multi-language Support

Complex Table Extraction

Handwritten Text Recognition

Authoritative Source Verification

Cross Check with official source

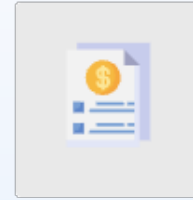


RealDoc-Next-Gen Document Processing



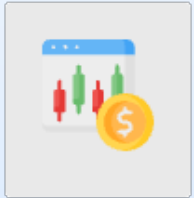
Customer Onboarding And KYC/KYB

- ✓ Identity Documents
- ✓ Company Deeds
- ✓ Company Filings...



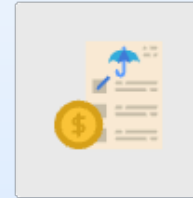
Loan Assessment & Monitoring

- ✓ Bank Statements
- ✓ Financial Statements
- ✓ Credit Bureau Reports
- ✓ Collateral Documents...



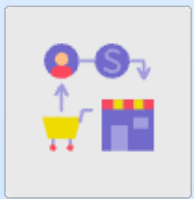
Trade Finance

- ✓ Letters Of Credit
- ✓ Commercial Invoices
- ✓ Bills Of Lading
- ✓ Packing Lists...



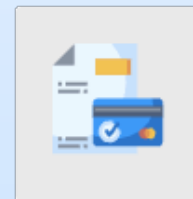
Insurance Claims

- ✓ Invoices And Receipts
- ✓ Ownership Documents
- ✓ Policy Documents...



Sales Processes

- ✓ Inquiries And Quotations
- ✓ Purchase Orders
- ✓ Delivery Orders...



Procurement & Financial Reconciliation

- ✓ Invoices
- ✓ Credit / Debit Notes
- ✓ AP / AR
- ✓ Bank Statements...



RealDoc-Document Extraction

Export in both JSON and Markdown formats

	Pension Plans			Other Retirement Plans		
	2023	2022	2021	2023	2022	2021
Amortization of net actuarial losses and prior service credit	\$ (1)	\$ 3	\$ 11	\$ (1)	\$ —	\$ 1
Settlement (gain) loss	(2)	—	8	—	—	—
Net actuarial loss/gain arising during the period	(3)	(19)	65	1	13	4
Total recognized in OCI—pre-tax	\$ (6)	\$ (16)	\$ 84	\$ —	\$ 13	\$ 5

Visual validation of extracted data

Assumptions—Retirement Plans

	Pension Plans			Other Retirement Plans		
	2023	2022	2021	2023	2022	2021
Discount rate	4.75%	4.83%	4.75%	4.98%	—	—
Rate of compensation increase	3.80%	3.83%	—	—	—	—

Accurate parsing of complex table structures

	Pension Plans			Other Retirement Plans		
	2023	2022	2021	2023	2022	2021
Expected return on plan assets	6.95%	6.05%	5.49%	—	—	—
Rate of compensation increase	3.83%	3.83%	3.42%	—	—	—
Cash balance plan interest crediting rate	8.80%	8.80%	8.80%	—	—	—

Flexible Template Engine

Tailor extraction to any document type. Customize powerful templates by defining keywords, data ranges, and output formats to achieve highly precise and consistent information retrieval.

Various Document Recognition

Accurately extract data from both printed and handwritten text across a wide range of global languages.

- Watermark Extraction
- Smart Checkbox Handling
- LaTeX Equation Recognition
- Complex Table Extraction
- Intelligent Image Description
- Handwritten Text Recognition



RealDoc-Forgery Detection

CHASE
JPMorgan Chase Bank, N.A.
P O Box 182051
Columbus, OH 43218 - 2051

10 September, 2020 to 09 October, 2020
Account Number: 4235 6985 1129

CUSTOMER SERVICE INFORMATION
Web site: Chase.com
Service Center: 1-888-262-4273
Deaf and Hard of Hearing: 1-800-242-7383
International Calls: 1-713-262-1679

00003429 DRI 802 219 30321 NNNNNNNNNN 1 000000000 60 0000

Harry's Hotdog House
123 Meat Street
Omaha, NB 12345

SUMMARY Chase Sapphire CHECKING

	AMOUNT
Starting Balance	\$2,935.81
Deposits and additions	24,455.74
Withdrawals and payments	-13,435.48
Ending Balance	\$13,956.07

Detect Signals CAPTURE DETECT

9 Signals in Document

- 3 Editing Software Detected +
- 1 Account Number Edits +
- 1 Account Holder Edits -
Account Holder was modified as follows

Page	Tampered Text	Original Text
1	Harry's Hotdog House	

- 2 Account Holder Address Edits +
- 2 Account Type Edits +

Deeper detailed analysis report

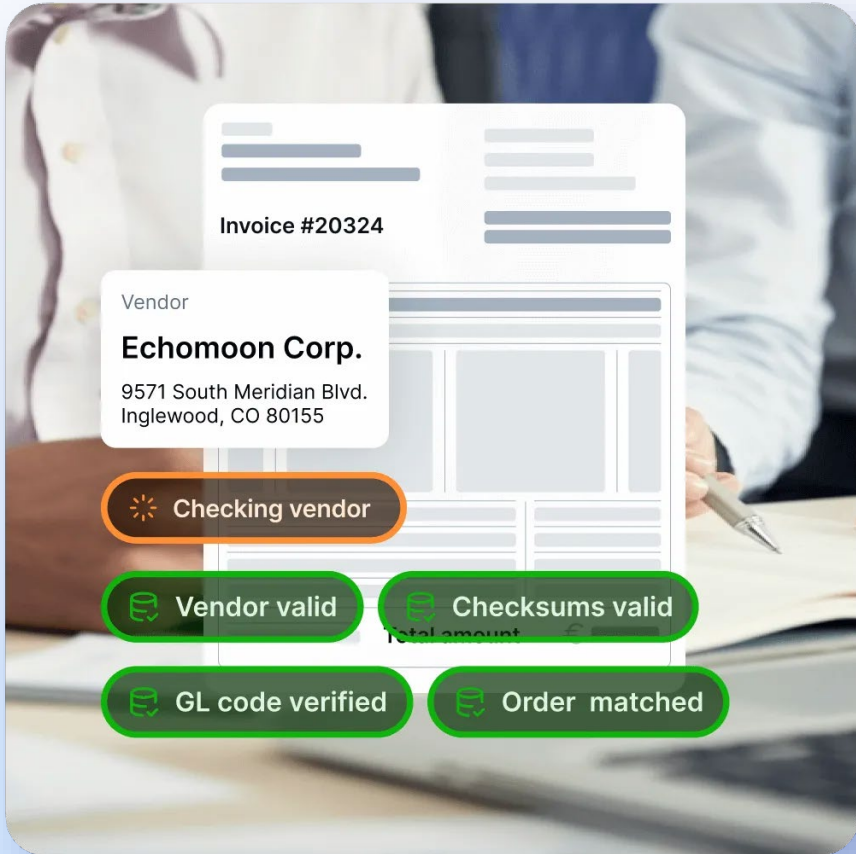
Continuous Adversarial Improvement

Rapid Defense Reinforcement

- Tampering Detection & Visualization
 - Photoshop Tampering
 - Physical Tampering
- Black White Copy Detection
- Other counterfeiting methods



RealDoc-Intelligent Comparison



Cross-Document Comparison

Instantly extracts and highlights any discrepancies in text, figures, or clauses between different document versions like contracts or reports.

Cross-Language & Format Analysis

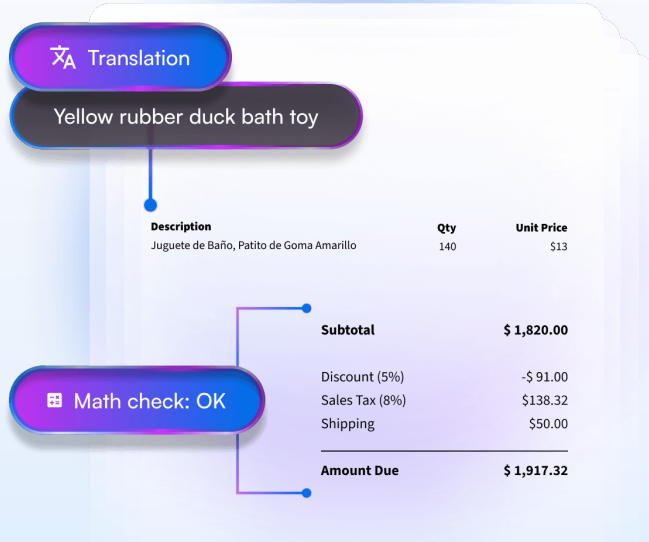
Go beyond simple text matching. Compare documents in different languages (e.g., English vs. Chinese) and automatically convert currencies, units, and data formats for a true like-for-like analysis.

Authoritative Source Verification

Validate key information (like company names, IDs) by automatically checking it against official databases or internal systems via API to confirm its authenticity.

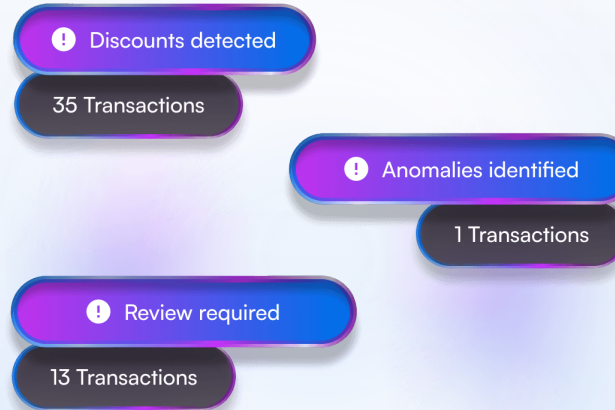


RealDoc-Document Insight



Content Intelligence

Automatically identifies core themes, analyzes sentiment, mines key entities and their relationships, and generates concise summaries.



Logical Integrity & Risk Analysis

Deep-scans documents to detect internal contradictions and data discrepancies. For contracts and proposals, it can assess potential risks like missing clauses or ambiguous terms based on a rules engine.



Visual & Layout Analytics

Evaluates the document's professionalism and brand consistency based on its layout, color scheme, and typography.



RealDoc-Architecture



Retail



Banking



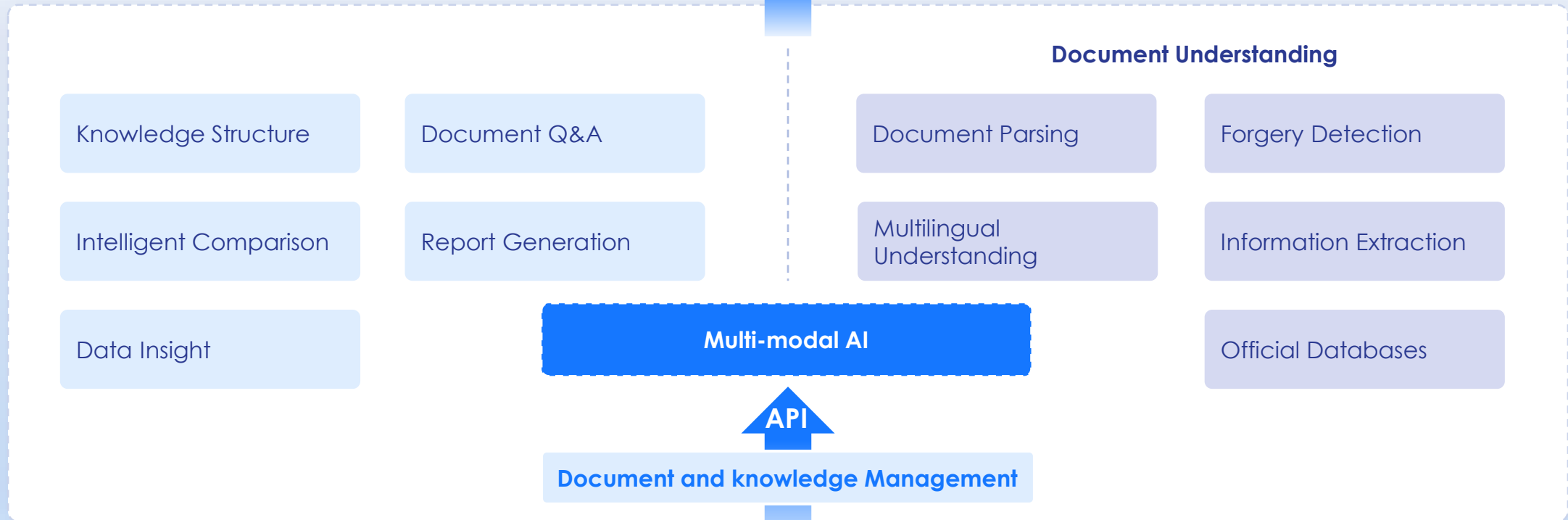
Government



Finance



Insurance



Bank Statement, Address Proof
Contract, Invoice, Receipt etc...



RealDoc-Advantages

Business Documents

Structured



Semi-Structured



Un-Structured



RealDoc

Document
Extraction

Cross
Matching

Forgery
Detection

Document
Insight

Instant Value

Document Extraction

- Multi-language
- Multi-content
- Flexible Template

Cross Matching

- Document Comparison
- Language Analysis

Forgery Detection

- Tampering Detection
- Deepfake Detection Tampering Visualization

Document Insight

- Content Intelligence
- Logical Integrity & Risk Analysis
- Visual & Layout Analytics

RealDoc-Advantages



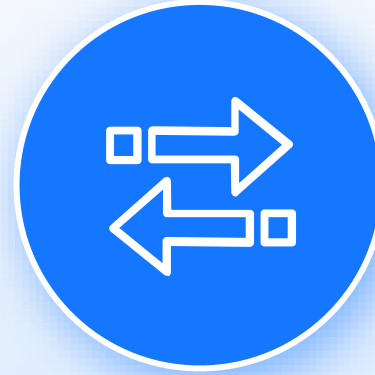
Accuracy

Use large language models to extract and summarize information, which greatly improves the accuracy of information extraction.



Specialized

Besides general docs, it is also suitable for extracting information from industry documents in automotive, retail, financial, etc.



End to End

Provide a complete solution from extraction to document understanding and application construction.



Flexible

Provide More flexible deployment and secure usage solutions to the customers.

