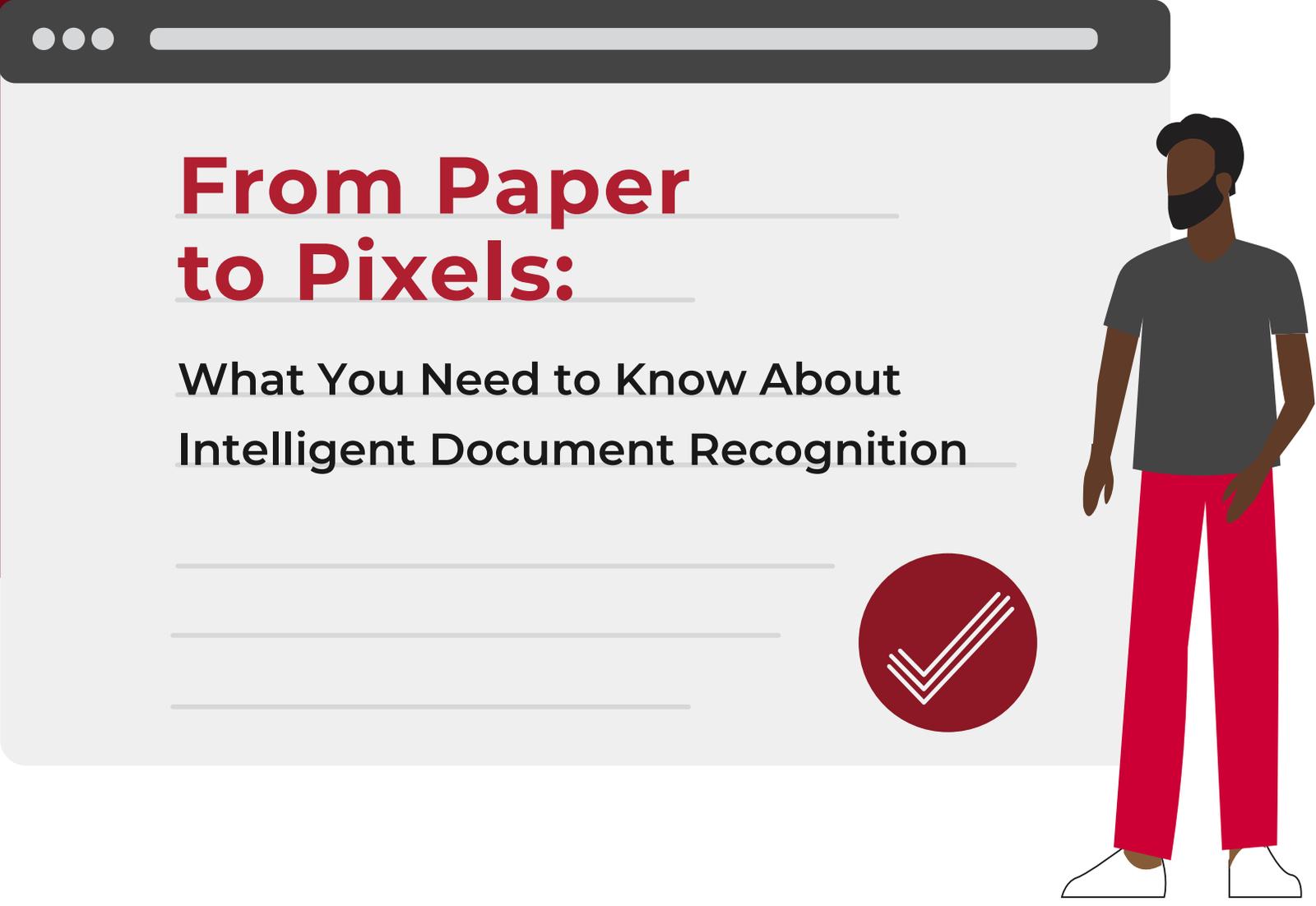




# From Paper to Pixels:

What You Need to Know About  
Intelligent Document Recognition



## What is Intelligent Document Recognition (IDR)?

Intelligent Document Recognition (IDR) is an Oracle Fusion Cloud ERP application that extracts invoice information from documents to create invoices and import them into Payables. Many suppliers and customers choose to send and receive Payables invoices electronically via email. IDR can process these invoices and extract the required fields to create invoices within Oracle Payables.

IDR supports the entire invoice lifecycle with a seamless and secure user experience which enables customers to quickly process supplier invoices from entry to payment. Additionally, IDR uses machine learning to improve information extraction. By adjusting incorrect invoice fields, IDR improves its understanding of the best ways to extract invoice information. As IDR continues to learn, it increases in accuracy and invoice recognition for the future.



## Features and Benefits of IDR:

IDR allows any enterprise to increase productivity and reduce costs by reducing manual data entry. The application also automates data capture from documents and data types within the document. Documents classification through IDR is based on layout, presence of images or logos, regions of data, presence of keywords or patterns, and ultimately the content itself. It also allows artificial intelligence (AI) to predict the accounting distribution combination based on recurring supplier document types delivered.



## IDR for Automated Payments Invoices:

The IDR process begins with offices, suppliers, or corporate servers receiving the invoice. It then transitions to Oracle Cloud processing where complete invoices are extracted and ready for payment. If invoices are found to be incomplete, then additional routing and corrective user interaction must take place before the invoice is ready for payment. IDR will alert users to incomplete invoices and only require intervention when certain aspects on the invoice have not been recognized.

IDR supports multiple documents that are converted and saved as PDF, including .DOCX, .JPG, .TIFF, and .PNG. All IDR configurations are done in the Functional Setup Manager under the following sectors – Setup and Maintenance>Financials>Payables>Manage Intelligent Document Recognition Options. At this point you will be able to view your email address as well as set your options. To learn more about Oracle Intelligent Document Recognition, check out Elire's [IDR highlights](#).

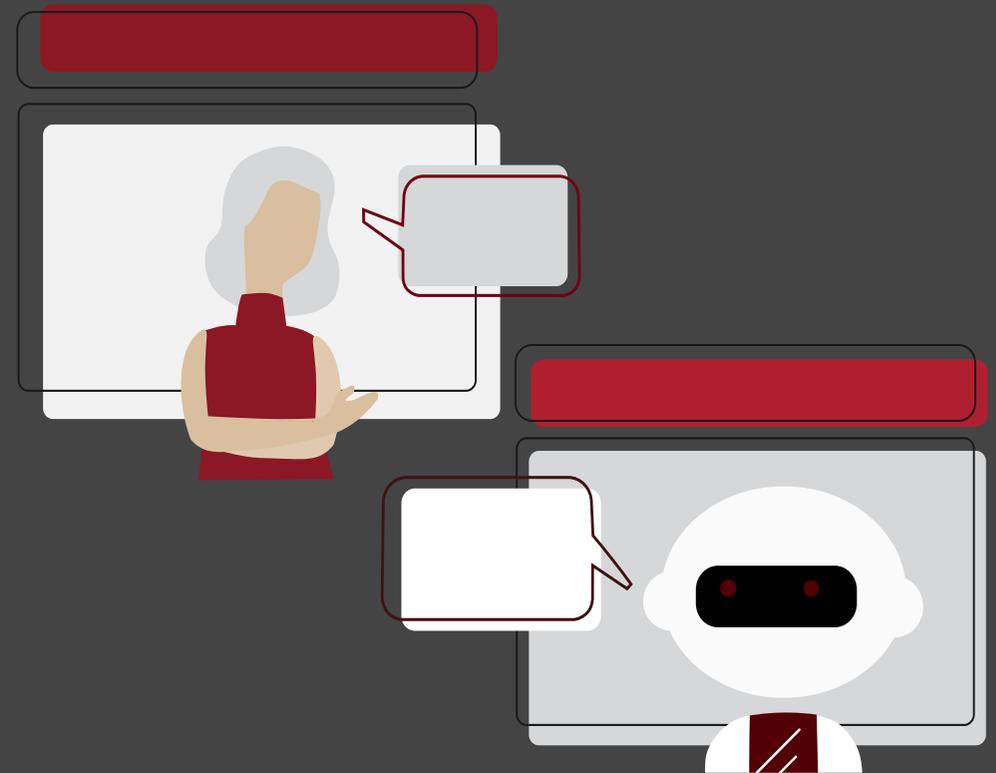


# Intelligent Document Recognition vs Optical Character Recognition (OCR):

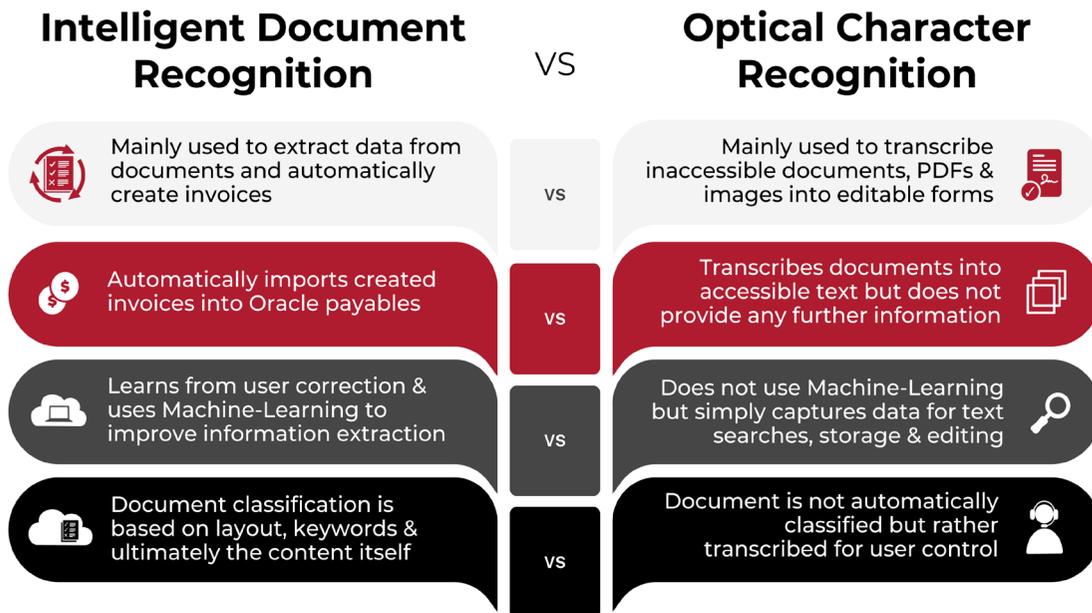
Oracle Optical Character Recognition (OCR) is a Cloud feature that automatically captures key data points within a scanned document, image-only pdfs, and camera images. OCR software pinpoints words on images and strings them together to create sentences.

This technology allows users to access and edit original content, which was previously inaccessible. OCR saves corporations manhours, as it eliminates the need for manual data entry.

One of the more common uses for Optical Character Recognition is turning hard copy documents into pdf documents that can be formatted, edited, and searched. OCR uses pattern recognition to identify different fonts and formats within a document.



# Intelligent Document Recognition vs Optical Character Recognition (OCR):



Oracle Intelligent Document Recognition and Optical Character Recognition have many common features including centralizing and securing data, ensuring up-to-date information, and user data extraction capabilities. However, there are quite a few differences between IDR and OCR, the figure to the left illustrates the key differentiators.

Both IDR and OCR have costs and benefits, but if you are looking for a more comprehensive data extraction software, Intelligent Document Recognition is the way to go. IDR's machine learning functions and automatic invoice processing will save you countless manhours and streamline your data extraction process. Learn more about these data retrieval systems by viewing Elire's IDR vs OCR blog post.

# Transitioning from Optical Character Recognition to Intelligent Document Recognition:

Although both OCR and IDR offer helpful data extraction capabilities, if you are looking for a more comprehensive data collection software IDR may be the choice for you. Oracle's Intelligent Document Recognition utilizes AI and machine learning (ML) to recognize, categorize, and interpret content.



## Steps for Starting Your OCR to IDR Journey:

Comparing Oracle OCR and IDR's capabilities, if you're looking for a data extraction system that can better meet your organization's needs, it may be time to transition from OCR to IDR. There are many benefits to switching from OCR to IDR, but where do you start? Here are just a few steps to get you started on your OCR to IDR journey:

1.

### DOCUMENT STRUCTURE ANALYSIS:

To convert OCR to IDR, you can explore techniques to better analyze the structure of the document. This transition may involve using natural language processing, computer vision, or ML algorithms to identify document sections, headings, paragraphs, tables, and other structural elements.

2.

### DATA EXTRACTION AND RECOGNITION:

To move towards IDR, you can enhance your OCR solution to identify and extract specific data fields such as names, addresses, dates, and other structured information.

3.

### DOCUMENT UNDERSTANDING AND CONTEXT:

To add IDR-like features, you can incorporate techniques such as language processing, semantic analysis, or knowledge graphs to derive meaning from the extracted text. This can help you understand the document's purpose, identify key entities or topics, and extract relevant insights from it.

4.

### INTELLIGENT AUTOMATION AND LEARNING:

IDR systems often include automation and learning capabilities to improve performance over time. To make your OCR solution more like IDR, you can integrate automation features to classify documents, route them to appropriate workflows, or perform validations based on predefined rules.

## Steps for Starting Your OCR to IDR Journey:

Converting Oracle OCR into a full-fledged IDR system requires substantial development and integration of advanced techniques beyond the scope of OCR alone. While you can enhance your OCR solution by incorporating IDR-like features, it may not offer the same level of functionality as IDR itself. Learn more about transitioning document recognition systems by viewing Elire's [OCR to IDR](#) blog post.



# The Future of Intelligent Document Recognition:

IDR's streamlined invoice processing, automated data entry, and pattern recognition capabilities all contribute to its notoriety as a proactive data extraction and collection tool. Contrasting IDR and OCR's machine learning and data assembly abilities, it's evident that IDR offers users a more comprehensive data aggregation process.

Looking to the future, there are countless possibilities for IDR to evolve and expand. One potential area for advancement is data extraction and interpretation. IDR can further improve its ability to accurately extract and interpret data from a wide range of documents by incorporating more advanced natural language processing (NLP) algorithms and machine learning techniques.

The future of Oracle Intelligent Document Recognition (IDR) is filled with tremendous potential. Through advancements in data extraction, integration with emerging technologies, and adoption of industry-specific capabilities, IDR has the opportunity to revolutionize document management processes. As your organization looks to optimize data extraction and streamline document processes, look to IDR for new and evolving solutions.



## Get to Know Elire:

Elire specializes in Oracle Cloud Enterprise Resourcing Planning and supports Cloud customers in leveraging emerging technologies like IDR to make their lives easier. Elire's Cloud experts are available to connect with and discuss next steps for your organization's journey towards Intelligent Document Recognition. View Elire's [Cloud ERP services](#) or contact [Cloud@Elire.com](mailto:Cloud@Elire.com).

Elire offers various management information technology services for Treasury, Cloud, PeopleSoft, Advisory, and more. As a company, Elire prides itself on delivering Services on time and on budget through detailed methodologies, industry leading practices, and commitment to the highest standard of execution. To learn more about Elire expert services, take a look at Elire's [Consulting Services page](#). Make sure to follow Elire on [LinkedIn](#) and [Twitter](#) to receive industry updates directly to your phone.



## About the Authors



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Octavio Pedregal serves as a Cloud ERP Managing Consultant. He specializes in financial implementations and is responsible for implementing, maintaining, and coordinating with all clients using Oracle ERP Applications. Octavio has a long professional history and experience with a diverse client base. He works with clients to provide appropriate solutions based on their unique situations and needs.



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Jordan Hutchcraft serves as Elire's Social Media and Digital Marketing Intern, working to develop and optimize marketing brand assets. Jordan collaborates with the Elire Marketing Team to produce blog and social media content, strategize for social media expansion, and maintain Elire's internal and external branding.