MAPLE POWER 2020

I've lost my car, help me find it! (using AI Builder)

NOVEMBER 21ˢᵀ, 2020

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MVP - MCT

ZEPOWERDIVER
Dive in the Power Platform

365 SATURDAY

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Éric Sauvé

What – Power Platform Practice Lead

Where – XRM Vision (Montreal, Qc)

Why – Sea diving & motorcycle

How – Family & friends

When – Always!

@ZePowerDiver

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CANADIAN FUN FACT

Caribou a Moose?

❌

Caribou a drink?

✔️

4x Sherry 4x Brandy 1x Vodka 1x Brandy

OBJECTIVES

- What is AI Builder and how it can help organizations

- How to use the Text Recognition scenario

- Power Automate vs. Power Apps to process comparison scripts

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AGENDA

- AI Builder overview

- Text Recognition overview

- Use Case

- Demo

- Q&A

AI Builder Overview

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Microsoft Power Platform

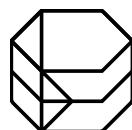| Dynamics 365	Teams	Microsoft 365	Azure	Other apps & systems

Power BI
Data Analysis

Power Apps
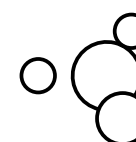App Development

Power Automate
Automation flows

Power Virtual Agents
Intelligent bots

~~Common Data Service~~
Dataverse
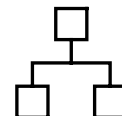
Data connectors

AI Builder

Microsoft Power Platform

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AI Builder – Changing Processes!

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Custom models

⚡ Historical data

⚡ Training

⚡ Dataverse

Prebuilt models

⚡ Components or actions

⚡ Ready to use

⚡ Industry/Microsoft "Intelligence"

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AI Builder – 2 types of models

Refine a model for your business needs

Category Classification
Categorize text by its meaning so it's easier to analyze.

Entity Extraction
Recognize specific information about your business from data.

Form Processing
Read and save information from standard documents.

Object Detection
Recognize and count things in images.

Prediction
Predict whether something will happen.

Get straight to productivity

Business Card Reader
Automatically process business card information

Category Classification (preview)
Categorize text by its meaning so it's easier to analyze

Entity Extraction
Extract entities and their types from text

Key Phrase Extraction
Extract the key talking points from text

Language Detection
Identify the language being used in text

Receipt Processing (preview)
Read and save information from receipts

Sentiment Analysis
Analyze positive/negative sentiment in text

Text Recognition
Automatically process text from images

Text Translation
Translate text into a new language automatically

Text Recognition Overview

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Text Recognition

⚡ Extract words from documents and images
- ⚡ Printed text
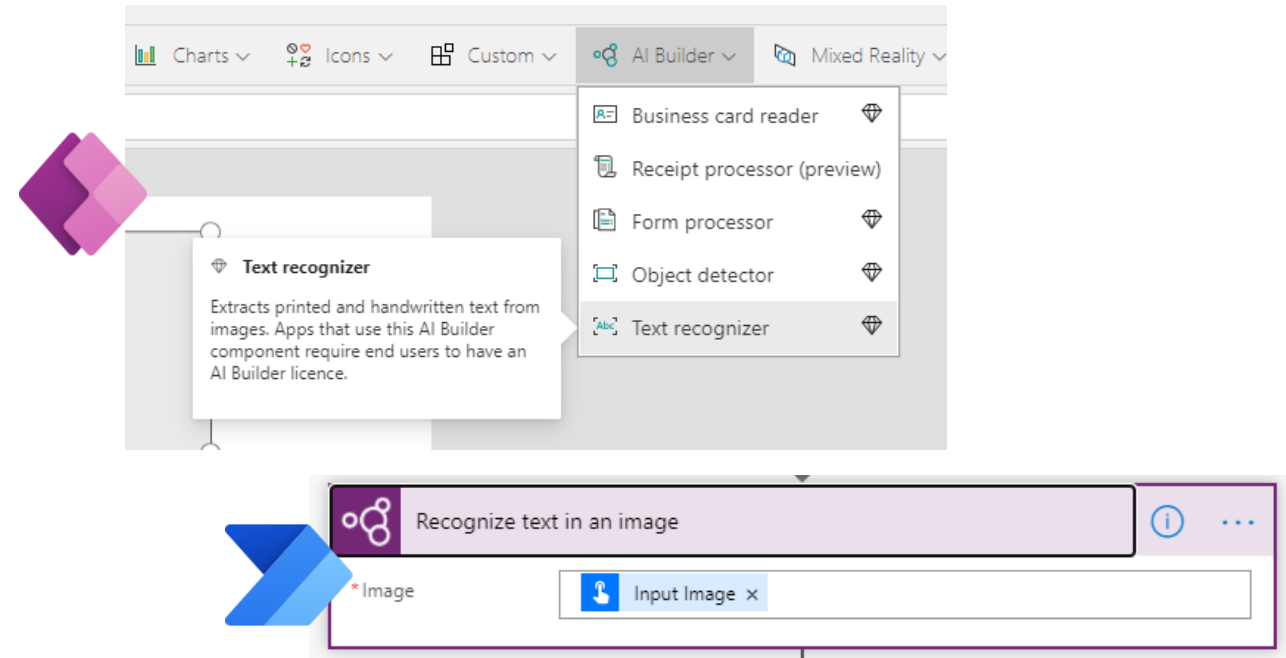- ⚡ Handwritten text

⚡ Languages, format & size
- ⚡ Dutch, English, French, German, Italian, Portuguese, Spanish
- ⚡ JPG, PNG, BMP, or PDF
- ⚡ Max 20 MB

⚡ Outputs
- ⚡ **Results**: List of lines extracted:
  - ⚡ **Text**: detected text
  - ⚡ **BoundingBox**: top, left, width & height

⚡ Usage
- ⚡ Power Apps (Canvas) – Text Recognizer component
- ⚡ Power Automate (flow) – AI Builder action

Best Practices
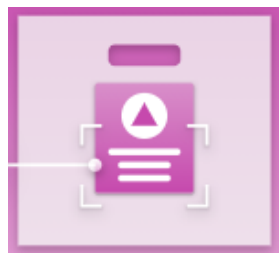
Clear & Hi-Contrast images

Single column

Contoso Inc.

250 ML

Lo-Contrast, complex background, glare

Multiple columns

Text Recognition Use Case

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License Plate Reader

Challenges
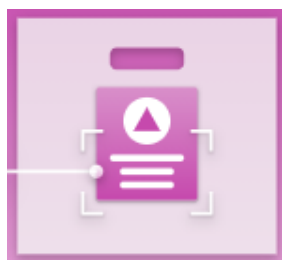
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2     {
3       "lines": [
4         {
5           "text": "ONT",
6           "boundingBox": {
7             "left": 0.864,
8             "top": 0.09473684210526316,
9             "width": 0.021333333333333315,
10            "height": 0.02368421052631578
11          }
12        },
13        {
14          "text": "ONTARIO",
15          "boundingBox": {
16            "left": 0.2986666666666667,
17            "top": 0.08421052631578947,
18            "width": 0.39333333333333326,
19            "height": 0.12631578947368421
20          }
21        },
22        {
23          "text": "DEC",
24          "boundingBox": {
25            "left": 0.8386666666666667,
26            "top": 0.12368421052631579,
27            "width": 0.07066666666666666,
28            "height": 0.0736842105263158
29          }
30        },
```

Process
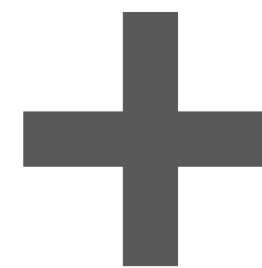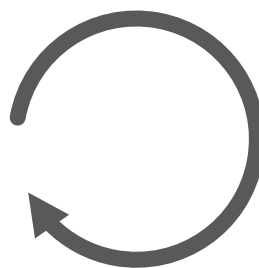

BYTR 741

```
1  [
2    {
3      "lines": [
4        {
5          "text": "ONT",
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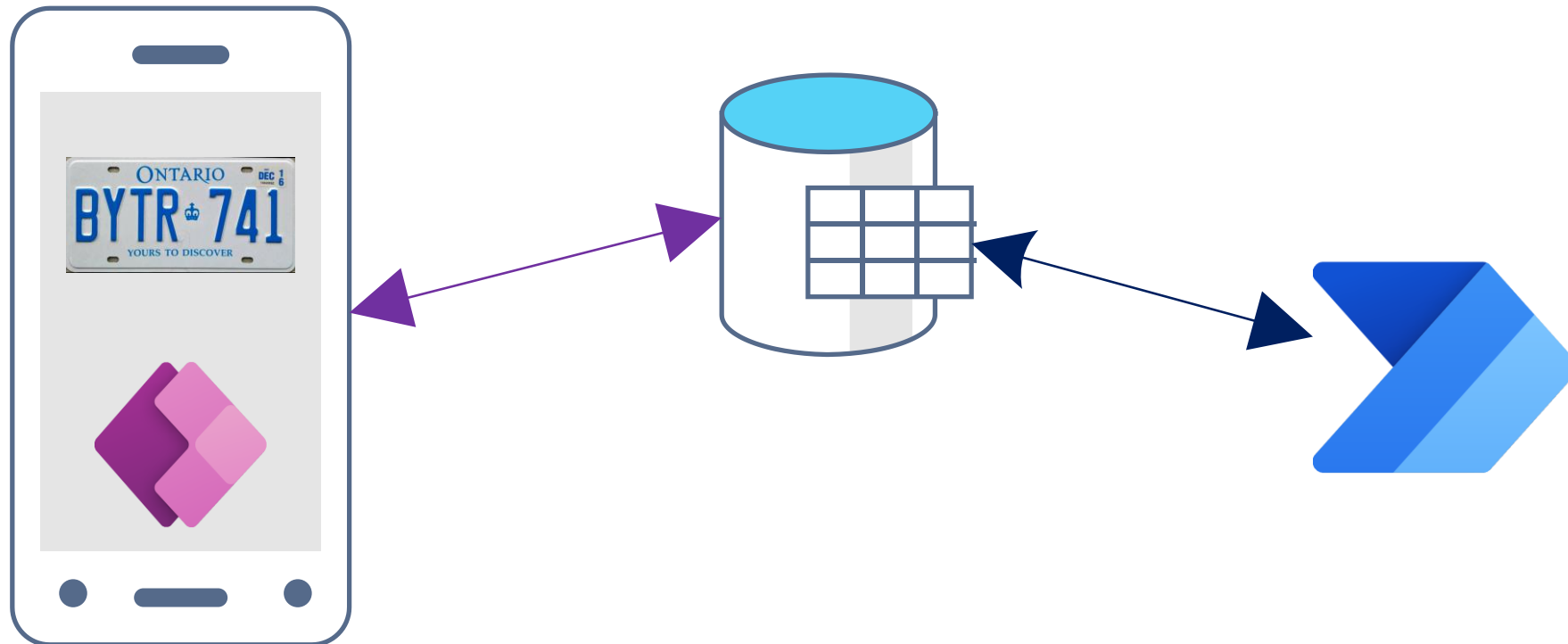
Via Power Automate

ForAll()

Concat()

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Demo

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Q&A

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References
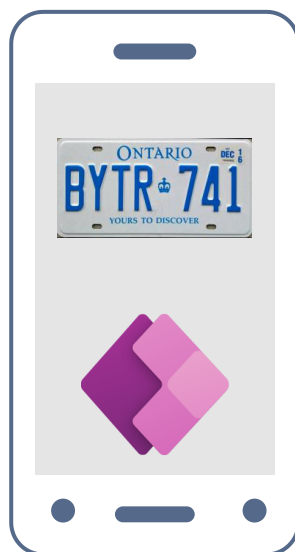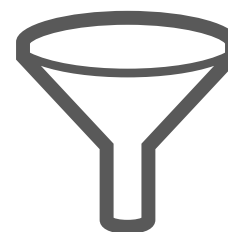
- https://flow.microsoft.com/en-ca/blog/new-ai-builder-capabilities-now-generally-available/
- https://powerapps.microsoft.com/en-ca/blog/category/ai-builder/
- https://powerapps.microsoft.com/en-ca/ai-builder-calculator/
- https://docs.microsoft.com/en-ca/power-platform-release-plan/2020wave2/ai-builder/
- https://github.com/ZePowerdiver/Session-Decks
- https://github.com/ZePowerdiver/PowerApps/blob/master/LicensePlateReaderLite_1_3.zip

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THANK YOU!

Fill out survey: https://bit.ly/2GEjUjr