Organize PDF Files into a Dedicated Folder

```
import os
import shutil

target_folder = "Scanned_PDF_sources"
os.makedirs(target_folder, exist_ok=True)

# Moving all PDF files into the folder
for file in os.listdir():
    if file.lower().endswith(".pdf"):
        shutil.move(file, os.path.join(target_folder, file))

print(f" All PDF files moved to '{target_folder}'")

All PDF files moved to 'Scanned_PDF_sources'
```

Extract Contents of a ZIP File to Current Directory

```
import zipfile
import os

# Path to the zip file
zip_path = "Transcripts.zip"

# Destination folder where files will be extracted
extract_to = os.getcwd()

# Unzip the folder
with zipfile.ZipFile(zip_path, 'r') as zip_ref:
    zip_ref.extractall(extract_to)

print(f"Extracted to: {extract_to}")

Extracted to: d:\test_1
```

Convert First Three Pages of Each PDF to Images

```
import os
import fitz

# Defining input and output directories
input_folder = "Scanned_PDF_sources"
output_base_folder = "overall_folder"

# Creating output base folder if it doesn't exist
os.makedirs(output_base_folder, exist_ok=True)

def pdf_to_images(pdf_path, output_folder):
    pdf_name = os.path.splitext(os.path.basename(pdf_path))[0]
```

```
pdf output folder = os.path.join(output folder, pdf name)
    os.makedirs(pdf output folder, exist ok=True)
    doc = fitz.open(pdf path)
    for i, page in enumerate(doc, start=1):
        if i <= 3: # Saving only the first 3 pages
            pix = page.get pixmap()
            image path = os.path.join(pdf output folder,
f"{pdf name}_page_{i}.png")
            pix.save(image path)
    print(f"Images saved in folder: {pdf output folder}")
# Processing all PDF files in the input folder
for filename in os.listdir(input folder):
    if filename.lower().endswith(".pdf"):
        full pdf path = os.path.join(input folder, filename)
        pdf to images(full pdf path, output base folder)
Images saved in folder: overall folder\Buendia - Instruccion
Images saved in folder: overall folder\Constituciones sinodales
Calahorra 1602
Images saved in folder: overall folder\Ezcaray - Vozes
Images saved in folder: overall folder\Mendo - Principe perfecto
Images saved in folder: overall folder\Paredes - Reglas generales
```

Extract and Save Words and Coordinates from OCR with Margin-Based Filtering and Visualization

```
import cv2
import pytesseract
import pandas as pd
import matplotlib.pyplot as plt
from PIL import Image
# Input image path
image path = "overall folder\Buendia - Instruccion\Buendia -
Instruccion page 2.png" # Please adjust for testing for different
documents
# Output directories
coordinates dir = "Coordinates"
words dir = "Words"
os.makedirs(coordinates_dir, exist_ok=True)
os.makedirs(words dir, exist ok=True)
# Extract base name
base name = os.path.splitext(os.path.basename(image path))[0]
```

```
# Load and prepare image
image = cv2.imread(image path)
image rgb = cv2.cvtColor(image, cv2.COLOR BGR2RGB)
pil image = Image.fromarray(image rgb)
# OCR with bounding box data
custom config = r'--oem 3 --psm 3'
data = pytesseract.image_to_data(pil_image, config=custom config,
output_type=pytesseract.Output.DICT)
# Converting to DataFrame
df = pd.DataFrame({
    "x1": data["left"],
    "y1": data["top"],
    "width": data["width"],
    "height": data["height"],
    "word": data["text"]
})
# Filtering out empty text
df = df[df["word"].str.strip() != ""]
# Computing bounding box (x2, y2)
df["x2"] = df["x1"] + df["width"]
df["y2"] = df["y1"] + df["height"]
# Margin metrics
df["left margin metric"] = df["y1"] + df["x1"]
df["right margin metric"] = df["x2"] + df["y2"]
bbox largest left metric = df.loc[df["left margin metric"].idxmin()]
bbox largest right metric = df.loc[df["right margin metric"].idxmax()]
left margin = bbox largest left metric["x1"]
right_margin = bbox largest right metric["x2"]
# Filtering within margins
df["within margins"] = (df["x2"] >= left margin) & (df["x1"] <=
right margin)
filtered df = df[df["within_margins"]]
# Saving coordinates
coordinates file = f"Coordinates/{base name} coord.txt"
with open(coordinates_file, "w") as f:
    for , row in filtered df.iterrows():
        f.write(f"{row['x1']},{row['y1']},{row['x2']},{row['y2']}\n")
# Saving words
words file = f"Words/{base name} words.txt"
with open(words file, "w") as f:
    for , row in filtered df.iterrows():
```

```
f.write(f"{row['word']}\n")

# Drawing bounding boxes
for _, row in filtered_df.iterrows():
        cv2.rectangle(image_rgb, (row["x1"], row["y1"]), (row["x2"],
        row["y2"]), (255, 0, 0), 2)

# Showing image with bounding boxes
plt.figure(figsize=(12, 12))
plt.imshow(image_rgb)
plt.title(f"Bounding Boxes: {base_name}")
plt.axis("off")
plt.show()

print(f"Processed image -> Coordinates: {coordinates_file}, Words:
{words_file}")
```

Bounding Boxes: Buendia - Instruccion_page_2

```
guro disseño de su edad a la Reli-
gion para con Dios en la devora
          assistécia à los Templos; la piedad
          con los Padres en la obediencia
          mas rendida; pla modettia, y de-
feo de faber, con los mayores,
          gustando mas de oir, y pregun-
Luc. ibid.
          tar, que de definir, y resolver. Bien
          que esto en vuestra infinita Sabi-
          duria fuè loberana dignacion 🛛 y
          en la natural ignorancia de los
          Niños es indispensable necessi-
          dad.
                Ni tienen solamente en Vos
          el diffeño , la luz, y el exemplo,
          fino tambien el amor, y protec-
Pfal.114.6.
          cion. Vos, como fingular Maef-
Ø 118.130.
          tro de los Niños , les dais enten-
€ 18. 8.
          dimiento, y comunicais la labi-
Matth. 19.
          duria. Vos les prometeis el Reyno
Marci, 10. delos Ciclos , y os indignais con
          quien les aparta de Vos, y les
          proponeis por norma del can-
dor inocencia, y christiana hu-
Matt. 18.
 2.00.
          mildad. Vuestro amor parece que
          no pudo explicarse mas tierno, y
          liberal con los Niños, pues no
          contento de echarles vuestras di-
                                       divi-
```

```
divinas bendiciones, les unisteis
a vuestro fagrado pecho con fua-
                                   Marci. 10:
vissimos abrazos. Dichosa edad,
que os mereció can regalados ca-
riños
     Y pues en la celestial Jeru-
(alèn no ha mudado de condicion
vuestra Benignidad proseguid,
o Niño tierno, y Dios Eterno,
profeguid en bendecirles, y favo-
recerles. Sean tan fervorosamen-
re devotos de vuestra Admirable cant 8.13
MADRE, que le porten como lus
hijos, y hermanos de leche con
Vos. Seran fabios, il fueren cal-
                                   Sap. 1. 4.
tos que no entra vuestra Sabi-
duría donde no ay mucha pure-
za de conciencia. Crezcan en
vuestro lanto temór, pamor, co-
como en los años, y mucho mas.
Adelantense en a virtud, como
en las letras , y mucho mas haf- Ad Ephef:
                                     4. 13.
ra que lleguen , por vuestra imi-
tacion a ler varones perfectos,
y confumados agradables á
vuestros ojos , y provechosos à
la Republica , que libra casi to-
da su selizidad en la acertada
                          crian-
```

```
Processed image -> Coordinates: Coordinates/Buendia -
Instruccion_page_2_coord.txt, Words: Words/Buendia -
Instruccion_page_2_words.txt
```

Convert DOCX Transcripts to Word-Level TXT Files

```
import re
import os
from docx import Document
# Folder containing the .docx files
docx folder = "Transcripts"
# Output folder for transcripts
transcripts folder = "Transcript to txt"
os.makedirs(transcripts folder, exist ok=True)
# Process each .docx file in the folder
for file name in os.listdir(docx folder):
    if file name.endswith(".docx"): # Ensure it's a .docx file
        docx path = os.path.join(docx folder, file name)
        doc = Document(docx path)
        # Extract base name of the document (without extension)
        docx name = os.path.splitext(file name)[0]
        # Initialize variables
        page content = {}
        current page = None
        # Reading document and segregate by "PDF pX" headings
        for para in doc.paragraphs:
            text = para.text.strip()
            # Detecting headers like "PDF p1", "PDF p2", etc.
            if re.match(r"^{PDF} p\d+", text):
                current_page = text # Example: "PDF p1"
                page_content[current_page] = []
            elif current page: # Store content under the detected
page header
                page_content[current_page].append(text)
        # Processing each page and save to corresponding .txt file
        for page, content in page content.items():
            # Extract the page number from "PDF pX"
            page number = re.search(r"\d+", page).group()
            # Generating output file name
            output file = os.path.join(transcripts folder,
f"{docx name} page {page number} transcript.txt")
```

```
# Flattening content into a single string
            full_text = " ".join(content)
            # Splitting into words (treating punctuation as separate
words)
            words = re.findall(r"[\w]+|[^\w\s]", full_text)
            # Saving to file (one word per line)
            with open(output_file, "w", encoding="utf-8") as f:
                previous word = None # To store the last word
                for word in words:
                    if word == "-":
                        if previous_word is not None:
                            # Append '-' to the previous word instead
of adding a new line
                            previous word += "-"
                    elif word == ",":
                        if previous_word is not None:
                            # Append '-' to the previous word instead
of adding a new line
                            previous word += ","
                    else:
                        if previous word is not None:
                            f.write(previous_word + "\n") # Write the
previous word
                        previous_word = word # Update previous word
                # Write the last word if it exists
                if previous word is not None:
                    f.write(previous word + "\n")
            print(f"Saved: {output file}")
print("Processing complete! Transcripts saved in the 'Transcripts'
folder.")
Saved: Transcript to txt\Buendia transcription_page_1_transcript.txt
Saved: Transcript to txt\Buendia transcription page 2 transcript.txt
Saved: Transcript to txt\Buendia transcription page 3 transcript.txt
Saved: Transcript to txt\Constituciones sinodales
transcription page 1 transcript.txt
Saved: Transcript to txt\Constituciones sinodales
transcription page 2 transcript.txt
Saved: Transcript to txt\Constituciones sinodales
transcription page 3 transcript.txt
Saved: Transcript to txt\Ezcaray transcription_page_1_transcript.txt
Saved: Transcript to txt\Ezcaray transcription page 2 transcript.txt
```

```
Saved: Transcript to txt\Ezcaray transcription page 3 transcript.txt
Saved: Transcript to txt\Mendo transcription page 1 transcript.txt
Saved: Transcript to txt\Mendo transcription page 2 transcript.txt
Saved: Transcript to txt\Mendo transcription page 3 transcript.txt
Saved: Transcript to txt\Mendo transcription page 4 transcript.txt
Saved: Transcript to txt\Mendo transcription_page_5_transcript.txt
Saved: Transcript to txt\Paredes transcription page 1 transcript.txt
Saved: Transcript to txt\Paredes transcription page 2 transcript.txt
Saved: Transcript to txt\Paredes transcription page 3 transcript.txt
Saved: Transcript to txt\PORCONES.228.35 1636
transcription page 1 transcript.txt
Saved: Transcript to txt\PORCONES.228.35 1636
transcription_page_2_transcript.txt
Saved: Transcript to txt\PORCONES.228.35 1636
transcription_page_3_transcript.txt
Processing complete! Transcripts saved in the 'Transcripts' folder.
```

Crop Word Images Using Bounding Boxes and Correct Filenames via Levenshtein Matching with Transcript

```
import cv2
import os
# Load the image
image_path = "overall_folder\Buendia - Instruccion\Buendia -
Instruccion page 2.png" # Update according to the required document
image = cv2.imread(image path)
# Extract base name for saving
image name = os.path.splitext(os.path.basename(image path))[0]
# Directory to save cropped word images
output dir = f"{image name} cropped words"
os.makedirs(output dir, exist ok=True)
# Read coordinates from the file
coordinates file = f"Coordinates\{image name} coord.txt"
with open(coordinates file, "r") as f:
    lines = f.readlines()
# Read words from the text file
words file = f"Words\{image name} words.txt"
with open(words_file, "r", encoding="utf-8") as f:
    words = [line.strip() for line in f.readlines() if line.strip()]
# Remove empty lines
# Ensure we have the same number of words and coordinates
if len(words) != len(lines):
    print(f"Warning: Mismatch in the number of words ({len(words)})
```

```
and coordinates ({len(lines)}).")
# Iterate through coordinates and crop images
for idx, line in enumerate(lines):
   x1, y1, x2, y2 = map(int, line.strip().split(","))
   # Crop the word from the image
   cropped word = image[y1:y2, x1:x2]
   # Get the corresponding word from the list
   word name = words[idx] if idx < len(words) else f"word {idx+1}"</pre>
   #sanitized_word_name = "".join(c for c in word_name if c.isalnum()
or c in (' ', '_')) # Clean filename
   # Save the cropped image
   cropped image path = os.path.join(output dir, f"{word name}.png")
   cv2.imwrite(cropped image path, cropped word)
   print(f"Saved cropped word '{word name}' at {cropped image path}")
print("Cropping complete. All word images are saved in the
'cropped words pg 1' directory.")
# Performing corection of image name
import os
import shutil
import Levenshtein
# Paths
transcript file = "Transcript to txt\Buendia
transcription_page_2_transcript.txt"
input folder = f"{image name} cropped words"
input folder name = os.path.splitext(os.path.basename(input folder))
[0]
output folder = f"{input folder name} corrected"
# Ensure the output directory exists
os.makedirs(output_folder, exist ok=True)
# Function to load words from the transcript (preserving case)
def load_transcript_words(file_path):
   with open(file path, "r", encoding="utf-8") as f:
```

```
words = set(f.read().split()) # Extract unique words while
preserving case
    return words
# Function to find the most similar word while keeping capitalization
def find best match(word, word list):
    best match = None
    best score = float("inf")
    for transcript word in word list:
        score = Levenshtein.distance(word.lower(),
transcript word.lower()) # Compute Levenshtein distance
        if score < best score:</pre>
            best_score = score
            best match = transcript word # Preserve original
capitalization
    return best match if best score <= len(word) * 0.4 else None #
Only accept if similarity is above 60%
# Load words from transcript (preserving case)
transcript words = load transcript words(transcript file)
# Keep track of used names to remove duplicates
used filenames = set()
# Process each image in the input folder
for image file in os.listdir(input folder):
    input image path = os.path.join(input folder, image file)
    # Extract the base name (removing extension)
    image name, ext = os.path.splitext(image file)
    # Find the best match while keeping capitalization
    best match = find best match(image name, transcript words)
    if best match:
        new filename = f"{best match}.png" # Keep capitalization
        output_image_path = os.path.join(output_folder, new_filename)
        # If this word is already assigned, do not save a duplicate
        if best match in used filenames:
            print(f"Skipped duplicate: {image file} (Already assigned
to {new filename})")
        else:
            # Copy the image to the new folder with the corrected name
            shutil.copy(input image path, output image path)
            used filenames.add(best match)
            print(f"Saved: {image_file} -> {output_image_path}")
    else:
```

```
print(f"Skipped: {image file} (No suitable match found)")
print("Processing complete! All corrected images are saved in
'cropped words pg 1 corrected'.")
Saved cropped word 'guro' at Buendia -
Instruccion_page_2_cropped_words\guro.png
Saved cropped word 'diffeiio' at Buendia -
Instruccion page 2 cropped words\diffeiio.png
Saved cropped word 'ag' at Buendia - Instruccion_page_2_cropped_words\
Saved cropped word 'edad' at Buendia -
Instruccion page 2 cropped words\edad.png
Saved cropped word ':' at Buendia -
Instruccion_page_2_cropped_words\:.png
Saved cropped word 'Ia' at Buendia - Instruccion page 2 cropped words\
Ia.pnq
Saved cropped word 'Reli-' at Buendia -
Instruccion_page_2_cropped_words\Reli-.png
Saved cropped word 'gion' at Buendia -
Instruccion page 2 cropped words\gion.png
Saved cropped word 'para' at Buendia -
Instruccion page 2 cropped words\para.png
Saved cropped word 'con' at Buendia -
Instruccion page 2 cropped words\con.png
Saved cropped word 'Dios' at Buendia -
Instruccion page 2 cropped words\Dios.png
Saved cropped word 'en' at Buendia - Instruccion page 2 cropped words\
en.pna
Saved cropped word 'la' at Buendia - Instruccion page 2 cropped words\
la.png
Saved cropped word 'devora' at Buendia -
Instruccion_page_2_cropped_words\devora.png
Saved cropped word 'afsiftécia' at Buendia -
Instruccion_page_2_cropped_words\afsiftécia.png
Saved cropped word '4' at Buendia - Instruccion_page_2_cropped_words\
4.png
Saved cropped word 'los' at Buendia -
Instruccion page 2 cropped words\los.png
Saved cropped word 'Templos; la' at Buendia -
Instruccion page 2 cropped words\Templos;la.png
Saved cropped word 'piedad' at Buendia -
Instruccion_page_2_cropped_words\piedad.png
Saved cropped word 'con' at Buendia -
Instruccion_page_2_cropped_words\con.png
Saved cropped word 'los' at Buendia -
Instruccion page 2 cropped words\los.png
Saved cropped word 'Padres' at Buendia -
Instruccion page 2 cropped words\Padres.png
Saved cropped word 'en' at Buendia - Instruccion_page_2_cropped_words\
```

```
en.png
Saved cropped word 'la' at Buendia - Instruccion page 2 cropped words\
la.png
Saved cropped word 'obediencia' at Buendia -
Instruccion page 2 cropped words\obediencia.png
Saved cropped word ''mas' at Buendia -
Instruccion page 2 cropped words\'mas.png
Saved cropped word 'rendida;' at Buendia -
Instruccion page 2 cropped words\rendida;.png
Saved cropped word '\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tiny{\tiny{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tiny{\tiny{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tiny{\tiny{\tiny{\text{\text{\text{\text{\text{\tiny{\tiliex{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tiny{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tin}\tinin}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texi{\text{\texi}\tii}\tinz}\tin}\tint{\text{\texi}\tinint{\text{\text{\texi}}\tint{\tiin}\tint{\
Saved cropped word 'modettia,' at Buendia -
Instruccion page 2 cropped words\modettia,.png
Saved cropped word 'y' at Buendia - Instruccion_page_2_cropped_words\
v.pnq
Saved cropped word 'de=' at Buendia -
Instruccion page 2 cropped words\de=.png
Saved cropped word 'feo' at Buendia -
Instruccion_page_2_cropped_words\feo.png
Saved cropped word 'de' at Buendia - Instruccion page 2 cropped words\
de.pna
Saved cropped word 'faber' at Buendia -
Instruccion page 2 cropped words\faber.png
Saved cropped word 'con' at Buendia -
Instruccion_page_2_cropped_words\con.png
Saved cropped word 'los' at Buendia -
Instruccion_page 2 cropped words\los.pnq
Saved cropped word 'mayores,' at Buendia -
Instruccion page 2 cropped words\mayores,.png
Saved cropped word 'guftando' at Buendia -
Instruccion_page_2_cropped_words\guftando.png
Saved cropped word 'mas' at Buendia -
Instruccion_page_2_cropped_words\mas.png
Saved cropped word 'de' at Buendia - Instruccion page 2 cropped words\
de.png
Saved cropped word 'oir,' at Buendia -
Instruccion page 2 cropped words\oir,.png
Saved cropped word 'y' at Buendia - Instruccion page 2 cropped words\
y.pnq
Saved cropped word 'pregun-' at Buendia -
Instruccion page 2 cropped words\pregun-.png
Saved cropped word 'tar,' at Buendia -
Instruccion page 2 cropped words\tar,.png
Saved cropped word 'que' at Buendia -
Instruccion page 2 cropped words\que.png
Saved cropped word 'de' at Buendia - Instruccion_page_2_cropped_words\
de.png
Saved cropped word 'definir,y' at Buendia -
Instruccion_page_2_cropped_words\definir,y.png
Saved cropped word 'refolver.Bien' at Buendia -
```

```
Instruccion_page_2_cropped_words\refolver.Bien.png
Saved cropped word 'que' at Buendia -
Instruccion page 2 cropped words\que.png
Saved cropped word 'efto' at Buendia -
Instruccion page 2 cropped words\efto.png
Saved cropped word 'en' at Buendia - Instruccion_page_2_cropped_words\
Saved cropped word 'vueftra' at Buendia -
Instruccion page 2 cropped words\vueftra.png
Saved cropped word 'infinita.' at Buendia -
Instruccion_page_2_cropped_words\infinita..png
Saved cropped word 'Sabi-,' at Buendia -
Instruccion\_page\_2\_cropped\_words \backslash Sabi-,.png
Saved cropped word 'duria' at Buendia -
Instruccion_page_2_cropped_words\duria.png
Saved cropped word 'fue' at Buendia -
Instruccion page 2 cropped words\fue.png
Saved cropped word 'foberana' at Buendia -
Instruccion page 2 cropped words\foberana.png
Saved cropped word 'dignacion' at Buendia -
Instruccion page 2 cropped words\dignacion.png
Saved cropped word ',' at Buendia -
Instruccion page 2 cropped words\,.png
Saved cropped word 'y' at Buendia - Instruccion page 2 cropped words\
y.pnq
Saved cropped word 'en' at Buendia - Instruccion page 2 cropped words\
Saved cropped word 'la' at Buendia - Instruccion_page_2_cropped_words\
la.png
Saved cropped word 'natural' at Buendia -
Instruccion page 2 cropped words\natural.png
Saved cropped word 'ignorancia' at Buendia -
Instruccion page 2 cropped words\ignorancia.png
Saved cropped word 'de' at Buendia - Instruccion page 2 cropped words\
de.pna
Saved cropped word 'los' at Buendia -
Instruccion page 2 cropped words\los.png
Saved cropped word 'Nifios' at Buendia -
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Instruccion page 2 cropped words\,.png
Saved cropped word 'que' at Buendia -
Instruccion page 2 cropped words\que.png
Saved cropped word 'libra' at Buendia -
Instruccion page 2 cropped words\libra.png
Saved cropped word 'cafi' at Buendia -
Instruccion page 2 cropped words\cafi.png
Saved cropped word 'to-' at Buendia -
Instruccion_page_2_cropped_words\to-.png
Saved cropped word 'da' at Buendia - Instruccion page 2 cropped words\
da.png
Saved cropped word 'fu,' at Buendia -
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Instruccion_page_2_cropped_words\fu,.png
Saved cropped word 'felizidad' at Buendia -
Instruccion_page_2_cropped_words\felizidad.png
Saved cropped word 'en' at Buendia - Instruccion page 2 cropped words\
en.pna
Saved cropped word 'la' at Buendia - Instruccion_page_2_cropped_words\
Saved cropped word 'acertada' at Buendia -
Instruccion page 2 cropped words\acertada.png
Saved cropped word 'he' at Buendia - Instruccion page 2 cropped words\
he.png
Saved cropped word 'crian:' at Buendia -
Instruccion_page_2_cropped_words\crian:.png
Cropping complete. All word images are saved in the
'cropped words pg 1' directory.
Saved: !.png -> Buendia -
Instruccion page 2 cropped words corrected\!.png
Skipped: ,.png (No suitable match found)
Saved: ,donde.png -> Buendia -
Instruccion page 2 cropped words corrected\donde.png
Skipped: -.png (No suitable match found)
Skipped: 2.png (No suitable match found)
Skipped: 4.png (No suitable match found)
Skipped: 6.png (No suitable match found)
Saved: ;.png -> Buendia -
Instruccion page 2 cropped words corrected\;.png
Saved: a.png -> Buendia - Instruccion_page_2_cropped_words_corrected\
a.png
Saved: abrazos..png -> Buendia -
Instruccion page 2 cropped words corrected\abrazos.png
Saved: acertada.png -> Buendia -
Instruccion_page_2_cropped_words_corrected\acertada.png
Saved: Adelantenfe.png -> Buendia -
Instruccion page 2 cropped words corrected\Adelantense.png
Saved: Admirable.png -> Buendia -
Instruccion page 2 cropped words corrected\Admirable.png
Skipped: afios,y.png (No suitable match found)
Saved: afsiftA©cia.png -> Buendia -
Instruccion page 2 cropped words corrected\assistencia.png
Skipped: ag.png (No suitable match found)
Saved: agradables.png -> Buendia -
Instruccion page 2 cropped words corrected\agradables.png
Saved: amor,.png -> Buendia -
Instruccion_page_2_cropped_words_corrected\amor,.png
Saved: amor.png -> Buendia -
Instruccion_page_2_cropped_words_corrected\amor.png
Saved: aparta.png -> Buendia -
Instruccion page 2 cropped words corrected\aparta.png
Saved: ay.png -> Buendia - Instruccion page 2 cropped words corrected\
```

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ay.png
Saved: bendecirles,.png -> Buendia -
Instruccion page 2 cropped words corrected\bendecirles,.png
Saved: bendiciones.,.png -> Buendia -
Instruccion page 2 cropped words corrected\bendiciones,.png
Saved: Benignidad.png -> Buendia -
Instruccion page 2 cropped words corrected\Benignidad,.png
Saved: ca-.png -> Buendia -
Instruccion page 2 cropped words corrected\can-.png
Skipped duplicate: caf-.png (Already assigned to can-.png)
Saved: cafi.png -> Buendia -
Instruccion page 2 cropped words corrected\casi.png
Skipped duplicate: can-.png (Already assigned to can-.png)
Saved: celeftial.png -> Buendia -
Instruccion_page_2_cropped_words_corrected\celestial.png
Saved: chriftiana.png -> Buendia -
Instruccion page 2 cropped words corrected\christiana.png
Saved: Cielos.png -> Buendia -
Instruccion page 2 cropped words corrected\Cielos,.png
Saved: cion..png -> Buendia -
Instruccion page 2 cropped words corrected\cion.png
Saved: co-.png -> Buendia -
Instruccion page 2 cropped words corrected\co..png
Saved: como.png -> Buendia -
Instruccion page 2 cropped words corrected\como.png
Saved: comunicais.png -> Buendia -
Instruccion_page_2_cropped_words_corrected\comunicais.png
Saved: con.png -> Buendia -
Instruccion page 2 cropped words corrected\con.png
Saved: conciencia,.png -> Buendia -
Instruccion page 2 cropped words corrected\conciencia.png
Saved: condicion.png -> Buendia -
Instruccion_page_2_cropped_words_corrected\condicion.png
Saved: confumados.png -> Buendia -
Instruccion page 2 cropped words corrected\consumados,.png
Saved: contento.png -> Buendia -
Instruccion page 2 cropped words corrected\contento.png
Saved: Crezcan.png -> Buendia -
Instruccion_page_2_cropped_words_corrected\Crezcan.png
Skipped duplicate: crian (Already assigned to cion.png)
Saved: da.png -> Buendia - Instruccion page 2 cropped words corrected\
da.png
Saved: dad..png -> Buendia -
Instruccion page 2 cropped words corrected\dad.png
Saved: dais.png -> Buendia -
Instruccion_page_2_cropped_words_corrected\dais.png
Saved: de.png -> Buendia - Instruccion_page_2_cropped words corrected\
de.png
Saved: de=.png -> Buendia -
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```
Instruccion page 2 cropped words corrected\del.png
Saved: definir, y.png -> Buendia -
Instruccion page 2 cropped words corrected\definir,.png
Skipped: del'.png (No suitable match found)
Saved: devora.png -> Buendia -
Instruccion_page_2_cropped_words_corrected\devota.png
Saved: devotos.png -> Buendia -
Instruccion page 2 cropped words corrected\devotos.png
Saved: Dichofa.png -> Buendia -
Instruccion page 2 cropped words corrected\Dichosa.png
Skipped: diffefio.png (No suitable match found)
Skipped: diffeiio.png (No suitable match found)
Saved: dignacion.png -> Buendia -
Instruccion page 2 cropped words corrected\dignacion,.png
Saved: dimiento.png -> Buendia -
Instruccion page 2 cropped words corrected\dimiento,.png
Saved: Dios.png -> Buendia -
Instruccion_page_2_cropped_words_corrected\Dios.png
Skipped duplicate: dis.png (Already assigned to Dios.png)
Saved: divinas.png -> Buendia -
Instruccion page 2 cropped words corrected\vinas.png
Saved: dor.png -> Buendia -
Instruccion_page_2_cropped_words corrected\dor,.png
Saved: duria.png -> Buendia -
Instruccion page 2 cropped words corrected\duria.png
Skipped: duria.Vos.png (No suitable match found)
Skipped: dA©.png (No suitable match found)
Saved: echarles.png -> Buendia -
Instruccion page 2 cropped words corrected\echarles.png
Saved: edad,.png -> Buendia -
Instruccion page 2 cropped words corrected\edad,.png
Saved: edad.png -> Buendia -
Instruccion_page_2_cropped_words_corrected\edad.png
Saved: efto.png -> Buendia -
Instruccion page 2 cropped words corrected\esto.png
Saved: el.png -> Buendia - Instruccion page 2 cropped words corrected\
el.png
Saved: en.png -> Buendia - Instruccion_page_2_cropped_words_corrected\
en.pna
Saved: enten-.png -> Buendia -
Instruccion_page_2_cropped_words_corrected\enten-.png
Saved: entra.png -> Buendia -
Instruccion_page_2_cropped_words_corrected\entra.png
Saved: es.png -> Buendia - Instruccion page 2 cropped words corrected
es.pnq
Saved: Eterno,.png -> Buendia -
Instruccion page 2 cropped words corrected\Eterno,.png
Saved: exemplo,.png -> Buendia -
Instruccion page 2 cropped words corrected\exemplo,.png
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```
Saved: explicarfe.png -> Buendia -
Instruccion page 2 cropped words corrected\explicarse.png
Saved: faber.png -> Buendia -
Instruccion page 2 cropped words corrected\saber,.png
Saved: fabi-.png -> Buendia -
Instruccion_page_2_cropped_words_corrected\Sabi-.png
Saved: fabios,.png -> Buendia -
Instruccion page 2 cropped words corrected\sabios,.png
Saved: fagrado.png -> Buendia -
Instruccion page 2 cropped words corrected\sagrado.png
Skipped: falA©n.png (No suitable match found)
Saved: fanto.png -> Buendia -
Instruccion_page_2_cropped_words_corrected\santo.png
Saved: favo-.png -> Buendia -
Instruccion page 2 cropped words corrected\favo-.png
Skipped: fe.png (No suitable match found)
Saved: felizidad.png -> Buendia -
Instruccion_page_2_cropped_words_corrected\felizidad.png
Saved: feo.png -> Buendia -
Instruccion_page_2_cropped_words_corrected\seo.png
Saved: fer.png -> Buendia -
Instruccion page 2 cropped words corrected\ser.png
Saved: fervorofamen-.png -> Buendia -
Instruccion page 2 cropped words corrected\fervorosamen..png
Skipped: fi.png (No suitable match found)
Skipped: fingularsMaef=.png (No suitable match found)
Saved: fino.png -> Buendia -
Instruccion page 2 cropped words corrected\sino.png
Saved: foberana.png -> Buendia -
Instruccion page 2 cropped words corrected\soberana.png
Saved: folamente.png -> Buendia -
Instruccion_page_2_cropped_words_corrected\solamente.png
Saved: fu,.png -> Buendia -
Instruccion page 2 cropped words corrected\fue.png
Skipped duplicate: fue.png (Already assigned to fue.png)
Saved: fueren.png -> Buendia -
Instruccion page 2 cropped words corrected\fueren.png
Saved: fus.png -> Buendia -
Instruccion_page_2_cropped_words_corrected\sus.png
Saved: f{ua-.png -> Buendia -
Instruccion page 2 cropped words corrected\sua-.png
Saved: gion.png -> Buendia -
Instruccion_page_2_cropped_words_corrected\gion.png
Saved: guftando.png -> Buendia -
Instruccion page 2 cropped words corrected\gustando.png
Saved: guro.png -> Buendia -
Instruccion page 2 cropped words corrected\quro.png
Saved: ha.png -> Buendia - Instruccion_page_2_cropped_words_corrected\
ha.png
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Saved: haf-.png -> Buendia -
Instruccion page 2 cropped words corrected\has-.png
Skipped: he.png (No suitable match found)
Saved: hermanos.png -> Buendia -
Instruccion page 2 cropped words corrected\hermanos.png
Saved: hijos.png -> Buendia -
Instruccion page 2 cropped words corrected\hijos,.png
Saved: hu-.png -> Buendia -
Instruccion page 2 cropped words corrected\hu-.png
Skipped: Ia.png (No suitable match found)
Saved: ignorancia.png -> Buendia -
Instruccion_page_2_cropped_words_corrected\ignorancia.png
Saved: Ileguen.png -> Buendia -
Instruccion_page_2_cropped_words_corrected\lleguen,.png
Saved: imi-.png -> Buendia -
Instruccion page 2 cropped words corrected\imi-.png
Saved: indifpenfable.png -> Buendia -
Instruccion_page_2_cropped_words_corrected\indispensable.png
Saved: indignais.png -> Buendia -
Instruccion page 2 cropped words corrected\indignais.png
Saved: infinita..png -> Buendia -
Instruccion page 2 cropped words corrected\infinita.png
Saved: inocencia.png -> Buendia -
Instruccion page 2 cropped words corrected\inocencia,.png
Saved: Jas.png -> Buendia -
Instruccion page 2 cropped words corrected\las.png
Saved: Jeru-.png -> Buendia -
Instruccion page 2 cropped words corrected\Jeru-.png
Saved: la.png -> Buendia - Instruccion_page_2_cropped_words_corrected\
la.png
Skipped: laluz, y.png (No suitable match found)
Saved: leche.png -> Buendia -
Instruccion_page_2_cropped_words corrected\leche.pnq
Saved: les.png -> Buendia -
Instruccion page 2 cropped words corrected\les.png
Saved: letras.png -> Buendia -
Instruccion page 2 cropped words corrected\letras,.png
Saved: liberal.png -> Buendia -
Instruccion_page_2_cropped_words_corrected\liberal.png
Saved: libra.png -> Buendia -
Instruccion page 2 cropped words corrected\libra.png
Saved: los.png -> Buendia -
Instruccion_page_2_cropped words corrected\los.pnq
Saved: Manpre,.png -> Buendia -
Instruccion_page_2_cropped_words_corrected\MADRE,.png
Saved: mas..png -> Buendia -
Instruccion page 2 cropped words corrected\mas.png
Skipped duplicate: mas.png (Already assigned to mas.png)
Saved: mayores,.png -> Buendia -
```

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Instruccion page 2 cropped words corrected\mayores,.png
Saved: merecid.png -> Buendia -
Instruccion page 2 cropped words corrected\merecio.png
Saved: modettia,.png -> Buendia -
Instruccion page 2 cropped words corrected\modestia,.png
Saved: mucha.png -> Buendia -
Instruccion page 2 cropped words corrected\mucha.png
Saved: mucho.png -> Buendia -
Instruccion page 2 cropped words corrected\mucho.png
Saved: mudado.png -> Buendia -
Instruccion_page_2_cropped_words_corrected\mudado.png
Saved: natural.png -> Buendia -
Instruccion page 2 cropped words corrected\natural.png
Saved: necefsi-.png -> Buendia -
Instruccion page 2 cropped words corrected\necessi-.png
Saved: Ni.png -> Buendia - Instruccion_page_2_cropped_words_corrected\
Ni.png
Saved: Nifio.png -> Buendia -
Instruccion page 2 cropped words corrected\Niño.png
Saved: Nifios.png -> Buendia -
Instruccion page 2 cropped words corrected\Niños.png
Saved: no.png -> Buendia - Instruccion page 2 cropped words corrected\
no.png
Saved: norma.png -> Buendia -
Instruccion_page_2_cropped_words_corrected\norma.png
Saved: obediencia.png -> Buendia -
Instruccion_page_2_cropped_words_corrected\obediencia.png
Saved: oir,.png -> Buendia -
Instruccion page 2 cropped words corrected\oir,.png
Saved: ojos.png -> Buendia -
Instruccion page 2 cropped words corrected\ojos,.png
Saved: os.png -> Buendia - Instruccion_page_2_cropped_words_corrected\
os.pnq
Saved: Padres.png -> Buendia -
Instruccion page 2 cropped words corrected\Padres.png
Saved: para.png -> Buendia -
Instruccion page 2 cropped words corrected\para.png
Saved: parece.png -> Buendia -
Instruccion_page_2_cropped_words_corrected\parece.png
Saved: pecho.png -> Buendia -
Instruccion page 2 cropped words corrected\pecho.png
Saved: perfeAcos,.png -> Buendia -
Instruccion_page_2_cropped_words_corrected\perfectos,.png
Saved: piedad.png -> Buendia -
Instruccion page 2 cropped words corrected\piedad.png
Saved: por.png -> Buendia -
Instruccion_page_2_cropped words corrected\por.pnq
Saved: porten.png -> Buendia -
Instruccion page 2 cropped words corrected\porten.png
```

```
Saved: pregun-.png -> Buendia -
Instruccion page 2 cropped words corrected\pregun-.png
Saved: profeguid,.png -> Buendia -
Instruccion page 2 cropped words corrected\prosequid,.png
Saved: profequid.png -> Buendia -
Instruccion page 2 cropped words corrected\proseguid.png
Saved: prometeis.png -> Buendia -
Instruccion page 2 cropped words corrected\prometeis.png
Saved: proponeis.png -> Buendia -
Instruccion page 2 cropped words corrected\proponeis.png
Saved: protec-.png -> Buendia -
Instruccion page 2 cropped words corrected\protec-.png
Saved: provechofos.png -> Buendia -
Instruccion page 2 cropped words corrected\provechosos.png
Saved: pudo.png -> Buendia -
Instruccion page 2 cropped words corrected\pudo.png
Saved: pues.png -> Buendia -
Instruccion_page_2_cropped_words_corrected\pues.png
Saved: pure-.png -> Buendia
Instruccion_page_2_cropped_words_corrected\pure-.png
Saved: que.png -> Buendia -
Instruccion page 2 cropped words corrected\que.png
Saved: quien.png -> Buendia -
Instruccion page 2 cropped words corrected\quien.png
Saved: recerles..png -> Buendia -
Instruccion page 2 cropped words corrected\recerles.png
Skipped: refolver.Bien.png (No suitable match found)
Saved: regalados.png -> Buendia -
Instruccion_page_2_cropped_words_corrected\regalados.png
Saved: Reli-.png -> Buendia -
Instruccion page 2 cropped words corrected\Reli-.png
Saved: rendida;.png -> Buendia -
Instruccion_page_2_cropped_words_corrected\rendida.png
Saved: Republica.png -> Buendia -
Instruccion page 2 cropped words corrected\Republica,.png
Saved: Reyno..png -> Buendia -
Instruccion page 2 cropped words corrected\Reyno.png
Skipped: rifios.png (No suitable match found)
Skipped duplicate: Sabi-,.png (Already assigned to Sabi-.png)
Skipped duplicate: Sabi-.png (Already assigned to Sabi-.png)
Saved: Sean.png -> Buendia -
Instruccion page 2 cropped words corrected\Sean.png
Saved: Seran.png -> Buendia -
Instruccion page 2 cropped words corrected\Seran.png
Saved: ta.png -> Buendia - Instruccion_page_2_cropped_words_corrected\
ta.png
Saved: tacion.png -> Buendia -
Instruccion page 2 cropped words corrected\tacion,.png
Saved: tamibien.png -> Buendia -
```

```
Instruccion page 2 cropped words corrected\tambien.png
Saved: tan.png -> Buendia -
Instruccion page 2 cropped words corrected\tan.png
Saved: tar,.png -> Buendia -
Instruccion page 2 cropped words corrected\tar,.png
Saved: te.png -> Buendia - Instruccion_page_2 cropped words corrected\
Saved: temor,.png -> Buendia -
Instruccion page 2 cropped words corrected\temor,.png
Saved: Templos; la.png -> Buendia -
Instruccion_page_2_cropped_words_corrected\Templos.png
Saved: tienen.png -> Buendia -
Instruccion page 2 cropped words corrected\tienen.png
Saved: tierno, 'y.png -> Buendia -
Instruccion_page_2_cropped_words_corrected\tierno,.png
Skipped duplicate: tierno,.png (Already assigned to tierno,.png)
Saved: to-.png -> Buendia -
Instruccion_page_2_cropped_words_corrected\to-.png
Saved: tos.png -> Buendia -
Instruccion_page_2_cropped_words_corrected\tos.png
Saved: tro.png -> Buendia -
Instruccion page 2 cropped words corrected\tro.png
Saved: unifteis.png -> Buendia -
Instruccion page 2 cropped words corrected\unisteis.png
Saved: varones.png -> Buendia -
Instruccion page 2 cropped words corrected\varones.png
Saved: vifsimos.png -> Buendia -
Instruccion page 2 cropped words corrected\vissimos.png
Saved: virtud.png -> Buendia -
Instruccion_page_2_cropped_words_corrected\virtud,.png
Saved: Vos,.png -> Buendia -
Instruccion_page_2_cropped_words_corrected\Vos,.png
Saved: Vos..png -> Buendia -
Instruccion page 2 cropped words corrected\Vos.png
Skipped duplicate: Vos.png (Already assigned to Vos.png)
Saved: vueftra.png -> Buendia -
Instruccion page 2 cropped words corrected\vuestra.png
Saved: vueftras.png -> Buendia -
Instruccion_page_2_cropped_words_corrected\vuestras.png
Saved: Vueftro.png -> Buendia -
Instruccion page 2 cropped_words_corrected\vuestro.png
Saved: vueftros.png -> Buendia -
Instruccion_page_2_cropped_words_corrected\vuestros.png
Skipped duplicate: vuettra.png (Already assigned to vuestra.png)
Saved: y.png -> Buendia - Instruccion_page_2_cropped_words_corrected\
Y.png
Saved: za.png -> Buendia - Instruccion page 2 cropped words corrected\
za.pnq
Skipped: ~.png (No suitable match found)
```

```
Skipped: Â≫y.png (No suitable match found)
Skipped: â€~de.png (No suitable match found)
Skipped: â€~mas.png (No suitable match found)
Saved: â€~mildad..png -> Buendia -
Instruccion_page_2_cropped_words_corrected\mildad.png
Skipped: '.png (No suitable match found)
Processing complete! All corrected images are saved in 'cropped_words_pg_1_corrected'.
```

Evaluate OCR Accuracy on Cropped Word Images Against Transcript Ground Truth

```
import os
import cv2
import pytesseract
import string
# Paths
word images dir = output dir # Directory with cropped word images
ground truth file = transcript file # Use the transcript file for
ground truth
# Function to normalize words (lowercase, remove punctuation)
def normalize(word):
    return word.strip().translate(str.maketrans('', '',
string.punctuation)).lower()
# Loading and filtering ground truth words
ground truth words = []
with open(ground truth file, "r", encoding="utf-8") as f:
    for line in \overline{f}:
        normalized = normalize(line)
        if normalized and any(c.isalnum() for c in normalized): #
Skip lines with only punctuation
            ground truth words.append(normalized)
ground truth set = set(ground truth words)
# Loading all .png images
image files = sorted([f for f in os.listdir(word images dir) if
f.lower().endswith(".png")])
predicted words = []
matched words = []
# OCR and evaluation loop
for image file in image files:
    img path = os.path.join(word images dir, image file)
    img = cv2.imread(img path)
```

```
if img is None:
        print(f"A Could not read image: {image file}. Skipping...")
        continue
    # Preprocessing
    gray = cv2.cvtColor(img, cv2.COLOR BGR2GRAY)
    gray = cv2.resize(gray, None, fx=2, fy=2,
interpolation=cv2.INTER CUBIC)
     , thresh = cv2.threshold(gray, 0, 255, cv2.THRESH BINARY +
cv2.THRESH OTSU)
    # OCR
    config = "--psm 7"
    ocr text = pytesseract.image to string(thresh,
config=config).strip()
    norm pred = normalize(ocr text)
    if norm pred:
        predicted words.append(norm pred)
        if norm pred in ground truth set:
            matched words.append(norm pred)
# Evaluation
total predicted = len(predicted words)
total matched = len(matched words)
accuracy = total_matched / total_predicted if total predicted > 0 else
# Results
print(f"Total word images processed: {len(image files)}")
print(f"Valid OCR predictions made : {total predicted}")
print(f"Predicted words matched in transcript: {total matched}")
print(f"Matching Accuracy: {accuracy * 100:.2f}%")
△ Could not read image: afsiftÄ©cia.png. Skipping...
∆ Could not read image: del'.png. Skipping...
△ Could not read image: dé.png. Skipping...
△ Could not read image: falén.png. Skipping...
△ Could not read image: perfeéos,.png. Skipping...
△ Could not read image: »y.png. Skipping...
∆ Could not read image: â€~de.png. Skipping...
∆ Could not read image: â€~mas.png. Skipping...

    ∆ Could not read image: â€~mildad..png. Skipping...

∆ Could not read image: '.png. Skipping...
Total word images processed: 209
Valid OCR predictions made: 193
Predicted words matched in transcript: 101
Matching Accuracy: 52.33%
```