repo2pdf - repo2pdf

/Users/harissujethan/Desktop/repo2pdf

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Overview

repo2pdf - repo2pdf

/Users/harissujethan/Desktop/repo2pdf

CLI tool to convert your repositories into clean PDFs and structured JSON outputs, **designed for giving LLMs full context of your codebase**

Key Features

• Convert **local** or **remote GitHub repositories**
• Generate **PDFs** containing full file structures and contents
• Output structured **JSON summaries**
• Exclude unnecessary file types automatically
• **repo_output.pdf**
• **repo_output.json**

Quick Usage

```
pip install repo2pdf
```

Option 2: Install from Source

Clone the repository and install locally:

```bash
git clone https://github.com/haris-sujethan/repo-2-pdf
cd repo-2-pdf
pip install -r requirements.txt
```

Then choose one of the following:

Local development install (recommended):

```bash
pip install -e .
repo2pdf
```

Run without installing:

```bash
python -m repo2pdf.cli
```

Usage

Run the CLI tool:

```bash
repo2pdf
```

Files & Languages

• .py - 10 file(s)
• (no ext) - 1 file(s)

- .md - 1 file(s)
- .toml - 1 file(s)
- .txt - 1 file(s)
- Total files: 14

Dependencies

- fpdf2
- GitPython
- inquirer
- pathspec
- pytest
- pygments>=2.13

.gitignore

Transact-SQL • 9 line(s)

```
repo2pdf.egg-info/
__pycache__/
*.py[cod]
*$py.class
dist/
build/
*.egg-info/
.pytest_cache/
node_modules/
```

README.md

Markdown • 70 line(s)

```
# repo-2-pdf

CLI tool to convert your repositories into clean PDFs and structured JSON outputs, **designed f
or giving LLMs full context of your codebase**

## Features

- Convert **local** or **remote GitHub repositories**
- Generate **PDFs** containing full file structures and contents
- Output structured **JSON summaries**
- Exclude unnecessary file types automatically

## Installation

### Option 1: Install from [PyPI](https://pypi.org/project/repo2pdf/) (Recommended)

```bash
pip install repo2pdf
```

Option 2: Install from Source

Clone the repository and install locally:

```bash
git clone https://github.com/haris-sujethan/repo-2-pdf
cd repo-2-pdf
pip install -r requirements.txt
```

Then choose one of the following:

Local development install (recommended):

```bash
pip install -e .
repo2pdf
```
```

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Run without installing:

```bash
python -m repo2pdf.cli
```

Usage

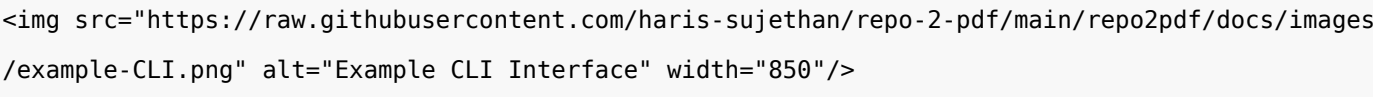
Run the CLI tool:

```bash
repo2pdf
```

Follow the interactive prompts:

1. Select local or remote repository
2. Provide the local repo path or GitHub URL
3. Choose an output location
4. Exclude any file types you don't want included (e.g., `.png`, `.jpg`)
5. Optionally generate a JSON summary alongside the PDF

Example CLI Flow



Example Outputs

Example outputs are available in the `/examples` folder:

- **repo_output.pdf**
- **repo_output.json**

pyproject.toml

TOML • 23 line(s)

```toml
[build-system]
requires = ["setuptools>=61.0"]
build-backend = "setuptools.build_meta"

[project]
name = "repo2pdf"
version = "0.1.4"
description = "Convert coding repositories into PDFs and JSON summaries"
authors = [
  { name="Haris Sujethan", email="your-email@example.com" },
]
license = {text = "MIT"}
readme = "README.md"
requires-python = ">=3.7"
dependencies = [
  "fpdf2",
  "GitPython",
  "inquirer",
  "pathspec",
]

[project.scripts]
repo2pdf = "repo2pdf.cli:main"
```

repo2pdf/__init__.py

Python • 3 line(s)

```python
# __init__.py

__version__ = '0.1.0'
```

repo2pdf/cli.py

Python • 50 line(s)

```python
# repo2pdf/cli.py
from __future__ import annotations

import inquirer
from repo2pdf.core import process_local_repo, process_remote_repo

def main():
    ascii_art = r"""
 ______   ______  ______  ______           _____           ______  ______  ______
/_____/\ /_____/\/_____/\/_____/\         /_____/\        /_____/\/_____/\/_____/\
\:::_ \ \\::::_\/\:::_ \ \ \:::_ \ \  ______\:::_:\ \ ______\:::_ \ \:::_ \ \ \::::_\/_
 \:(_) ) )\:\/___/\:(_) \ \:\ \ \ \ \/_____/\  _\:\|/_____/\:(_) \ \:\ \ \ \:\/___/\
  \: __ `\ \::___\/\: ___\/\:\ \ \ \__::::\/ /::_/_\__::::\/\: ___\/\:\ \ \ \::._\/
   \ \ `\ \ \:\____/\ \ \   \:\_\ \ \        \:\____/\       \ \ \   \:\/.:| \:\ \
    \_\/ \_\/\_____\/\_\/    \_____\/         \_____\/        \_\/    \____/_/\_\/


Welcome to repo2pdf - convert your repositories to PDFs
    """
    print(ascii_art)

    repo_type_q = [
        inquirer.List(
            "repo_type",
            message="Do you want to generate a PDF from a local or remote repo?",
            choices=["Local", "Remote"],
        )
    ]
    repo_type = inquirer.prompt(repo_type_q)["repo_type"]

    json_q = [inquirer.Confirm("json", message="Do you also want to generate a JSON version?",
default=False)]
    want_json = inquirer.prompt(json_q)["json"]

    output_q = [inquirer.Text("output", message="Provide output path for PDF (press enter for d
efault)")]
    output_path = inquirer.prompt(output_q)["output"]
```

```
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```

```
    exclude_q = [inquirer.Text("exclude", message="Enter file extensions to exclude (e.g. .png,
.jpg,.exe), or press enter to skip")]
    exclude_input = inquirer.prompt(exclude_q)["exclude"]
    exclude_list = [e.strip() for e in exclude_input.split(",")] if exclude_input else []

    if repo_type == "Local":
        path_q = [inquirer.Text("path", message="Provide local repo path (or press enter if cur
rent directory)")]
        path = inquirer.prompt(path_q)["path"]
        process_local_repo(path, want_json, output_path, exclude_list)
    else:
        url_q = [inquirer.Text("url", message="Provide GitHub repo URL (e.g. https://github.com
/user/repo)")]
        url = inquirer.prompt(url_q)["url"]
        process_remote_repo(url, want_json, output_path, exclude_list)

if __name__ == "__main__":
    main()
```

repo2pdf/core.py

Python • 223 line(s)

```python
# repo2pdf/core.py
from __future__ import annotations

import json
import os
import tempfile
from datetime import datetime
from pathlib import Path
from typing import List, Tuple, Dict, Any

from pathspec import PathSpec
from pathspec.patterns.gitwildmatch import GitWildMatchPattern

from repo2pdf.pdf import generate_pdf, PDFMeta  # updated renderer

# Directories we always skip anywhere in the path
EXCLUDE_DIRS = {
    ".git", ".github", "node_modules", "dist", "build", "out", "target",
    "__pycache__", ".mypy_cache", ".pytest_cache", ".venv", "venv",
    ".tox", ".idea", ".vscode"
}

# Files we always skip by name
ALWAYS_SKIP_FILENAMES = {"repo_output.pdf", "repo2pdf.pdf"}

# Obvious binary extensions (expanded)
BINARY_EXTS = {
    ".png", ".jpg", ".jpeg", ".gif", ".webp", ".ico",
    ".pdf", ".zip", ".gz", ".7z", ".tar", ".rar",
    ".woff", ".woff2", ".ttf", ".otf", ".eot",
    ".bmp", ".tiff", ".psd", ".svg",
    ".mp3", ".mp4", ".mov", ".avi", ".mkv",
    ".exe", ".dll", ".so", ".dylib",
    ".bin", ".class", ".o", ".a",
    ".lock",
}

# Max size we'll read as "text"
```

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```
    MAX_TEXT_BYTES = 1_000_000  # 1 MB


def _gitignore(root: Path) -> PathSpec:
    gi = root / ".gitignore"
    lines = gi.read_text().splitlines() if gi.exists() else []
    return PathSpec.from_lines(GitWildMatchPattern, lines)


def _skip_dir(p: Path) -> bool:
    return any(part in EXCLUDE_DIRS for part in p.parts)


def _looks_binary(head: bytes) -> bool:
    if b"\x00" in head:
        return True
    if head.startswith(b"%PDF-"):
        return True
    if head.startswith(b"\x1f\x8b"):       # gzip
        return True
    if head.startswith(b"PK\x03\x04"):     # zip/jar/docx/etc.
        return True
    printable = sum(32 <= b <= 126 or b in (9, 10, 13) for b in head)
    return (len(head) - printable) / max(1, len(head)) > 0.20


def _collect_files(root: Path, exclude_exts: set[str]) -> Tuple[List[Tuple[str, str]], Dict[st
r, Any]]:
    spec = _gitignore(root)
    files: List[Tuple[str, str]] = []
    counts = {
        "gitignored": 0,
        "manual_exclude": 0,
        "excluded_dir": 0,
        "binary_ext": 0,
        "binary_magic": 0,
        "too_large": 0,
        "read_errors": 0,
    }
```

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```
    for p in root.rglob("*"):
79      if p.is_dir():
80          if _skip_dir(p):
81              # skip entire subtree
82              counts["excluded_dir"] += 1
83              continue
84          continue

86      rel = p.relative_to(root).as_posix()

88      # .gitignore + manual skips
89      if rel.startswith(".git/") or spec.match_file(rel):
90          counts["gitignored"] += 1
91          continue
92      if p.name in ALWAYS_SKIP_FILENAMES:
93          counts["manual_exclude"] += 1
94          continue
95      if _skip_dir(p):
96          counts["excluded_dir"] += 1
97          continue

99      ext = p.suffix.lower()
100     if ext in exclude_exts or ext in BINARY_EXTS:
101         counts["binary_ext"] += 1
102         continue

104     try:
105         if p.stat().st_size > MAX_TEXT_BYTES:
106             counts["too_large"] += 1
107             continue
108     except Exception:
109         pass

111     try:
112         with p.open("rb") as f:
113             head = f.read(4096)
114             if _looks_binary(head):
115                 counts["binary_magic"] += 1
116                 continue
117             data = head + f.read()
```

118

```
                text = data.decode("utf-8", errors="replace")
        except Exception:
            counts["read_errors"] += 1
            continue

        files.append((rel, text))

    files.sort(key=lambda t: t[0])
    summary = {"counts": counts, "notes": [], "packed_small_files": 0}
    return files, summary


def _resolve_output_path(output_path: str | None, root: Path) -> Path:
    """
    If output_path is:
      - empty/None -> use CWD/repo2pdf-<root>-YYYYmmdd-HHMM.pdf
      - a directory -> append repo2pdf-<root>-YYYYmmdd-HHMM.pdf
      - a file path without .pdf -> add .pdf
      - a file path with .pdf -> use as-is
    """
    ts = datetime.now().strftime("%Y%m%d-%H%M")
    default_name = f"repo2pdf-{root.name}-{ts}.pdf"

    if not output_path or output_path.strip() == "":
        return Path(os.getcwd()) / default_name

    p = Path(output_path).expanduser()
    if p.is_dir() or str(output_path).endswith(os.sep):
        return p / default_name

    if p.suffix.lower() != ".pdf":
        p = p.with_suffix(".pdf")
    return p


def _build_json_summary(root: Path, files: List[Tuple[str, str]]) -> dict:
    from datetime import datetime, timezone
    entries = []
    for rel, content in files:
        p = root / rel
```

158

```
            try:
159             size = p.stat().st_size
160         except Exception:
161             size = len(content.encode("utf-8", errors="ignore"))
162         lines = content.count("\n") + (1 if content and not content.endswith("\n") else 0)
163         entries.append({
164             "path": rel,
165             "ext": Path(rel).suffix.lower(),
166             "size_bytes": size,
167             "line_count": lines,
168         })
169     return {
170         "repo_name": root.name,
171         "root": str(root),
172         "file_count": len(entries),
173         "generated_at": datetime.now(timezone.utc).isoformat(),
174         "files": entries,
175     }


178 def _render(root: Path, output_path: str | None, exclude_list: list[str] | None, repo_url: str
178  | None, want_json: bool):
179     # Normalize CLI excludes (like ".png,.jpg") into a set of extensions
180     exclude_exts = set()
181     for item in (exclude_list or []):
182         for token in item.split(","):
183             token = token.strip()
184             if token and token.startswith("."):
185                 exclude_exts.add(token.lower())

187     files, summary = _collect_files(root, exclude_exts)

189     meta = PDFMeta(
190         title=f"repo2pdf - {root.name}",
191         subtitle=str(root),
192         repo_url=repo_url,
193     )

195     out_path = _resolve_output_path(output_path, root)
196     out_path.parent.mkdir(parents=True, exist_ok=True)
```

198

```
        # Generate PDF (summary appended in appendix)
199     generate_pdf(files, str(out_path), meta, summary=summary)

201     if want_json:
202         out_json = _build_json_summary(root, files)
203         json_path = out_path.with_suffix(".json")
204         json_path.write_text(json.dumps(out_json, indent=2), encoding="utf-8")

206     print(f"\nPDF saved to: {out_path}")
207     if want_json:
208         print(f"JSON saved to: {out_path.with_suffix('.json')}")


211 # Public entry points expected by cli.py

213 def process_local_repo(path: str, want_json: bool, output_path: str | None, exclude_list: list
213 [str]):
214     root = Path(path or ".").resolve()
215     _render(root, output_path, exclude_list, repo_url=None, want_json=want_json)


218 def process_remote_repo(url: str, want_json: bool, output_path: str | None, exclude_list: list
218 [str]):
219     from git import Repo  # requires GitPython
220     with tempfile.TemporaryDirectory(prefix="repo2pdf_") as tmp:
221         tmp_path = Path(tmp)
222         Repo.clone_from(url, tmp_path)
223         _render(tmp_path, output_path, exclude_list, repo_url=url, want_json=want_json)
```

repo2pdf/pdf.py

Python • 759 line(s)

```python
# repo2pdf/pdf.py
# Clean, readable PDF renderer with *native* syntax highlighting:
# - Cover
# - Table of Contents AT THE START (reserved then backfilled; truncates with a note)
# - Text-only Overview (LLM + human friendly; strips README images)
# - One section per file with Unicode-safe monospaced text
# - Native Pygments token coloring (no HTML), line numbers, light code background
# - Safe soft-wrapping; no empty background bands; robust around page breaks
# - Small-file packing: multiple tiny files share a page when space allows
# - Header shows: path • language • lines (per-page context)
# - Appendix: transparent "Skipped & condensed" summary

from __future__ import annotations

import os
import re
from dataclasses import dataclass
from datetime import datetime
from typing import Iterable, Tuple, Optional, List, Dict, Any

from fpdf import FPDF

# Pygments for lexing & token types
from pygments import lex
from pygments.lexers import get_lexer_for_filename, guess_lexer
from pygments.lexers.special import TextLexer
from pygments.token import Token

# ---------------------------------------------------------------------------
# Configuration
# ---------------------------------------------------------------------------
PACKAGE_DIR = os.path.dirname(__file__)
FONTS_DIR = os.path.join(PACKAGE_DIR, "fonts")

DEJAVU_SANS = os.path.join(FONTS_DIR, "DejaVuSans.ttf")
DEJAVU_SANS_BOLD = os.path.join(FONTS_DIR, "DejaVuSans-Bold.ttf")
DEJAVU_MONO = os.path.join(FONTS_DIR, "DejaVuSansMono.ttf")
```

```
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```

```python
    # Minimal text normalizer so DejaVu can render everything
CHAR_MAP = {
    # arrows, misc
    "△": "△", "→": "→", "→": "→", "←": "←", "←": "←",
    # smart punctuation -> ASCII
    "-": "-", "-": "-", "-": "-", "-": "-",
    "‘’‚‛′‵ʻʼ": "'",
    "“”„‟″‶": '"',
    "‹": "'", "›": "'", "‹": "'", "›": "'", "‹": "'",
    "\u00A0": " ", # NBSP
}

def normalize_text_for_pdf(s: str) -> str:
    s = (s or "").replace("", "") # strip variation selector
    for k, v in CHAR_MAP.items():
        s = s.replace(k, v)
    return s


@dataclass
class PDFMeta:
    title: str
    subtitle: Optional[str] = None
    repo_url: Optional[str] = None
    generated_at: Optional[datetime] = None


class RepoPDF(FPDF):
    """FPDF renderer with a cover, ToC at start, text Overview, and per-file sections."""

    def __init__(self, meta: PDFMeta):
        super().__init__(orientation="P", unit="mm", format="A4")
        # Reduced bottom margin from 16 to 10 for tighter spacing
        self.set_auto_page_break(auto=True, margin=10)
        self.meta = meta
        self._toc: List[Tuple[str, int, int]] = [] # (label, level, page)
        self._links: Dict[str, int] = {}
        self._toc_reserved_page: Optional[int] = None
        # Header state (per page)
        self._hdr_path: str = meta.title
        self._hdr_lang: str = ""
```

79

```
        self._hdr_lines: Optional[int] = None
```

```
81          self._register_fonts()
82          self._set_doc_info()
```

```
84      # ---------------------------- Fonts & metadata ----------------------------
85      def _register_fonts(self):
86          for path in (DEJAVU_SANS, DEJAVU_SANS_BOLD, DEJAVU_MONO):
87              if not (os.path.exists(path) and os.path.getsize(path) > 50_000):
88                  raise RuntimeError(
89                      f"Missing/invalid font at {path}. Please vendor real DejaVu TTF binaries."
90                  )
91          # Register Unicode-safe fonts (regular + bold only; no italics to prevent errors)
92          self.add_font("DejaVu", style="", fname=DEJAVU_SANS, uni=True)
93          self.add_font("DejaVu", style="B", fname=DEJAVU_SANS_BOLD, uni=True)
94          self.add_font("DejaVuMono", style="", fname=DEJAVU_MONO, uni=True)
95          self.set_font("DejaVu", size=11)
```

```
97      def _set_doc_info(self):
98          self.set_title(self.meta.title)
99          if self.meta.subtitle:
100             self.set_subject(self.meta.subtitle)
101         if self.meta.repo_url:
102             self.set_author(self.meta.repo_url)
103         self.set_creator("repo2pdf")
```

```
105     # ---------------------------- Header / Footer ----------------------------
106     def header(self):
107         # Header line + context
108         self.set_font("DejaVu", size=9)
109         self.set_text_color(60)
110         self.set_x(self.l_margin)
```

```
112         # Trim path to available width
113         right_part = ""
114         if self._hdr_lang or self._hdr_lines is not None:
115             parts = [p for p in [self._hdr_lang, f"{self._hdr_lines} lines" if self._hdr_lines
115 else None] if p]
116             right_part = " • ".join(parts)
117         max_w = self.w - self.l_margin - self.r_margin
```

118

```
            left_txt = normalize_text_for_pdf(self._hdr_path)
        if right_part:
            # reserve space for right_part
            rp_w = self.get_string_width(" " + right_part)
            avail = max_w - rp_w
            # elide left if too long
            while self.get_string_width(left_txt) > avail and len(left_txt) > 4:
                left_txt = "…" + left_txt[1:]
            self.cell(avail, 6, left_txt, ln=0, align="L")
            # right-aligned meta
            self.set_xy(self.w - self.r_margin - rp_w, self.get_y())
            self.cell(rp_w, 6, right_part, ln=1, align="R")
        else:
            self.cell(0, 6, left_txt, ln=1, align="L")

        self.set_draw_color(220)
        self.set_line_width(0.2)
        y = self.get_y()
        self.line(self.l_margin, y, self.w - self.r_margin, y)
        # Reduced from ln(2) to ln(1)
        self.ln(1)
        self.set_text_color(0)

    def footer(self):
        self.set_y(-12)
        self.set_font("DejaVu", size=9)
        self.set_text_color(120)
        self.cell(0, 8, f"Page {self.page_no()}", align="C")
        self.set_text_color(0)

    # ------------------------------ Helpers ---------------------------------
    def _page_width_available(self) -> float:
        return self.w - self.l_margin - self.r_margin

    def _safe_multicell(self, text: str, line_h: float):
        """Reset X to left margin and use explicit width to avoid FPDF width errors."""
        self.set_x(self.l_margin)
        self.multi_cell(self._page_width_available(), line_h, text)

    # ------------------------------ High level ------------------------------
```

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```
    def add_cover(self):
        # Header state for this page
        self._hdr_path = normalize_text_for_pdf(self.meta.title)
        self._hdr_lang = ""
        self._hdr_lines = None

        self.add_page()
        self.set_font("DejaVu", "B", 22)
        self.ln(25)  # Reduced from 30
        self._safe_multicell(normalize_text_for_pdf(self.meta.title), line_h=12)
        self.ln(3)  # Reduced from 4
        self.set_font("DejaVu", size=12)
        sub = self.meta.subtitle or "Repository to PDF"
        self._safe_multicell(normalize_text_for_pdf(sub), line_h=8)
        self.ln(3)  # Reduced from 4
        if self.meta.repo_url:
            url = normalize_text_for_pdf(self.meta.repo_url)
            self.set_text_color(60, 90, 200)
            self.set_x(self.l_margin)
            self.cell(self._page_width_available(), 8, url, align="C", ln=1, link=self.meta.re
po_url)
            self.set_text_color(0)
        self.ln(4)  # Reduced from 6
        when = (self.meta.generated_at or datetime.utcnow()).strftime("%Y-%m-%d %H:%M UTC")
        self.set_text_color(120)
        self.set_x(self.l_margin)
        self.cell(self._page_width_available(), 8, f"Generated {when}", align="C")
        self.set_text_color(0)

    def reserve_toc_page(self):
        """Reserve a page right after the cover for the ToC and remember its number."""
        # Header state for ToC page
        self._hdr_path = "Table of Contents"
        self._hdr_lang = ""
        self._hdr_lines = None

        self.add_page()
        self._toc_reserved_page = self.page_no()

    def render_toc_on_reserved_page(self):
```

197

```
            if not self._toc_reserved_page:
198             return
199         # Jump to the reserved page and render
200         current_page = self.page_no()
201         current_x, current_y = self.get_x(), self.get_y()

203         self.page = self._toc_reserved_page
204         self.set_xy(self.l_margin, self.t_margin)

206         self.set_font("DejaVu", "B", 16)
207         self._safe_multicell("Table of Contents", line_h=10)
208         self.ln(1)  # Reduced from 2

210         # Guard: don't let ToC overflow this single page (truncate gracefully)
211         bottom_limit = self.h - self.b_margin
212         self.set_font("DejaVu", size=11)
213         truncated = False
214         for label, level, page in self._toc:
215             if self.get_y() + 8 > bottom_limit:
216                 truncated = True
217                 break
218             indent = " " * level
219             text = f"{indent}{normalize_text_for_pdf(label)}"
220             link_id = self._links.get(label)
221             y_before = self.get_y()
222             self.set_x(self.l_margin)
223             self.cell(self._page_width_available(), 7, text, ln=0, link=link_id)
224             self.set_xy(self.l_margin, y_before)
225             self.cell(self._page_width_available(), 7, str(page), align="R", ln=1)

227         if truncated:
228             self.ln(1)
229             self.set_font("DejaVu", "B", 10)
230             self._safe_multicell("… ToC truncated", line_h=6)

232         # Return to where we were (append mode)
233         self.page = current_page
234         self.set_xy(current_x, current_y)

236     def toc_add(self, label: str, level: int = 0):
```

237

```
            self._toc.append((label, level, self.page_no()))
        # Internal link target bookkeeping
        try:
            link_id = self.add_link()
            self._links[label] = link_id
            self.set_link(link_id, y=self.get_y(), page=self.page_no())
        except Exception:
            pass

    # ------------------------------ Sections ---------------------------------
    def add_overview_section(self, overview: Dict[str, object]):
        """Overview section summarizing repo for humans & LLMs (text only)."""
        # Header state for this page
        self._hdr_path = "Overview"
        self._hdr_lang = ""
        self._hdr_lines = None

        self.add_page()
        title = "Overview"
        self.set_font("DejaVu", "B", 16)
        self._safe_multicell(title, line_h=10)
        self.ln(0.5)  # Reduced from 1
        self.toc_add(title, level=0)

        self.set_font("DejaVu", size=11)
        line_h = 5.5  # Reduced from 6

        def p(text: str = ""):
            self._safe_multicell(normalize_text_for_pdf(text), line_h=line_h)
            if text:
                self.ln(0.2)  # Add minimal spacing only for non-empty text

        def bullet(text: str):
            self._safe_multicell(f"• {normalize_text_for_pdf(text)}", line_h=line_h)

        title_text = overview.get("title") or ""
        subtitle_text = overview.get("subtitle") or ""
        desc = overview.get("description") or ""
        features: List[str] = overview.get("features") or []
        usage = overview.get("usage") or ""
```

277

```
        exts: List[Tuple[str, int]] = overview.get("ext_counts") or []
        total_files: int = overview.get("total_files") or 0
        deps: List[str] = overview.get("dependencies") or []

        if title_text:
            self.set_font("DejaVu", "B", 12)
            p(str(title_text))
            self.set_font("DejaVu", size=11)
        if subtitle_text:
            p(str(subtitle_text))
        if desc:
            p(str(desc))

        if features:
            self.ln(0.6)  # Reduced from 1
            self.set_font("DejaVu", "B", 12)
            p("Key Features")
            self.set_font("DejaVu", size=11)
            for f in features[:8]:
                bullet(str(f))

        if usage:
            self.ln(0.6)  # Reduced from 1
            self.set_font("DejaVu", "B", 12)
            p("Quick Usage")
            self.set_font("DejaVuMono", size=10)
            self._safe_multicell(str(usage), line_h=5)  # Reduced from 5.5
            self.set_font("DejaVu", size=11)

        if exts:
            self.ln(0.6)  # Reduced from 1
            self.set_font("DejaVu", "B", 12)
            p("Files & Languages")
            self.set_font("DejaVu", size=11)
            for ext, cnt in exts[:8]:
                bullet(f"{ext} - {cnt} file(s)")
            bullet(f"Total files: {total_files}")

        if deps:
            self.ln(0.6)  # Reduced from 1
```

317

```
            self.set_font("DejaVu", "B", 12)
            p("Dependencies")
            self.set_font("DejaVu", size=11)
            for d in deps[:12]:
                bullet(d)

    # ---- Code rendering with native syntax highlighting, background, line numbers
    def _ensure_lexer(self, rel_path: str, content: str):
        try:
            return get_lexer_for_filename(rel_path, stripnl=False)
        except Exception:
            try:
                return guess_lexer(content)
            except Exception:
                return TextLexer()

    def _write_code_with_highlighting(
        self,
        rel_path: str,
        content: str,
        *,
        line_numbers: bool = True,
        font_size: int = 9,
    ):
        """
        Write code using token-by-token coloring. Avoids drawing an empty band:
        we only draw the background after we know we'll print text on the line.
        """
        content = content.replace("\t", "    ") # Normalize tabs
        lexer = self._ensure_lexer(rel_path, content)

        self.set_font("DejaVuMono", size=font_size)
        # Reduced line height for tighter spacing
        line_h = max(4.0, font_size * 0.38 + 3.2)

        # Layout geometry
        left_x = self.l_margin
        right_x = self.w - self.r_margin
        bottom_limit = self.h - self.b_margin
        lines_total = (content.count("\n") + 1) if content else 1
```

357

```
            gutter_w = (self.get_string_width(str(lines_total)) + 4) if line_numbers else 0.0
358         code_x = left_x + gutter_w

360         # State for current visual line
361         cur_line_no = 1
362         at_line_start = True # start of a visual line (no text yet)
363         drew_band_this_line = False # background band drawn?
364         wrote_line_number = False # line number drawn?

366         def start_new_visual_line(new_logical: bool = False):
367             nonlocal at_line_start, drew_band_this_line, wrote_line_number, cur_line_no
368             # Move down a line; auto page break is on
369             self.ln(line_h)
370             at_line_start = True
371             drew_band_this_line = False
372             wrote_line_number = False
373             # If this is because we finished a logical line, increment number now
374             if new_logical:
375                 cur_line_no += 1

377         def ensure_band_and_gutter():
378             """Draw background + gutter only once, right before first text on the visual line.
378 """
379             nonlocal drew_band_this_line, wrote_line_number
380             if drew_band_this_line:
381                 return
382             y = self.get_y()
383             if y + line_h > bottom_limit:
384                 # page is about to break; after break we are at new page top
385                 pass
386             # Draw band
387             self.set_fill_color(248, 248, 248)
388             self.rect(left_x, y, right_x - left_x, line_h, style="F")
389             # Gutter
390             if line_numbers and not wrote_line_number:
391                 self.set_text_color(150, 150, 150)
392                 self.set_xy(left_x, y)
393                 self.cell(gutter_w, line_h, str(cur_line_no).rjust(len(str(lines_total))), ali
393 gn="R")
394                 wrote_line_number = True
```

395

```
                # Move to code start
396             self.set_xy(code_x, y)
397             drew_band_this_line = True

399         # Begin at current Y; do not pre-draw anything
400         if at_line_start:
401             # just position cursor at code area before first text
402             self.set_x(code_x)

404         # Render each logical line with wrapping
405         for logical_line in (content.splitlines(True) or [""]):
406             pieces = list(lex(logical_line, lexer))

408             for tok_type, txt in pieces:
409                 # Split into printable and whitespace chunks to allow wrapping at spaces
410                 for chunk in re.split(r"(\s+)", txt):
411                     if chunk == "":
412                         continue
413                     if chunk == "\n":
414                         # finish logical line: advance to next visual line as a new logical li
414 ne
415                         start_new_visual_line(new_logical=True)
416                         continue

418                     # We are about to print something: ensure band & gutter once
419                     ensure_band_and_gutter()
420                     at_line_start = False

422                     # Soft wrap if needed
423                     piece = chunk
424                     while piece:
425                         available = right_x - self.get_x()
426                         piece_w = self.get_string_width(piece)

428                         if piece_w <= available:
429                             r, g, b = _rgb_for(tok_type)
430                             self.set_text_color(r, g, b)
431                             self.cell(piece_w, line_h, piece, ln=0)
432                             piece = ""
433                         else:
```

434

```
                            # Need to break piece - largest prefix that fits
435                         lo, hi = 0, len(piece)
436                         while lo < hi:
437                             mid = (lo + hi + 1) // 2
438                             if self.get_string_width(piece[:mid]) <= available:
439                                 lo = mid
440                             else:
441                                 hi = mid - 1
442                         prefix = piece[:lo] if lo > 0 else ""
443                         rest = piece[lo:] if lo < len(piece) else ""
444                         if prefix:
445                             r, g, b = _rgb_for(tok_type)
446                             self.set_text_color(r, g, b)
447                             self.cell(self.get_string_width(prefix), line_h, prefix, ln=0)
448                         # move to next visual line (continuation, same logical line number
448 )
449                         start_new_visual_line(new_logical=False)
450                         ensure_band_and_gutter()
451                         piece = rest

453             # If the logical line did not end with "\n", we need to move to next logical line
454             if not logical_line.endswith("\n"):
455                 start_new_visual_line(new_logical=True)

457         # Reset color
458         self.set_text_color(0, 0, 0)

460     def _detect_language_label(self, rel_path: str, content: str) -> str:
461         # Try pygments lexer name
462         try:
463             lexer = get_lexer_for_filename(rel_path, stripnl=False)
464             return getattr(lexer, "name", "Text")
465         except Exception:
466             try:
467                 lexer = guess_lexer(content)
468                 return getattr(lexer, "name", "Text")
469             except Exception:
470                 # Fall back to extension
471                 ext = os.path.splitext(rel_path)[1].lower() or "(no ext)"
472                 return {"": "Text"}.get(ext, ext or "Text")
```

474

```
    def _estimate_block_height(self, line_count: int, font_size: int = 9) -> float:
        """Rough height estimate for small-file packing (title + meta + lines)."""
        title_h = 8.0  # Reduced from 9.0
        meta_h = 5.0   # Reduced from 5.5
        line_h = max(4.0, font_size * 0.38 + 3.2)
        return title_h + 0.5 + meta_h + 0.5 + line_count * line_h + 1

    def _set_header_context(self, path: str, lang: str, lines: int):
        self._hdr_path = path
        self._hdr_lang = lang
        self._hdr_lines = lines

    def add_file_section(self, rel_path: str, content: str, *, force_new_page: bool = True):
        """Render a file. If force_new_page=False we try to keep adding on the same page."""
        # Body (code with native highlighting)
        content = normalize_text_for_pdf(content)
        # Safety: soft-wrap pathological long lines before rendering
        if content and len(max(content.splitlines() or [""], key=len)) > 2000:
            content = "\n".join(_soft_wrap(line, width=200) for line in content.splitlines())

        lang = self._detect_language_label(rel_path, content)
        line_count = content.count("\n") + (1 if content and not content.endswith("\n") else 0
)
        line_count = max(1, line_count)

        # Page decision for small files
        est_h = self._estimate_block_height(min(line_count, 40))
        bottom_limit = self.h - self.b_margin
        need_new_page = force_new_page or (self.get_y() + est_h > bottom_limit)

        if need_new_page:
            # Update header state for this page
            self._set_header_context(rel_path, lang, line_count)
            self.add_page()
        else:
            # Update header context to reflect the first file on this page
            if self.page_no() == 0:
                self.add_page()
            if self._hdr_path == self.meta.title:
                self._set_header_context(rel_path, lang, line_count)
```

514

```
            # File title
515         self.set_font("DejaVu", "B", 14)
516         self._safe_multicell(normalize_text_for_pdf(rel_path), line_h=8)  # Reduced from 9

518         # File meta line: language + line count
519         self.set_font("DejaVu", size=9)
520         self.set_text_color(110)
521         meta_line = f"{lang} • {line_count} line(s)"
522         self._safe_multicell(meta_line, line_h=5)  # Reduced from 5.5
523         self.set_text_color(0)
524         self.ln(0.4)  # Reduced from 1

526         # ToC + link
527         self.toc_add(rel_path, level=0)

529         # Code
530         self._write_code_with_highlighting(rel_path, content, line_numbers=True, font_size=9)

532     # ------------------------------ Appendix ---------------------------------
533     def add_appendix(self, summary: Optional[Dict[str, Any]]):
534         if not summary:
535             return

537         self._hdr_path = "Appendix"
538         self._hdr_lang = ""
539         self._hdr_lines = None

541         self.add_page()
542         self.set_font("DejaVu", "B", 16)
543         self._safe_multicell("Appendix: Skipped & condensed", line_h=10)
544         self.ln(1)  # Reduced from 2
545         self.set_font("DejaVu", size=11)

547         def row(label: str, value: Any):
548             self.set_font("DejaVu", "B", 11)
549             self._safe_multicell(label, line_h=5.5)  # Reduced from 6
550             self.set_font("DejaVu", size=11)
551             self._safe_multicell(str(value), line_h=5.5)  # Reduced from 6
552             self.ln(0.3)  # Reduced from 1
```

554

```
            counts = summary.get("counts", {})
555         notes = summary.get("notes", [])
556         packed = summary.get("packed_small_files", 0)

558         row("Skipped (gitignored)", counts.get("gitignored", 0))
559         row("Skipped (excluded dirs)", counts.get("excluded_dir", 0))
560         row("Skipped (manual excludes)", counts.get("manual_exclude", 0))
561         row("Skipped (binary by extension)", counts.get("binary_ext", 0))
562         row("Skipped (binary by magic/heuristic)", counts.get("binary_magic", 0))
563         row("Skipped (too large)", counts.get("too_large", 0))
564         row("Read/decoding errors", counts.get("read_errors", 0))
565         row("Packed small files (co-located per page)", packed)

567         if notes:
568             self.ln(1)  # Reduced from 2
569             self.set_font("DejaVu", "B", 12)
570             self._safe_multicell("Notes", line_h=6)  # Reduced from 7
571             self.set_font("DejaVu", size=11)
572             for n in notes:
573                 self._safe_multicell(f"• {n}", line_h=5.5)  # Reduced from 6


576 # ---------------------------------------------------------------------------
577 # Public API
578 # ---------------------------------------------------------------------------

580 def generate_pdf(
581     files: Iterable[Tuple[str, str]],
582     output_path: str,
583     meta: Optional[PDFMeta] = None,
584     summary: Optional[Dict[str, Any]] = None,
585 ) -> str:
586     """
587     Generate a polished PDF from an iterable of (relative_path, content).

589     Adds:
590     - Cover
591     - Table of Contents (at the start; one page, truncated if needed)
592     - Text Overview section (LLM + human friendly)
593     - File sections (syntax-highlighted, small-file packing)
```

594

```
        - Appendix with skip/condense summary
    """
    meta = meta or PDFMeta(title="Repository Export", generated_at=datetime.utcnow())
    files = list(files) # iterate twice safely
    pdf = RepoPDF(meta)

    # 1) Cover
    pdf.add_cover()

    # 2) Reserve a page for the ToC (at the start). We fill it later.
    pdf.reserve_toc_page()

    # 3) Overview
    overview = _build_overview_data(files, meta)
    pdf.add_overview_section(overview)

    # 4) Sections with small-file packing
    SMALL_LINE_THRESHOLD = 40  # Increased from 30 to pack more files together
    current_page_small_lines = 0
    for rel_path, content in files:
        # Safety for pathological lines (still soft wrap later)
        if content and len(max(content.splitlines() or [""], key=len)) > 4000:
            content = "\n".join(_soft_wrap(line, width=200) for line in content.splitlines())

        line_count = content.count("\n") + (1 if content and not content.endswith("\n") else 0
)
        line_count = max(1, line_count)

        if line_count <= SMALL_LINE_THRESHOLD:
            # Try to keep adding on same page until space runs out
            pdf.add_file_section(rel_path, content, force_new_page=False)
            current_page_small_lines += line_count
        else:
            # Large file: force a new page
            current_page_small_lines = 0
            pdf.add_file_section(rel_path, content, force_new_page=True)

    # 5) Go back and render ToC on the reserved page (truncate if too long)
    pdf.render_toc_on_reserved_page()
```

633

```
        # 6) Appendix
634     pdf.add_appendix(summary)

636     # 7) Save
637     os.makedirs(os.path.dirname(output_path) or ".", exist_ok=True)
638     pdf.output(output_path)
639     return output_path

641 # ---------------------------------------------------------------------------
642 # Helpers
643 # ---------------------------------------------------------------------------

645 def _soft_wrap(line: str, width: int) -> str:
646     if len(line) <= width:
647         return line
648     return "\n".join(line[i:i+width] for i in range(0, len(line), width))

650 def _strip_readme_images(text: str) -> str:
651     # Remove markdown image syntax ![alt](url) and <img ...> HTML tags
652     text = re.sub(r"!\[[^\]]*\]\([^)]+\)", "", text)
653     text = re.sub(r"<img\s+[^>]*>", "", text, flags=re.IGNORECASE)
654     return text

656 def _build_overview_data(files: List[Tuple[str, str]], meta: PDFMeta) -> Dict[str, object]:
657     """
658     Build a compact, LLM-friendly + human-friendly overview using repo content:
659     - Name, purpose (from README if present)
660     - Headline features (from README bullets)
661     - Usage (from README or CLI hints)
662     - Language & file stats
663     - Dependencies (requirements.txt, pyproject)
664     """
665     file_map: Dict[str, str] = {p.lower(): c for p, c in files}

667     # README
668     readme_name = next((p for p, _ in files if os.path.basename(p).lower() in {"readme.md", "r
668 eadme"}), None)
669     readme = file_map.get(readme_name.lower(), "") if readme_name else ""
670     readme = _strip_readme_images(readme)
```

672

```
    title = meta.title or "Repository"
    subtitle = meta.subtitle or ""

    # Description: first paragraph of README (strip headings)
    desc = ""
    if readme:
        text = re.sub(r"^#{1,6}\s+.*$", "", readme, flags=re.MULTILINE).strip()
        parts = [p.strip() for p in text.split("\n\n") if p.strip()]
        if parts:
            desc = parts[0][:800]

    # Features: README bullet list (first 5-8)
    features: List[str] = []
    if readme:
        for line in readme.splitlines():
            if re.match(r"^\s*[-*]\s+", line):
                features.append(re.sub(r"^\s*[-*]\s+", "", line).strip())
            if len(features) >= 8:
                break

    # Usage: a code snippet containing 'repo2pdf'
    usage = ""
    if readme:
        m = re.search(r"```(?:bash|sh)?\s*([^`]*repo2pdf[^\n`]*\n(?:.*?\n)*)```", readme, flag
s=re.IGNORECASE)
        if m:
            usage = m.group(1).strip()
        if not usage:
            usage = "repo2pdf # Follow interactive prompts"

    # Language & file stats
    from collections import Counter
    ext_counts = Counter()
    for p, _ in files:
        ext = os.path.splitext(p)[1].lower() or "(no ext)"
        ext_counts[ext] += 1
    top_exts = sorted(ext_counts.items(), key=lambda kv: kv[1], reverse=True)[:8]
    file_count = sum(ext_counts.values())

    # Dependencies
```

711

```
    deps: List[str] = []
    req = file_map.get("requirements.txt", "")
    if req:
        for line in req.splitlines():
            line = line.strip()
            if line and not line.startswith("#"):
                deps.append(line)
    pyproject = file_map.get("pyproject.toml", "")
    if pyproject and not deps:
        for name in ("fpdf2", "GitPython", "inquirer", "pathspec", "pygments", "pytest"):
            if name in pyproject and name not in deps:
                deps.append(name)

    return {
        "title": title,
        "subtitle": subtitle,
        "description": desc,
        "features": features,
        "usage": usage,
        "ext_counts": top_exts,
        "total_files": file_count,
        "dependencies": deps,
    }

# --- token color theme -------------------------------------------------------

# Simple light theme for tokens (tweak as you like)
THEME = {
    Token.Comment: (120, 120, 120),
    Token.Keyword: (170, 55, 140),
    Token.Keyword.Namespace: (170, 55, 140),
    Token.Name.Function: ( 30, 120, 180),
    Token.Name.Class: ( 30, 120, 180),
    Token.Name.Decorator: (135, 110, 180),
    Token.String: ( 25, 140, 65),
    Token.Number: (190, 110, 30),
    Token.Operator: ( 90, 90, 90),
    Token.Punctuation: ( 90, 90, 90),
    Token.Name.Builtin: ( 30, 120, 180),
    Token.Name.Variable: ( 0, 0, 0),
```

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```
        Token.Text: ( 0, 0, 0),
}

def _rgb_for(tok_type):
    # Find first mapping that contains this token type, else default black
    for t, rgb in THEME.items():
        if tok_type in t:
            return rgb
    return (0, 0, 0)
```

repo2pdf/utils.py

Python • 83 line(s)

```python
import os
import mimetypes
import json

EXTENSION_LANGUAGE_MAP = {
    # Programming languages
    '.py': 'Python',
    '.js': 'JavaScript',
    '.ts': 'TypeScript',
    '.java': 'Java',
    '.c': 'C',
    '.cpp': 'C++',
    '.cs': 'C#',
    '.rb': 'Ruby',
    '.go': 'Go',
    '.rs': 'Rust',
    '.php': 'PHP',
    '.swift': 'Swift',
    '.kt': 'Kotlin',
    '.m': 'Objective-C',
    '.scala': 'Scala',
    '.sh': 'Shell Script',
    '.bat': 'Batch Script',
    '.ps1': 'PowerShell',
    '.pl': 'Perl',
    '.r': 'R',

    # Web & markup
    '.html': 'HTML',
    '.htm': 'HTML',
    '.css': 'CSS',
    '.scss': 'SCSS',
    '.sass': 'SASS',
    '.less': 'LESS',
    '.json': 'JSON',
    '.xml': 'XML',
    '.yml': 'YAML',
    '.yaml': 'YAML',
```

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```
        '.md': 'Markdown',

    # Config & data
    '.env': 'Environment Config',
    '.ini': 'INI Config',
    '.conf': 'Config',
    '.cfg': 'Config',
    '.toml': 'TOML Config',
    '.gradle': 'Gradle Build File',
    '.dockerfile': 'Dockerfile',

    # Text & miscellaneous
    '.txt': 'Plain Text',
    '.log': 'Log File',
    '.csv': 'CSV',
    '.tsv': 'TSV',
}


def output_json(files, output_path):
    data = []
    for filename, content in files:
        ext = os.path.splitext(filename)[1]
        language = EXTENSION_LANGUAGE_MAP.get(ext)

        if not language:
            # Fall back to mimetypes
            mime_type, _ = mimetypes.guess_type(filename)
            if mime_type:
                # Use the subtype (e.g. 'plain' from 'text/plain') or mime_type as fallback
                language = mime_type.split('/')[1] if '/' in mime_type else mime_type
            else:
                language = 'Unknown'

        data.append({
            "path": filename,
            "language": language,
            "content": content
        })
```

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```
        json_path = output_path.replace(".pdf", ".json")
    with open(json_path, 'w') as f:
        json.dump({"files": data}, f, indent=2)

    print(f"  JSON saved to {json_path}")
```

requirements.txt

Text only • 6 line(s)

```
fpdf2
GitPython
inquirer
pathspec
pytest
pygments>=2.13
```

setup.py

Python • 17 line(s)

```
from setuptools import setup, find_packages

setup(
    name='repo2pdf',
    version='0.1.0',
    packages=find_packages(),
    install_requires=[
        'fpdf2',
        'GitPython',
        'inquirer'
    ],
    entry_points={
        'console_scripts': [
            'repo2pdf=repo2pdf.cli:main',
        ],
    },
)
```

tests/__init__.py

Python • 1 line(s)

tests/test_core.py

Python • 86 line(s)

```python
import os
import tempfile
from repo2pdf.core import traverse_repo
import os
import tempfile
from repo2pdf.core import process_local_repo

def test_traverse_repo_reads_files():
    with tempfile.TemporaryDirectory() as tmpdir:
        # Create a dummy file
        file_path = os.path.join(tmpdir, "test.py")
        with open(file_path, "w") as f:
            f.write("print('hello')")

        files = traverse_repo(tmpdir)

        assert len(files) == 1
        assert files[0][0] == "test.py"
        assert "print('hello')" in files[0][1]

def test_traverse_repo_excludes_specified_files():
    with tempfile.TemporaryDirectory() as tmpdir:
        # Create two files: one .py and one .png
        py_path = os.path.join(tmpdir, "test.py")
        png_path = os.path.join(tmpdir, "image.png")

        with open(py_path, "w") as f:
            f.write("print('hello')")

        with open(png_path, "w") as f:
            f.write("binarydata")

        from repo2pdf.core import traverse_repo
        files = traverse_repo(tmpdir)

        # Default traverse_repo (no exclude param) should return both files
        assert any(f[0] == "test.py" for f in files)
```

```
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```

```
        # Now test excluding .png
        files_exclude = traverse_repo(tmpdir, exclude_list=[".png"])
        assert any(f[0] == "test.py" for f in files_exclude)
        assert not any(f[0] == "image.png" for f in files_exclude)

def test_process_remote_repo_clones_and_generates(monkeypatch):
    from repo2pdf.core import process_remote_repo
    import tempfile
    import os

    # Use a very small public GitHub repo for testing
    test_repo_url = "https://github.com/octocat/Hello-World.git"

    with tempfile.TemporaryDirectory() as tmpdir:
        output_path = os.path.join(tmpdir, "output.pdf")

        # Monkeypatch os.getcwd to tmpdir so output is saved there
        monkeypatch.setattr(os, "getcwd", lambda: tmpdir)

        # Run process_remote_repo with delete=True to clean up after test
        process_remote_repo(test_repo_url, want_json=True, output_path=output_path, exclude_lis
t=[], delete=True)

        assert os.path.exists(output_path)
        assert os.path.getsize(output_path) > 0

        json_path = output_path.replace(".pdf", ".json")
        assert os.path.exists(json_path)

def test_process_local_repo_creates_outputs(monkeypatch):
    with tempfile.TemporaryDirectory() as tmpdir:
        # Create a dummy local repo file
        file_path = os.path.join(tmpdir, "test.py")
        with open(file_path, "w") as f:
            f.write("print('hello')")

        output_path = os.path.join(tmpdir, "repo_output.pdf")

        # Monkeypatch os.getcwd to tmpdir so outputs are saved there
        monkeypatch.setattr(os, "getcwd", lambda: tmpdir)
```

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```
        # Run process_local_repo with JSON generation
        process_local_repo(tmpdir, want_json=True)

        assert os.path.exists(output_path)
        assert os.path.getsize(output_path) > 0

        json_path = output_path.replace(".pdf", ".json")
        assert os.path.exists(json_path)
```

tests/test_pdf.py

Python • 13 line(s)

```
import os
import tempfile
from repo2pdf.pdf import generate_pdf

def test_generate_pdf_creates_file():
    with tempfile.TemporaryDirectory() as tmpdir:
        output_path = os.path.join(tmpdir, "output.pdf")
        files = [("test.py", "print('hello')")]

        generate_pdf(files, output_path)

        assert os.path.exists(output_path)
        assert os.path.getsize(output_path) > 0
```

tests/test_utils.py

Python • 20 line(s)

```python
import os
import tempfile
import json
from repo2pdf.utils import output_json

def test_output_json_creates_valid_file():
    with tempfile.TemporaryDirectory() as tmpdir:
        output_path = os.path.join(tmpdir, "output.pdf")
        files = [("test.py", "print('hello')")]

        output_json(files, output_path)

        json_path = output_path.replace(".pdf", ".json")
        assert os.path.exists(json_path)

        with open(json_path) as f:
            data = json.load(f)
            assert "files" in data
            assert data["files"][0]["path"] == "test.py"
            assert "print('hello')" in data["files"][0]["content"]
```

Appendix: Skipped & condensed

Skipped (gitignored)
155
Skipped (excluded dirs)
107
Skipped (manual excludes)
0
Skipped (binary by extension)
6
Skipped (binary by magic/heuristic)
2
Skipped (too large)
0
Read/decoding errors
0
Packed small files (co-located per page)
0