

LEVERAGING ADOBE ACROBAT SERVICES

AKA

**DOING COOL STUFF WITH
DOCUMENTS!!**

SLIDE/DEMO REPO:

**GITHUB.COM/CFJEDIMASTER/DOCUMENT-
SERVICES-PRESO**

READ.ME

- Raymond Camden
- Senior Developer Evangelist for Adobe
- raymondcamden.com
- Mastodon, BlueSky, Threads, MySpace, AIM, Prodigy



ACROBAT SERVICES

- Viewing (plus more) PDFs on the Web
 - Free!
- Manipulating (slice, dice, etc) PDFs on the Server
 - Not Free! (but free tier!)

ADOBE PDF EMBED

ADOBE PDF EMBED

- JavaScript solution for viewing PDFs on the Web
- Provides much more control over the experience
- Multiple viewing types
- Multiple hooks into the document
- Free

DEMO

HOW'S IT DONE...

STEPS

1. Get a key



developer.adobe.com/document-services/apis/pdf-embed/

KEYS ARE HOST SPECIFIC!

STEPS

1. Get a key
2. Load the library

```
<script  
src="https://acrobat-services.adobe.com/  
</script>
```



STEPS

1. Get a key
2. Load the library
3. Check for library load

OPTION 1

```
document.addEventListener("adobe_dc_view_sd  
    // stuff here  
});
```



OPTION 2 (USE THIS!)

```
if(window.AdobeDC) displayPDF();  
else document.addEventListener("adobe_dc_view_ready",  
    () => displayPDF());
```



STEPS

1. Get a key
2. Load the library
3. Check for library load
4. Initialize and load PDF

```
// ADOBE_KEY is your credential
// mypdf is the ID of a div in your HTML
let adobeDCView = new AdobeDC.View({
  clientId: ADOBE_KEY,
  divId: "mypdf"
});

adobeDCView.previewFile({
  content:{ location: { url: "pdfs/cat.pdf" }
  metaData:{ fileName: "cat.pdf" }
});
```



DEMO

CHANGING THE VIEW

- "Sized Container" (focused on one page at a time)
- "Full Window" (default, displays PDF in stream)
- "In-Line" (stretches the PDF length wise to show whole thing)
- "Lightbox" (modal window)

SPECIFY MODE

```
let adobeDCView = new AdobeDC.View({
  clientId: ADOBE_KEY, divId: "mypdf"
});

adobeDCView.previewFile({
  content: { location: {url: "/pdfs/cat.pdf"
    metaData: { fileName: "cat.pdf" }
  },
  {
    embedMode: "IN_LINE"
  }
});
```



DEMO

MORE CUSTOMIZATION

- Show/Hide UI
- Disable Print/Save
- Disable annotations/comments
- **UI customization docs**

TWEAK UI

```
let adobeDCView = new AdobeDC.View({
  clientId: ADOBE_KEY, divId: "mypdf"
});

adobeDCView.previewFile({
  content: { location: {url: "/pdfs/cat."
  metaData: { fileName: "cat.pdf" }
},
{
  showDownloadPDF: false,
  showPrintPDF: false,
  showAnnotationTools: false,
  showLeftHandPanel: false
```

INTEGRATIONS AND EVENTS

- Get metadata
- Change pages, change zooms, do searches
- Annotation API
- Adobe Analytics
- Event support

ONLINE SANDBOX

OFF TO SERVER LAND!

OFFERINGS

- Six core services
- SDKs for Java, Node, .Net, and Python^{*}
- REST APIs ✨
- Free tier is 500 "transactions" per month
- Credentials required

APIS

- PDF Services API
- Document Generation API
- PDF Extract API
- PDF Accessibility Auto-Tag
- Electronic Seal
- Adobe Sign

PDF SERVICES

- Formally known as PDF Tools
- Everything related to PDF creation and manipulation

PDF SERVICES

- Create a PDF from Word, Powerpoint, Excel, text, images, static and dynamic HTML
- Export a PDF to Office, text, or images
- Combine PDFs (or specific pages) into one
- OCR a PDF
- Compress and Linearize a PDF
- Add a password or lock permissions (like print)
- Insert, replace, shift around, rotate, and remove pages
- Split a PDF by number of pages, ranges, or file count
- Get PDF properties

GENERAL API PSEUDO-CODE FLOW

- * Get your access token (with credentials)
- * Upload an asset
- * Tell Adobe to do X with it
- * Check for status
- * Download result



You can also (in most cases) use cloud-storage files instead.

Get Started with Acrobat Services APIs

To get started, sign in or create your free Adobe account and create unique credentials you'll use in your project.

What are you looking to do?

PDF SERVICES API

Auto-Tag for accessibility, extract data, generate documents, and perform other tasks with PDF

PDF APIs with SDKs for Node.js, .Net and Java to extract content, create, convert, OCR PDFs, and more.
Start with the Free Tier and get 500 free Document Transactions per month.

Create credentials

Check usage

PDF EMBED API

Embed a PDF into my website or app

Free JavaScript API to embed high-fidelity PDFs, enable collaboration, and see analytics.

Unlimited access for free.

Create credentials

CLIENT ID

XXXXXXXXXXXXXXXXXXXXXXXXXXXX



Copy

CLIENT SECRET

Retrieve client secret

GET ACCESS TOKEN

POST <https://pdf-services-ue1.adobe.io/token>

```
{  
  "client_id": "your client id",  
  "client_secret": "your client secret"  
}
```



DEMO

Get token demo

CREATE/UPLOAD ASSET

```
POST https://pdf-services-ue1.adobe.io/asse
```

```
{  
  "mediaType": "mime type of asset"  
}
```

Result:

```
{  
  "assetID": "urn:aaid:AS:UE1:23c30ee0-2c4d  
  "uploadUri": "a unique url, special, with  
}
```

DEMO

Create and upload asset

DO SOMETHING!

```
// Convert a document into PDF...  
POST https://pdf-services-ue1.adobe.io/open  
  
{  
  "assetID":"id from previous call",  
  "documentLanguage":"en-US"  
}
```

If you did it correctly, the location header has your "job" url.

DEMO

Kick off a Create PDF job

CHECK THE JOB

```
POST {{ job url }}
```

DEMO

Check the job status

DOWNLOAD THE BITS

Just do it (no auth required, just hit the URL)

DEMO

Get it!

RECAP

1. Exchange creds for Access Token
2. Create and upload asset (not required)
3. Start a job
4. Check status
5. Download
6. And repeat...

EXTERNAL SUPPORT

- Sharepoint
- Dropbox
- Azure Blob
- Amazon S3
- **Not Supported:** Extract, Split, Seal, Auto-Tag

EXTERNAL SUPPORT

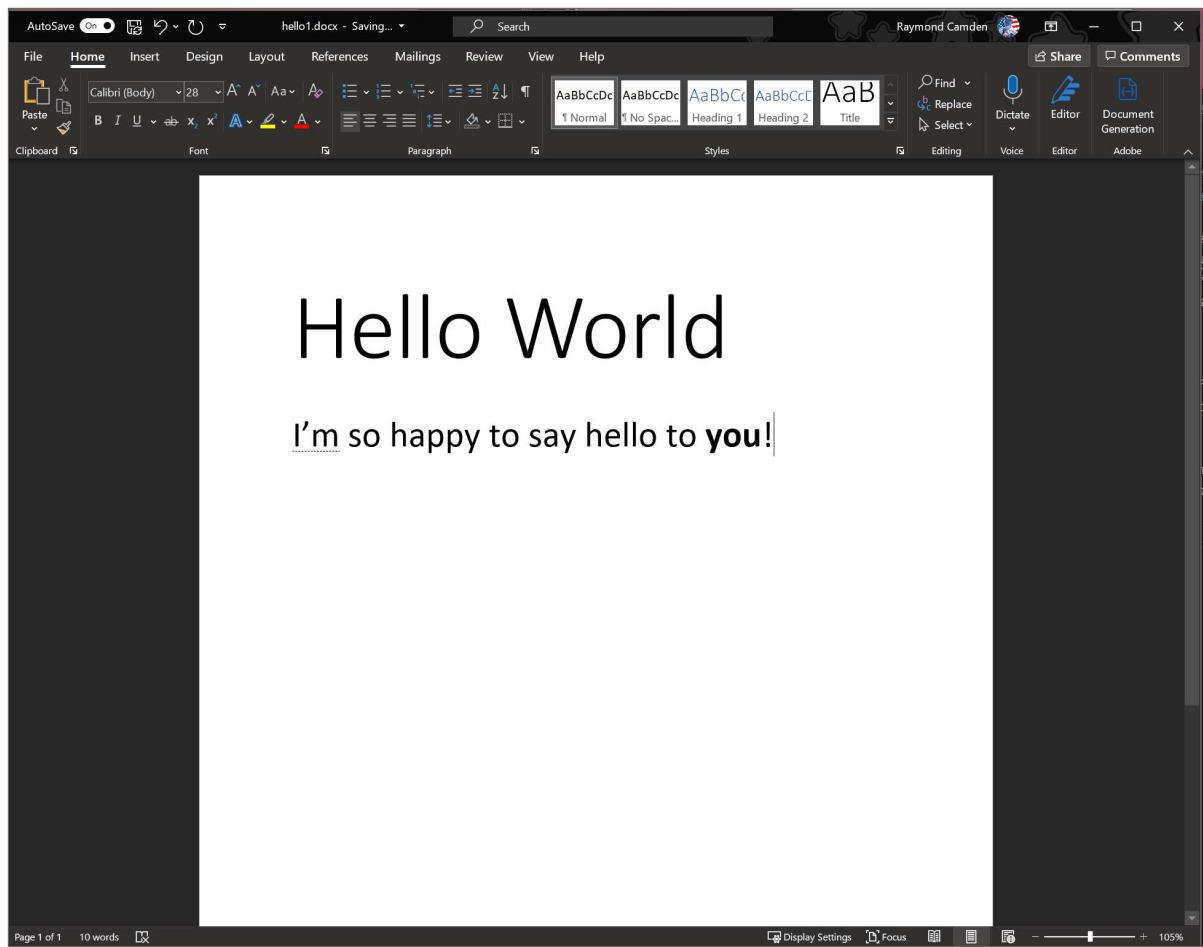
1. Exchange creds for Access Token
2. Create links for input/output^{*}
3. Start a job
4. Check status (maybe...)
5. And repeat...

PDF SERVICES (MORE)

- Remember: Used to be PDF Tools
- You can chain (do OCR, do password protect)

DOCUMENT GENERATION

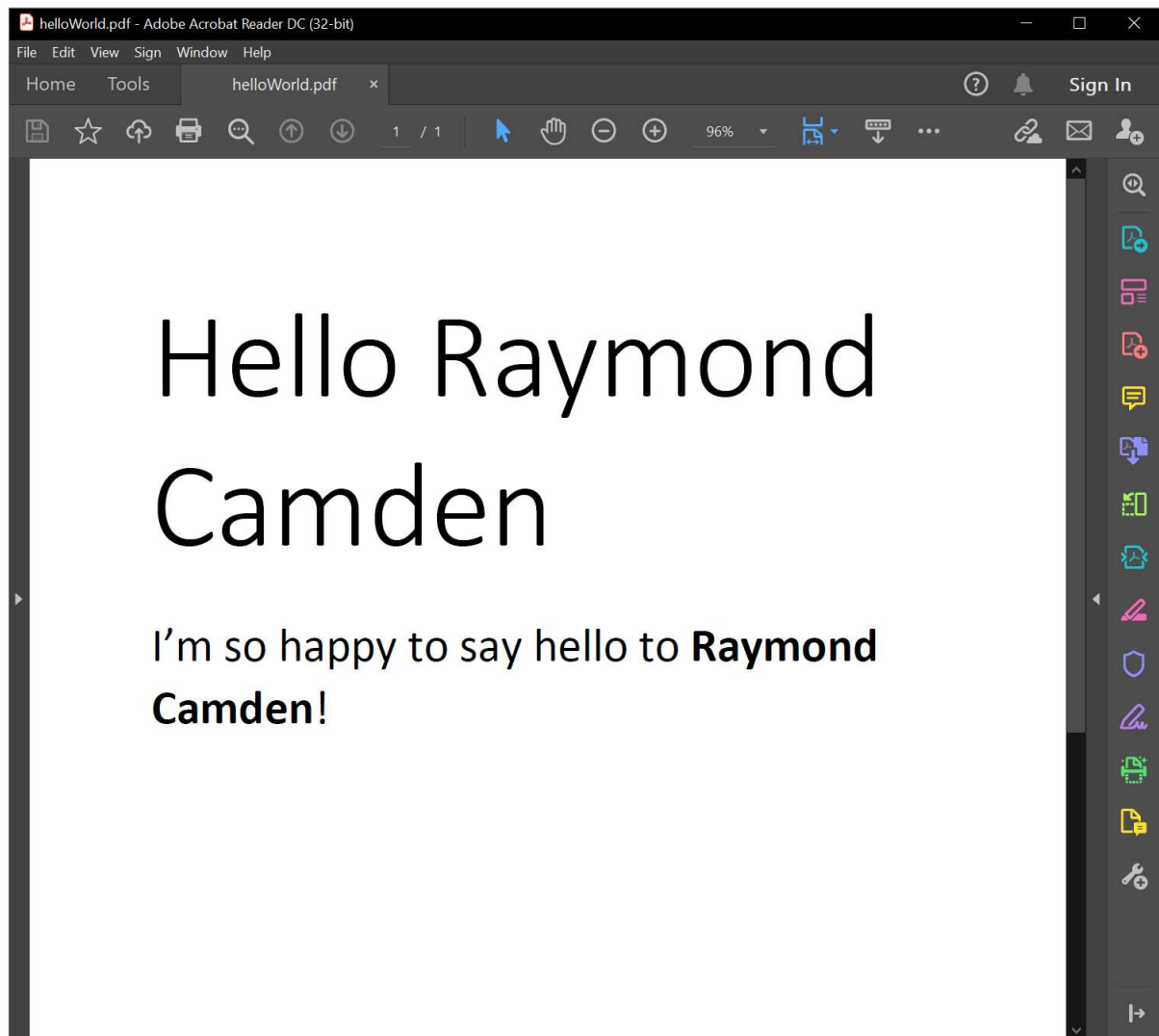
- Dynamic document creation at scale
- Uses a Word document as a template
- Our API takes the document + your data
- Outputs a PDF (or Word)



Hello {{name}}

I'm so happy to say hello to **{{name}}**!





DOCUMENT GENERATION

- Uses JSONata (<https://jsonata.org/>)
- Supports looping, conditionals, formatting functions
- "Your data" means anything

DEMO

DOCUMENT GENERATION

- Bunch of templates
- Cool online demo

PDF EXTRACT API

- Powered by AI/ML and Adobe Sensei
- Returns *incredibly* detailed information about a PDF document
- Can return images
- Can return tables as images, CSV, or XLSX

VISUALIZER

DEMO

Extracting all text, or just major headers.

PDF ACCESSIBILITY AUTO-TAG

- Powered by AI/ML and Adobe Sensei
- Tag tables, paragraphs, lists, and headings
- Identifies reading order
- Generates a report (XLS)
- Read this next bullet point in serious-mode Ray:
- Not meant to be a 100% solution

DEMO

ELECTRONIC SEAL API

- "Seals" a PDF (you're welcome)
- Marks an "organization" as having generated a document
- If signing a PDF is person X, a seal is company Y
- Works with a Trust Service Provider (TSP)
- And optionally a Timestamping Authority (TSA)

DEMO

MORE STUFF

- Main Site
- Support Forums

ACROBAT SIGN API

- E-Signature solution
- Allows automation
- OAuth (User initiated)
- Server based



Search

Personal Preferences ^

My Profile

Access Tokens

Auto Delegation

My Notifications

Shared Notifications

My Signature

Language Preferences

View Other Accounts

Share My Account

Create Integration Key



Integration Keys can be used to enable legacy third-party applications to access Acrobat Sign data.

If your application requires an Integration Key, create one by providing a name below and selecting which permissions to grant to this application.

This Integration Key will have **permanent access** to your account until it is revoked.

Integration Name:

Enabled?	Scope	Description
<input type="checkbox"/>	user_read	View users in your account
<input type="checkbox"/>	user_write	Create or manage users within your account
<input type="checkbox"/>	user_login	Login access – providing full access to any user in your account overriding other requests
<input type="checkbox"/>	agreement_read	Access documents & data on behalf of any user in your account
<input type="checkbox"/>	agreement_write	Manage the status of documents on behalf of any user in your account
<input type="checkbox"/>	agreement_send	Send documents on behalf of any user in your account
<input type="checkbox"/>	widget_read	View web forms on behalf of any user in your account
<input type="checkbox"/>	widget_write	Create, edit or publish web forms on behalf of any user in your account
<input type="checkbox"/>	library_read	View templates and document library on behalf of any user in your account
<input type="checkbox"/>	library_write	Manage the templates and document library on behalf of any user in your account
<input type="checkbox"/>	workflow_read	View workflows on behalf of any user in your account
<input type="checkbox"/>	workflow_write	Create workflows on behalf of any user in your account
<input type="checkbox"/>	webhook_read	View webhooks on behalf of any user in your account
<input type="checkbox"/>	webhook_write	Create or edit webhooks on behalf of any user in your account
<input type="checkbox"/>	webhook_retention	Permanently delete webhooks on behalf of any user in your account
<input type="checkbox"/>	application_read	View applications.
<input type="checkbox"/>	application_write	Manage applications, includes: managing OAuth scopes, application name, display name.

Cancel

Save

REST DOCS

DEMO

Send off for agreement...



Adobe Acrobat Sign on behalf of Raymond Camden <adobesign@adobesign.com>



To: Ray Camden

Thu 9/28/2023 10:37 AM



Adobe Acrobat Sign



Raymond Camden requests your signature on
[DEMO USE ONLY] Waiver

[Review and sign](#)

After you sign **[DEMO USE ONLY] Waiver**, all parties will receive a final PDF copy by email.

Don't forward this email: If you don't want to sign, you can [delegate](#) to someone else.



Powered by
Adobe Acrobat Sign

By proceeding, you agree that this agreement may be signed using electronic or handwritten signatures.

To ensure that you continue receiving our emails, please add adobesign@adobesign.com to your address book or safe list.

[Terms of Use](#) | [Report Abuse](#)

© 2023 Adobe. All rights reserved.

[Reply](#)

[Forward](#)

THE LOOK I GIVE



♥ Fabulous RN

**WHEN I'M COMPLETELY
OVERWHELMED**

QUESTIONS?

