

We'll go through how to implement complete Drive apps. This is not an introduction to Drive apps, but rather how to build your product into Google Drive, and ensure that the experience is seamless for a user. We will also discuss how to effectively distribute your app in the Chrome Web Store. The example app built in this talk will demonstrate an example use case, but otherwise be production-ready



About Mike Procopio

[View full profile](#)

Mike is a Software Engineer for Google Drive, leveraging his passion for the developer and user experience by working on the Drive APIs. He holds a Ph.D. in CS from the University of Colorado.



About Steve Bazyl

[View full profile](#)

Steve is a Developer Advocate for Google Drive & Google Apps. He enjoys helping developers find ways to integrate their apps and bring added value to users.



Building Polished Drive Apps

How to make your apps rock

June 27, 2012 (Google I/O 2012)

Mike Procopio, Software Engineer, Google Drive SDK

Steven Bazyl, Developer Advocate, Google Drive SDK



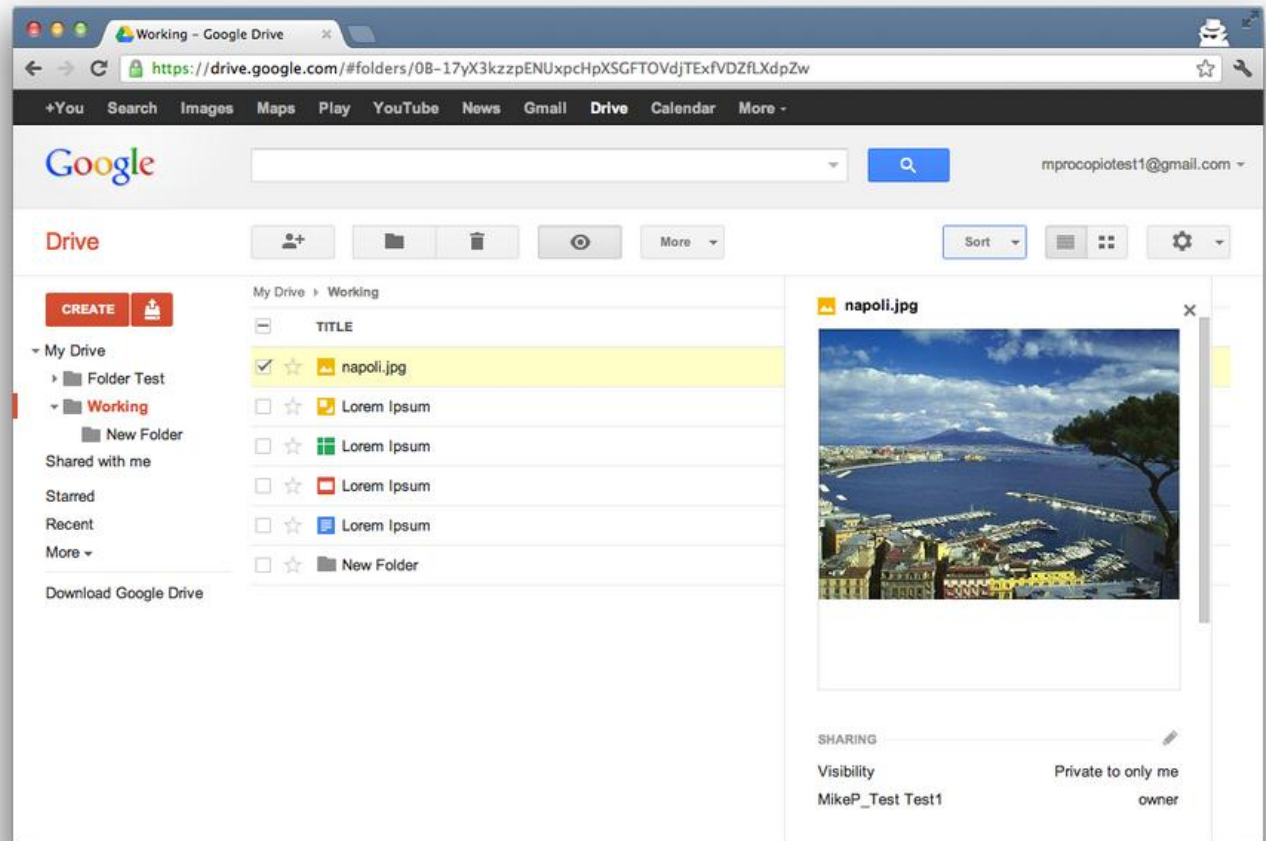
Google Drive

Store files safely in the cloud

Sharing, searching, collaboration, file revisions, OCR, organization...

Keep files in sync across devices

Access files anywhere



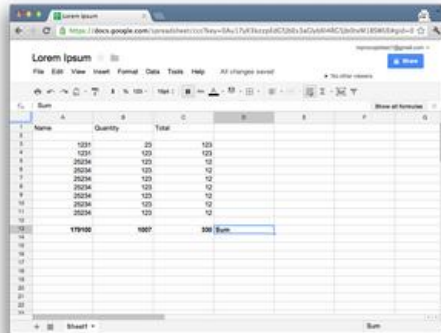
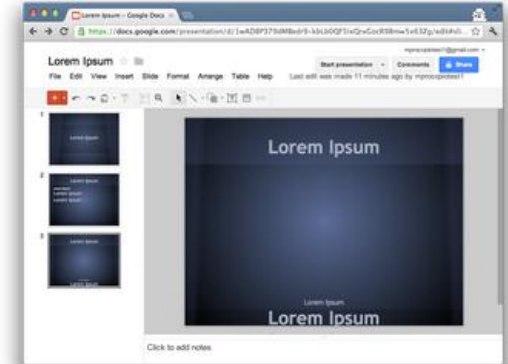
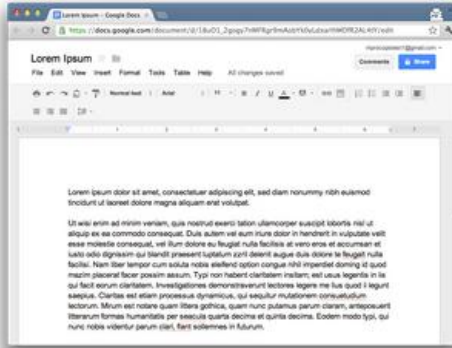
So where are we at today with Drive?

- **Millions** of users have opted in to drive.
- Access **anywhere**: on the web, on mobile devices, and using Chrome OS
- Easy-to-use, fully featured **SDK** with client library support in 8 languages
- 50 third-party Drive apps available in the Chrome Web Store



Built-in first-class, collaborative productivity apps

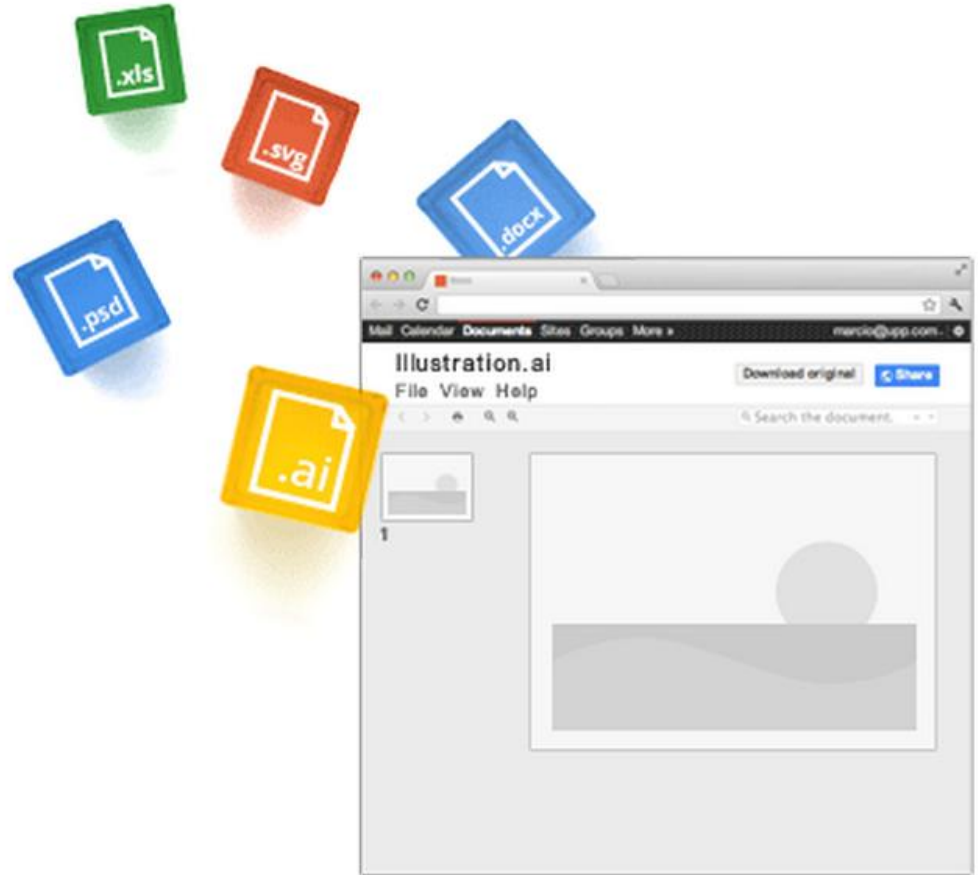
Documents, Spreadsheets, Presentations, and Drawings



Google Drive Viewer

Built-in previewer for many file types

- PDF
- Images
- Videos
- Text
- Some proprietary formats
 - Photoshop
 - Illustrator
 - Microsoft Office
 - etc.
- But...



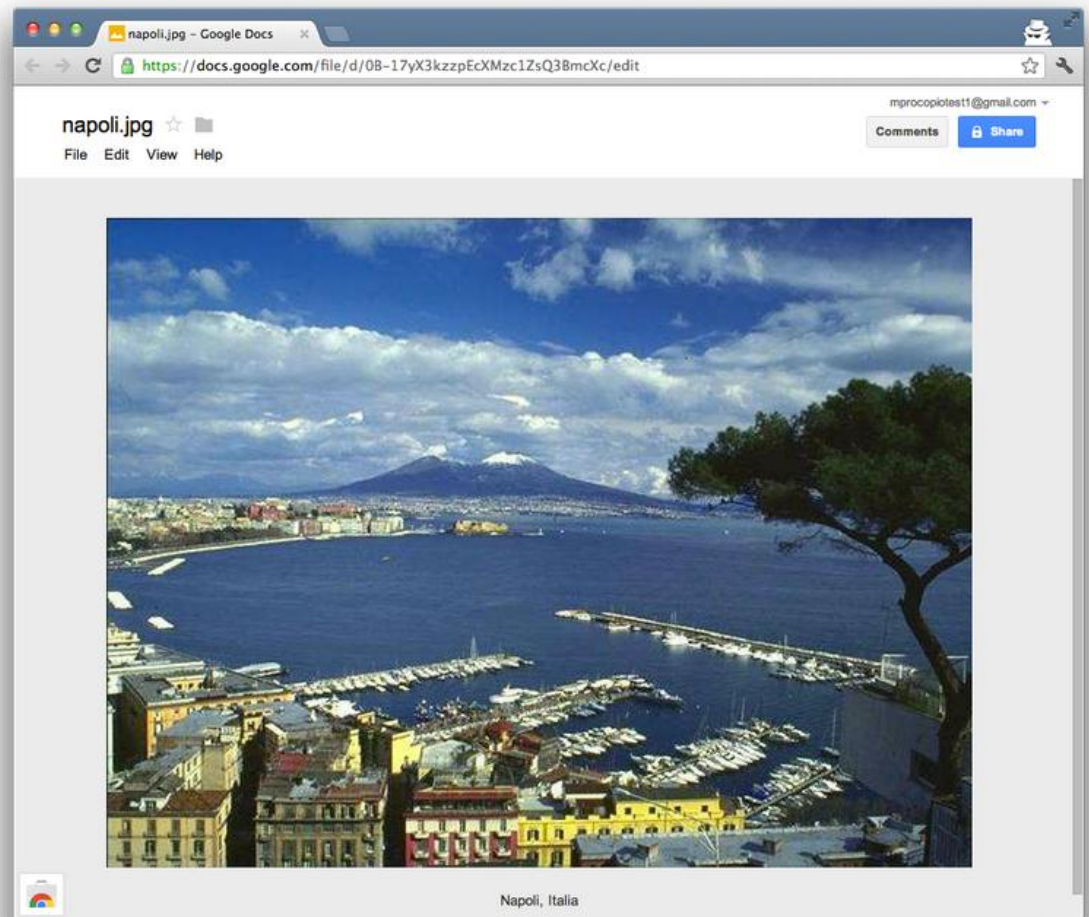
Google Drive Viewer

Read scintillating scientific publications (PDFs).



Google Drive Viewer

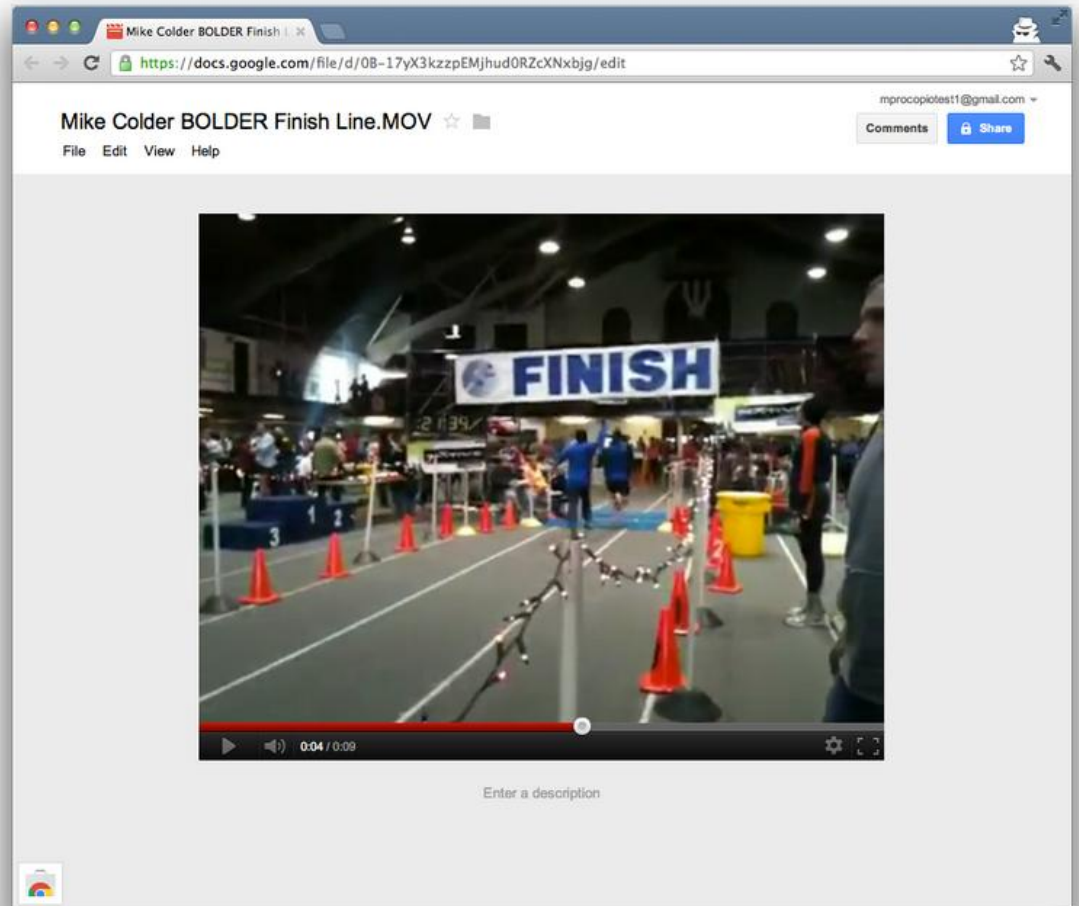
Preview photos of places you wish you were visiting on vacation.



Google Drive Viewer

Watch that video of you getting second place in that 5K over and over.

(But not because you're bitter or anything.)



Built-in Apps and File Previewer - Just a Start

As an ecosystem, we can do better for the user.



HelloFax

Do something useful with that PDF.

Fax your PDFs to all your friends for that ultimate "offline" consumption experience.

The screenshot shows the HelloFax web application in a browser window. The URL bar displays a long, unique URL. The page has a light blue header with the 'hello fax' logo. A sidebar on the left contains navigation links: 'Getting started', 'Send a fax' (highlighted), 'Sign and send', 'Request signature', 'Manage', and 'Manage your documents'. The main content area is titled 'Send a fax' and includes a welcome message for 'mprocopiotest1@gmail.com'. The workflow consists of two steps: 1. 'Add (and sign) files of any kind' with a file upload area and a 'TIP' box about adding signatures. 2. 'Enter fax number or email address' with a text input field containing '+1 303-555-1212' and a dropdown for 'United States'. There are also links for '+ Cover page' and '+ Recipient'. A checkbox for 'Send high resolution & color version of fax' is checked. A red 'Send It now' button is at the bottom. A vertical 'Feedback / Help' button is on the right edge.

Sign, edit, and fax document

https://www.hellofax.com/?is_external_download=1&external_cache_key=ExternalFile_FromUrl_7147403c1562e9f7e43206d...

hello fax

Hi, mprocopiotest1@gmail.com, welcome back!

Send a fax

1 Add (and sign) files of any kind

Drag files here ...

UPLOAD FILES More

procopio_lora2010.pdf

Edit & Sign

TIP

Add your signature, text and checkmarks (optional)

2 Enter fax number or email address

+1 303-555-1212 United States

+ Cover page + Recipient

☒ Send high resolution & color version of fax (learn more)

Send It now

Feedback / Help

Getting started

Actions

Send a fax

Sign and send

Request signature

Manage

Manage your documents

Invite a friend and you'll both get 5 free pages

INVITE A FRIEND

Need to receive faxes?

GET A FAX NUMBER TODAY

Earn bonus pages

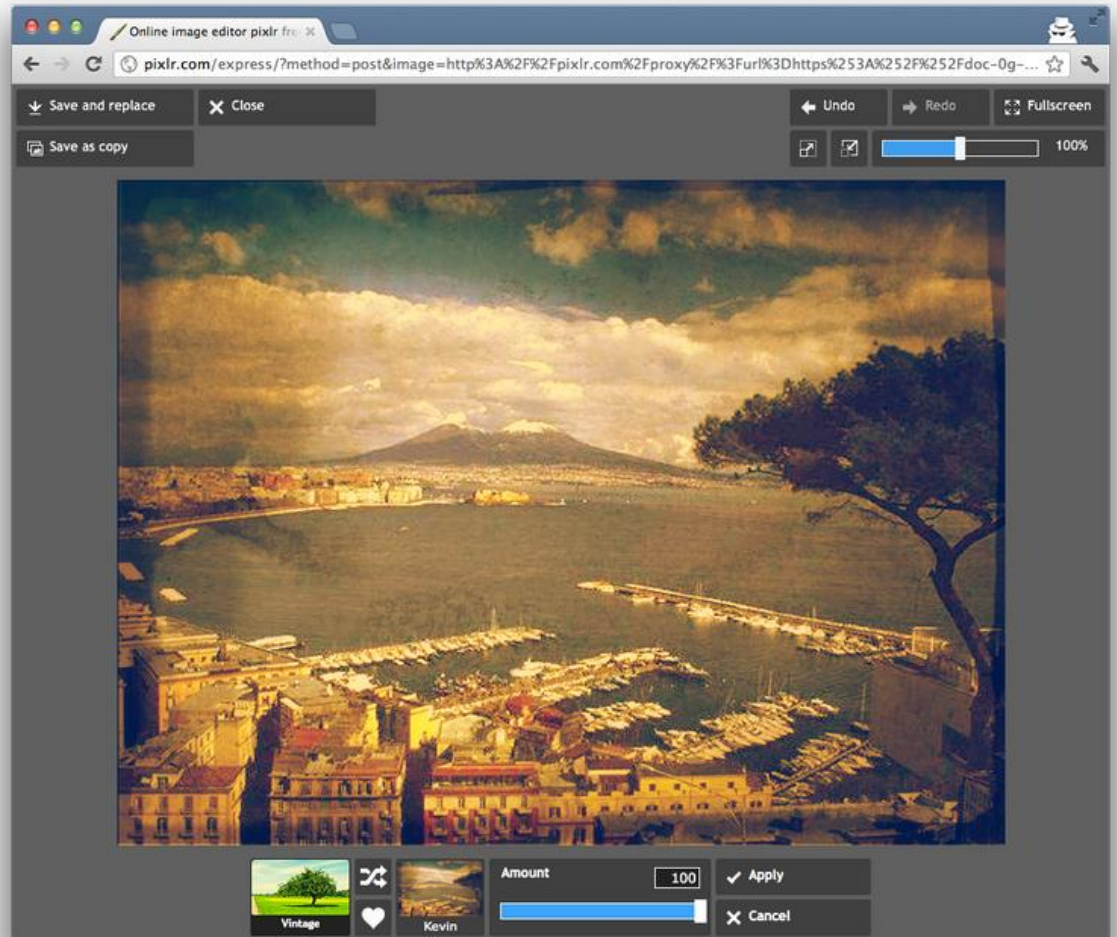
Progress 0%



Pixlr Image Editor

Give your photos that vintage look.

(And instantly boost your social networking street cred.)



Pixlr Image Editor

Give your photos that vintage look

(And instantly boost your social networking street cred.)

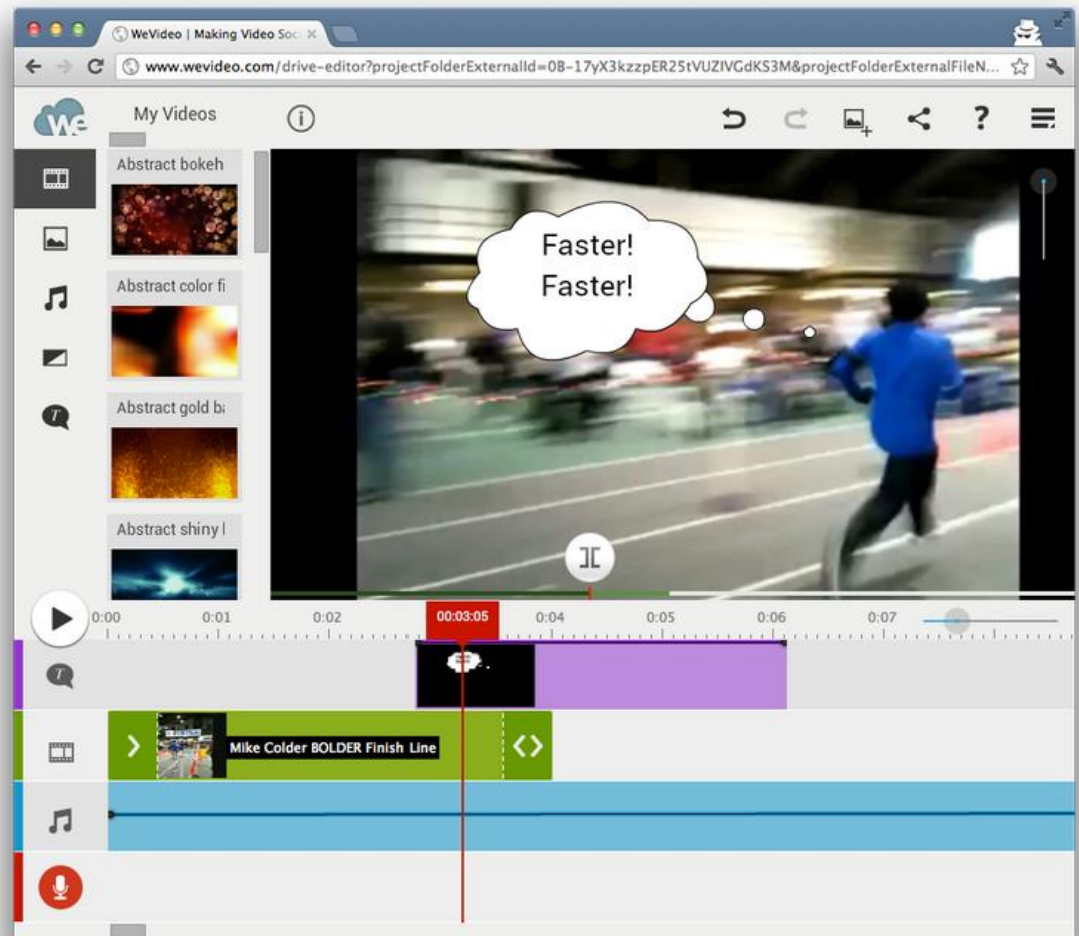
Or make lolcat memes. Your choice.



WeVideo










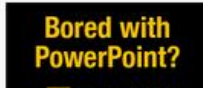






















Don't just watch video. Edit it.

(Your friends don't need to know
you only got second place...)



Apps bring life to the ecosystem

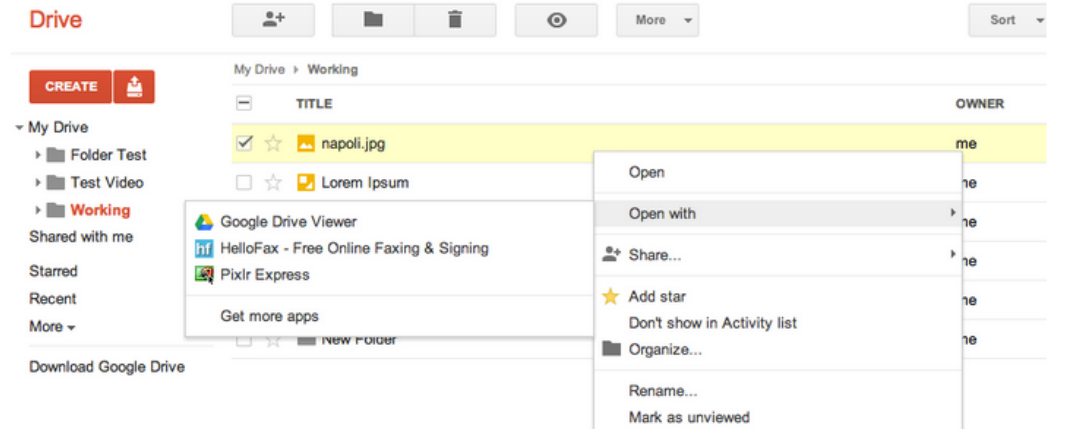
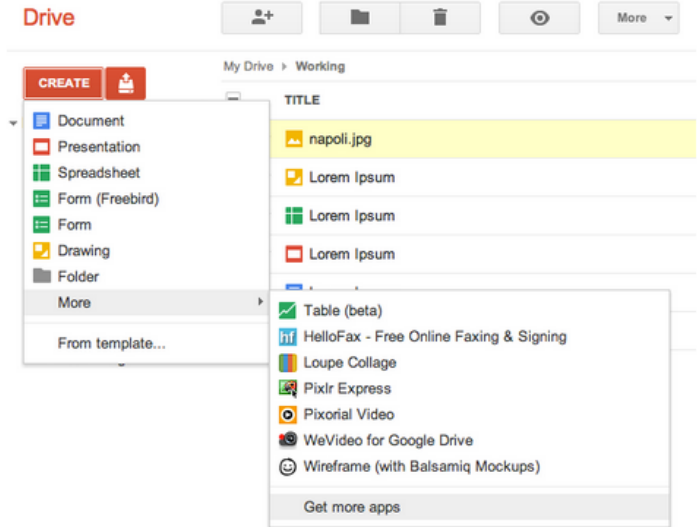
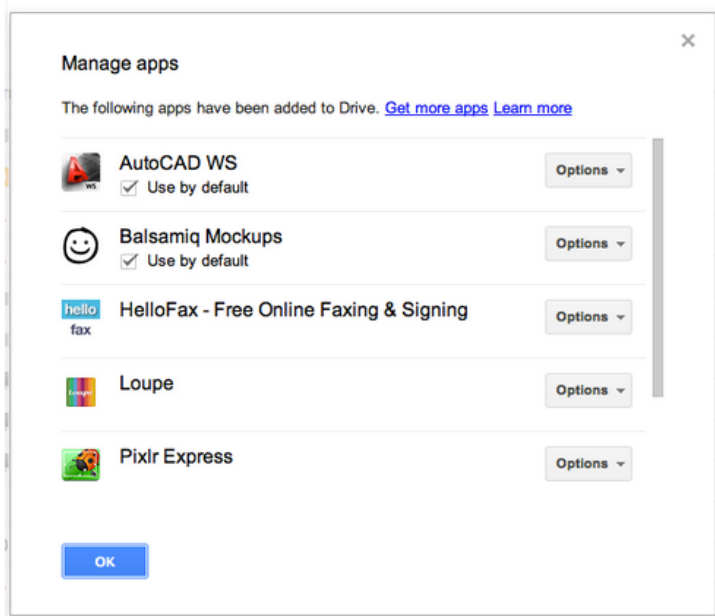
Fax | Edit | Render | Graph | Draw | Diagram | Sign | Publish | Map | Chart | Listen | Mock | Plan

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|---|---|--|---|--|--|---|--|
|  <p>AutoCAD WS use AutoCAD wherever you are ★★★★★</p> |  <p>Lucidchart: Diagramming 397,018 users</p> |  <p>Graphing Calculator by Desmos 138,340 users</p> |  <p>Pixlr Editor ★★★★★</p> |  <p>Read books Breader for Google Drive 12,055 users</p> |  <p>Aviary for Google Drive 26,871 users</p> |  <p>Pixorial Video 10,838 users</p> |  <p>Maps Jedi ★★★★★</p> |
|  <p>PicMonkey 152,452 users</p> |  <p>Sliderocket 247,869 users</p> |  <p>Loupe Shape Your Photos ★★★★★</p> |  <p>Ganttter FREE project scheduling ★★★★★</p> |  <p>Balsamiq Mockups 27,934 users</p> |  <p>DocuSign 17,978 users</p> |  <p>InstallFree Nexus with Micros... 11,948 users</p> |  <p>GeoGebra GeoGebra is free dynamic mathematics software for all levels of education that joins geometry, algebra, graphing, and calculus. + ADD TO CHROME</p> |
|  <p>Floorplanner 104,674 users</p> |  <p>WeVideo for Google Drive ★★★★★</p> |  <p>Marqueed Collect, and Discuss Images ★★★★★</p> |  <p>HelloFax - Free Online Faxing... 80,832 users</p> |  <p>InstallFree Nexus with LibreOf... ★★★★★</p> |  <p>RightSignature 3,571 users</p> |  <p>Diagramly ★★★★★</p> |  <p>DriveTunes 1,637 users</p> |
|  <p>Smartsheet Project Managem... 64,296 users</p> |  <p>Pixlr Express 88,098 users</p> |  <p>MindMeister Mind Mapping. Brainstorming. 68,248 users</p> |  <p>OAuth 2.0 Playground ★★★★★</p> |  <p>Revisu ★★★★★</p> |  <p>Lulu One-Click Publishing ★★★★★</p> |  <p>tottepost ★★★★★</p> |  <p>Lucidchart for Education 1,854 users</p> |



Integrate with the Google Drive SDK

Create | Open | Manage | Search | Share | Add Revisions



Build Awesome Apps

Vibrant and Polished

- Apps that:
 - Are secure
 - Put the user first
 - Integrate well with Drive
- Let's look at 9 things you can do to get there.





Here's how to make your app rock



UX matters

“A *foolish* consistency is the hobgoblin of little minds”

Ralph Waldo Emerson



2/3

users
struggled with
basic tasks
like renaming
files!



Source: Google Internal UX study on Drive Apps

My Doc ☆

File Edit View Insert Format Tools Table Help All changes saved

File Info

Account Info

Collaboration

Comments

Share

Navigation & File operations

Content

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Go mobile

Drive is mobile

Access anywhere. Web, phone, tablet, Chrome OS.



Web-based experience on mobile device

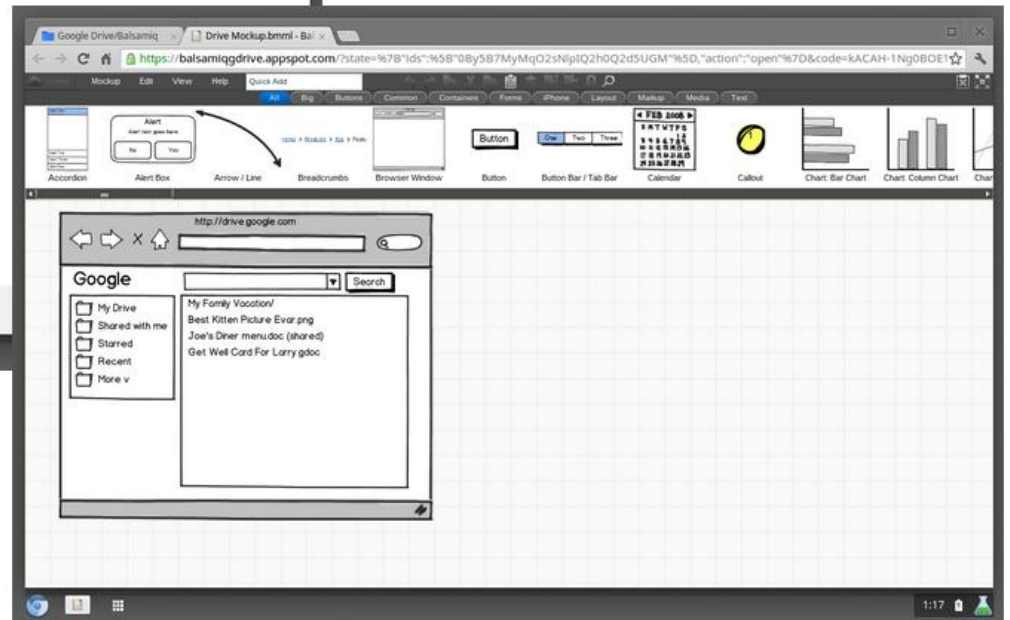
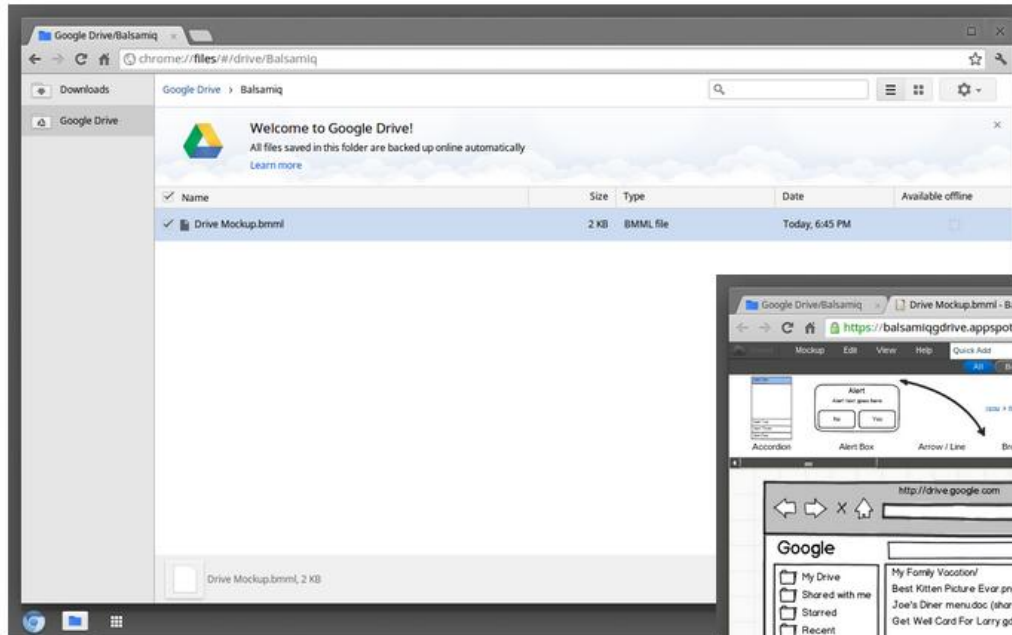


Companion Mobile Apps: Use your app anywhere

Native App experience



Full Drive App integration with **Chrome OS**





Open anywhere

Select a file



Google Docs

Upload



Select

Cancel

Picker

```
<script src="http://www.google.com/jsapi"></script>
```

HTML

```
google.setOnLoadCallback(initPicker);
google.load('picker', '1');

function initPicker() {
  ... // Library ready
}

function showPicker() {
  var picker = new google.picker.PickerBuilder()
    .addView(new google.picker.DocView())
    .setCallback(pickerCallback)
    .setAppId(YOUR_APP_ID)
    .build();
  picker.setVisible(true);
}

function pickerCallback(data) {
  if (data[google.picker.Response.ACTION] == google.picker.Action.PICKED) {
    // Do something!
  }
}
```

JS





Be secure

Scopes with the Google Drive SDK

Full, file-specific, apps, read-only

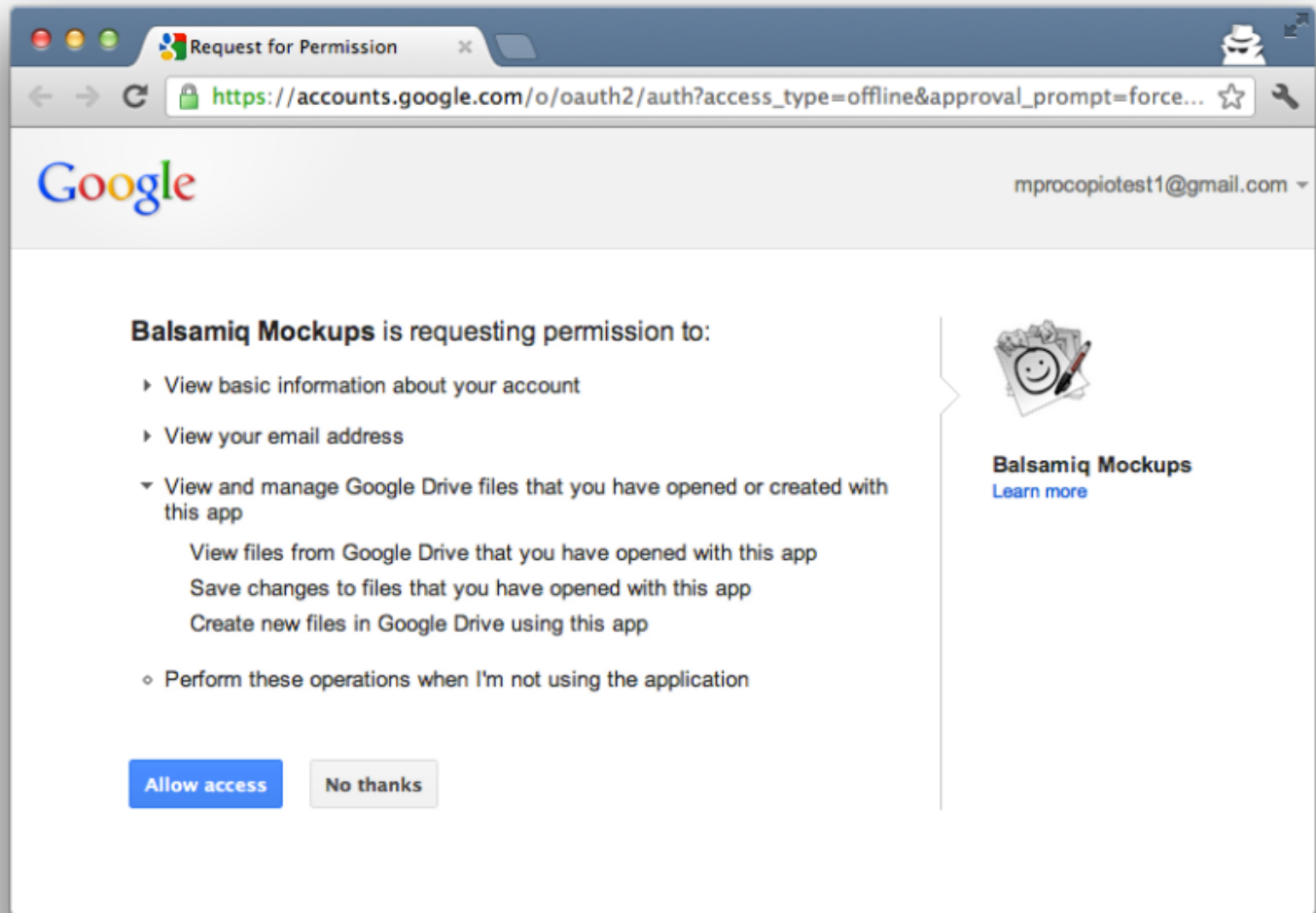
| Scope | Meaning |
|---|--|
| https://www.googleapis.com/auth/drive.file | Per-file access to files created or opened by the app |
| https://www.googleapis.com/auth/drive | Full, permissive scope to access all of a user's files. Request this scope only when it is strictly necessary. |
| https://www.googleapis.com/auth/drive.apps | Allows apps access to the list of Drive apps a user has installed. |
| https://www.googleapis.com/auth/drive.readonly | Allows read-only access to file metadata and file content |
| https://www.googleapis.com/auth/drive.readonly.metadata | Allows read-only access to file metadata, but does not allow any access to read or download file content |

Scopes with the Google Drive SDK

Narrow File-Specific Scope is best for you and your users

| Scope | Meaning |
|---|--|
| https://www.googleapis.com/auth/drive.file | Per-file access to files created or opened by the app |
| https://www.googleapis.com/auth/drive | Full, permissive scope to access all of a user's files. Request this scope only when it is strictly necessary. |
| https://www.googleapis.com/auth/drive.apps | Allows apps access to the list of Drive apps a user has installed. |
| https://www.googleapis.com/auth/drive.readonly | Allows read-only access to file metadata and file content |
| https://www.googleapis.com/auth/drive.readonly.metadata | Allows read-only access to file metadata, but does not allow any access to read or download file content |

Example Authorization Flow



New File-Specific Scope

Authorization text

Google OAuth 2.0 Playground is requesting permission to:

- ▼ View and manage Google Drive files that you have opened or created with this app

View files from Google Drive that you have opened with this app

Save changes to files that you have opened with this app

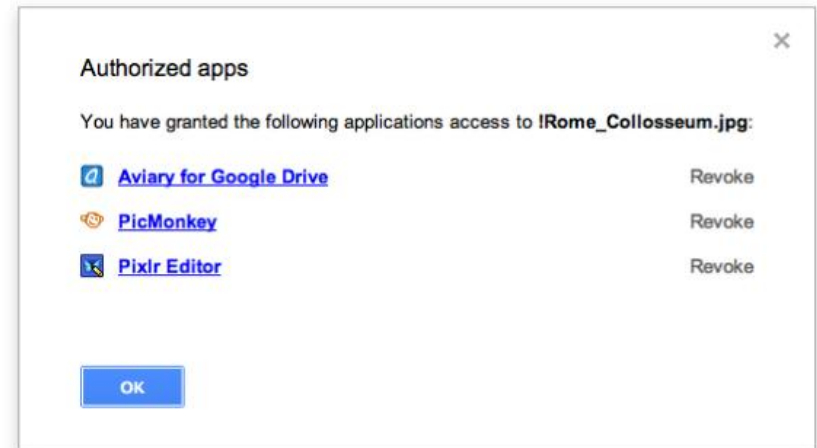
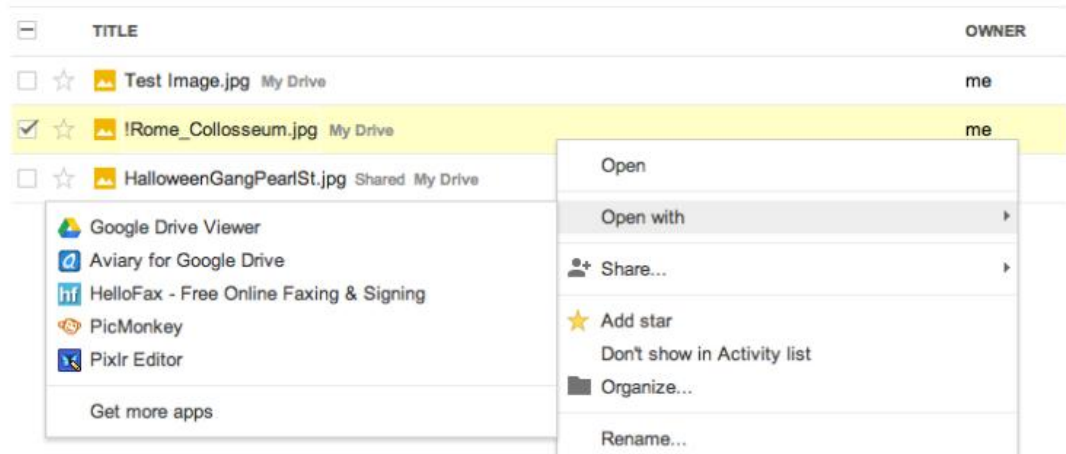
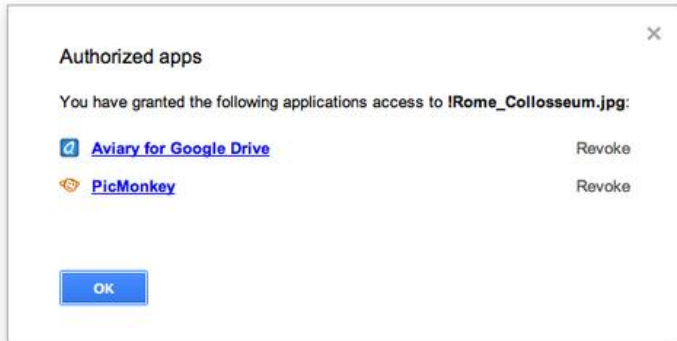
Create new files in Google Drive using this app



New File-Specific Scope - Demo



Demo (Backup)





Make sharing easy

Sharing settings

Link to share (only accessible by collaborators)

<https://docs.google.com/presentation/d/1RDZSP3ullipCqkCxEx3yNp5iCBGzb5HSrD6TlxDHaxA/edit>

Who has access

| | | |
|---|---|---------------------------|
|  | Private - Only the people listed below can access | Change... |
|  | Steven Bazyl (you) sbazyl@google.com | Is owner |

Add people:

Enter names, email addresses, or groups...

Editors will be allowed to add people and change the permissions. [\[Change\]](#)

Done

Sharing

```
<script src="https://apis.google.com/js/client.js"></script>
```

HTML

```
gapi.load('drive-share', initSharing);

function initSharing() {
  .. // Library loaded
}

function share(docId) {
  var client = new gapi.drive.share.ShareClient(YOUR_APP_ID);
  client.setItemIds([docId]);
  client.showSettingsDialog();
}
```

JS



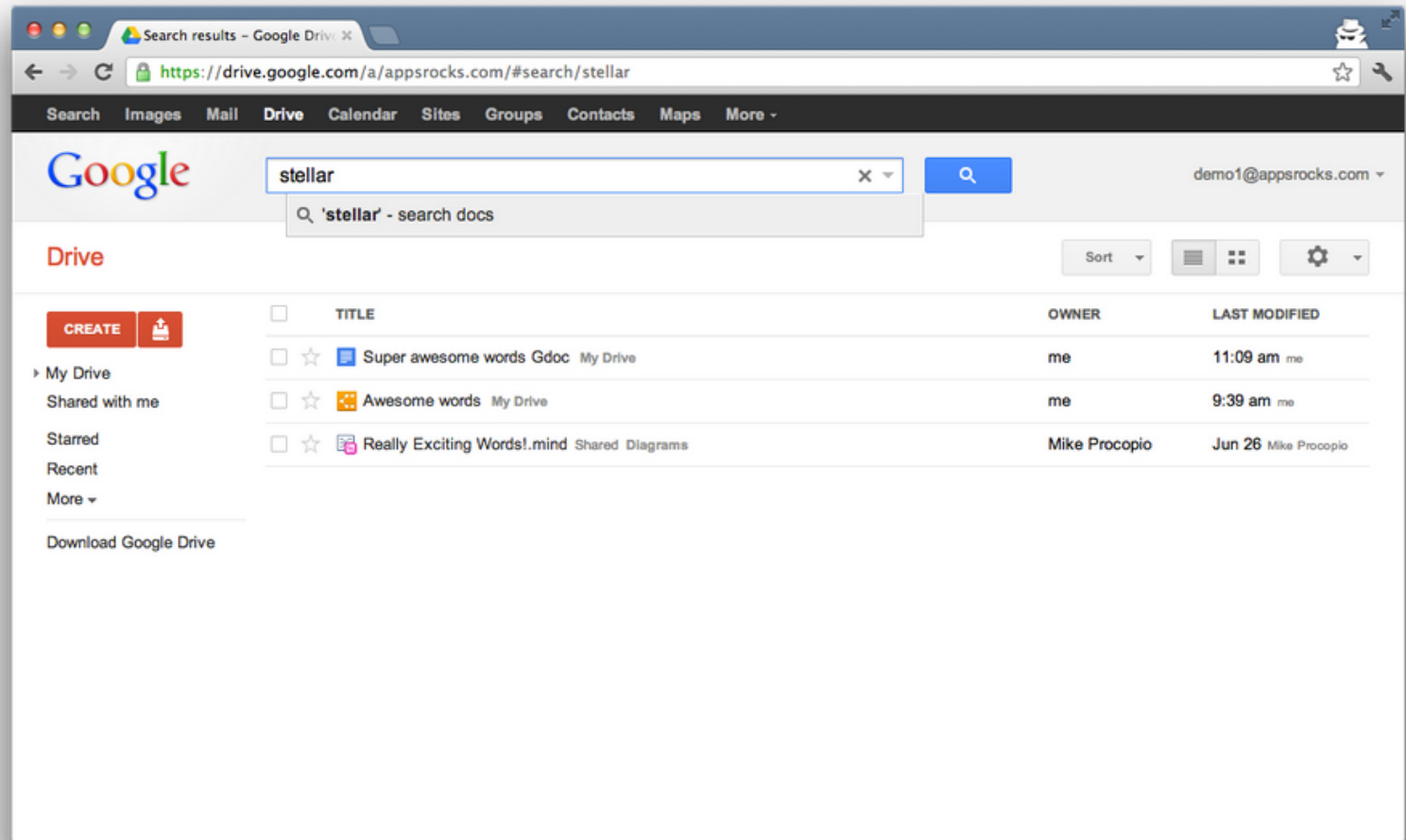
Be searchable

Setting IndexableText - Demo

Make the files created with your app discoverable with search!



Setting IndexableText - Demo (Backup)



The screenshot shows a web browser window with the Google Drive interface. The address bar displays the URL `https://drive.google.com/a/appsrocks.com/#search/stellar`. The Google logo is on the left, and the search bar contains the text "stellar". Below the search bar, a dropdown menu shows the search results: "Q 'stellar' - search docs".

The main content area displays a table of search results. The table has four columns: "TITLE", "OWNER", and "LAST MODIFIED". The first two columns are visible in the screenshot.

| TITLE | OWNER | LAST MODIFIED |
|---|---------------|----------------------|
| Super awesome words Gdoc My Drive | me | 11:09 am me |
| Awesome words My Drive | me | 9:39 am me |
| Really Exciting Words!.mind Shared Diagrams | Mike Procopio | Jun 26 Mike Procopio |



Setting IndexableText - Demo (Backup)





Save early, save often

4/5

users
assumed
their work
was auto-
saved



Source: Google Internal UX study on Drive Apps

Autosave complexities

Mutations vs. Blobs
Quota vs. Timeliness
Frequency vs. History



Autosave psuedocode

```
var autosaver = setInterval(function() {  
    if (dirty()) {  
        var newRev = timeSinceLastSave() > HOUR; // Been a while...  
        save(newRev); // New revision  
    }  
}, 30000); // Autosave every 30 seconds if dirty  
  
$('#saveButton').click(function() {  
    save(true); // Explicit save, create new revision  
});
```

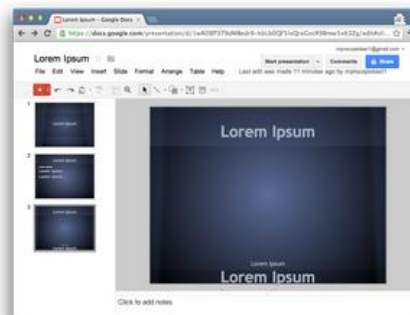
JS





Open Google Docs Types

Directly Open Google Docs with your App



Example Export Formats

| Google Doc Format | Conversions Format | Corresponding MIME type |
|----------------------|-----------------------|---|
| Documents | HTML | text/html |
| | Plain text, Rich text | text/plain, application/rtf |
| | Open Office doc | application/vnd.oasis.opendocument.text |
| | PDF | application/pdf |
| | | |
| Spreadsheets | MS Excel | application/vnd.ms-excel |
| | Open Office sheet | application/x-vnd.oasis.opendocument.spreadsheet |
| | | |
| Drawings | JPEG, PNG, SVG | image/jpeg, image/png, image/svg+xml |
| | PDF | application/pdf |
| | | |
| Presentations | MS PowerPoint | application/vnd.openxmlformats-officedocument.presentationml.presentation |
| | Open Office, PDF | application/pdf |



Setting up your app for this is simple

In APIs Console, Specify your MIME types, check the "Import" checkbox

Default MIME Types

List MIME types that your application can open. Users can make your application open files with these MIME types by default.

1. ×
2.


Import

☐ Allow users to open files that can be converted to a format that this app can open





Be discoverable

The CWS page is your chance to sell your app!

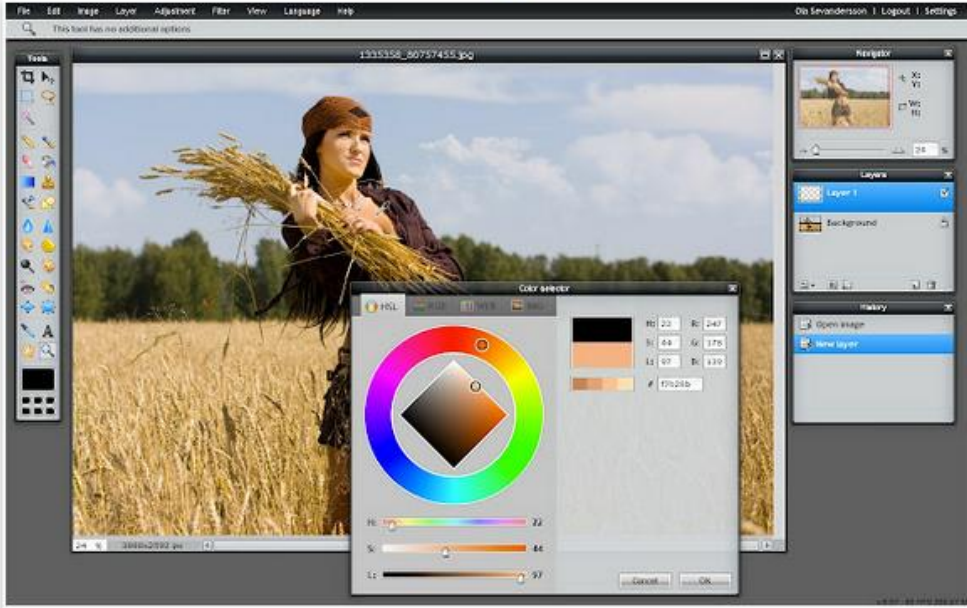


Pixlr Editor

★★★★★ (387) [Creative Tools](#)  from pixlr.com | 222,335 users

[+ ADD TO CHROME](#) 

OVERVIEW DETAILS REVIEWS RELATED **DEBUG**



The screenshot shows the Pixlr Editor web application. The main canvas displays a photograph of a woman in a field holding a bundle of wheat. A 'Color selector' dialog box is open in the foreground, featuring a color wheel and various color selection tools. The interface includes a top menu bar with options like File, Edit, Image, Layer, Adjustments, Filter, View, Language, and Help. On the right side, there are panels for Navigator, Layers, and History. The Layers panel shows 'Layer 1' and 'Background'. The History panel shows 'Open image' and 'New layer'.

Works with Google Drive

Full featured in browser photo editor!

Pixlr presents a full featured photo editor direct in your browser, no download, no wait and 100% free.

If you are used to working with Gimp, Paint shop pro or even Photoshop you will feel right at home with this online image editor. It contains lots of the features that you normally see in desktop applications but just one click away. Jump in and start using this tool, no registration required and loads in matter of seconds.

Pixlr editor is the most popular advanced photo editor online!

Some of the tools included are, red eye reduction, spot heal tool, drawing tools, clone tools, sharpen and blur tools and many more.



Viral adoption



No preview available

This item was created with **Balsamiq Mockups**, a Google Drive app.

By installing the app, you will get access to all of its features, including preview.

Install app

Download

[Get more apps](#)

Enter a description



Declaring file types

Chrome Web Store Manifest Example

```
"intents": {  
  "http://drive.google.com/intents/opendrivedoc": [  
    {  
      "type": ["text/plain",  
              "application/vnd.google.drive.ext-type.txt"],  
      "href": "https://www.yourapp.com/",  
      "title": "Open",  
      "disposition" : "window"  
    }  
  ]  
},  
...
```

HTML





Quick Recap

Recap

Nine things you can do
to make your app **rock**:

1. Be consistent (UX matters)
2. Go mobile
3. Make sharing easy
4. Be secure
5. Open anywhere
6. Be searchable
7. Save early, save often (autosave)
8. Open Google Docs types
9. Be discoverable





Opportunity

What are you going to build?

Zillions of files stored in Drive...

Files of all types

Images

Videos

PDFs

Documents, Spreadsheets, and Presentations

Text and RTF files

HTML, XML and CSS

ZIP and RAR archives

Source code: JS, Java, PHP, Python, C#

How can we bring life to these files?

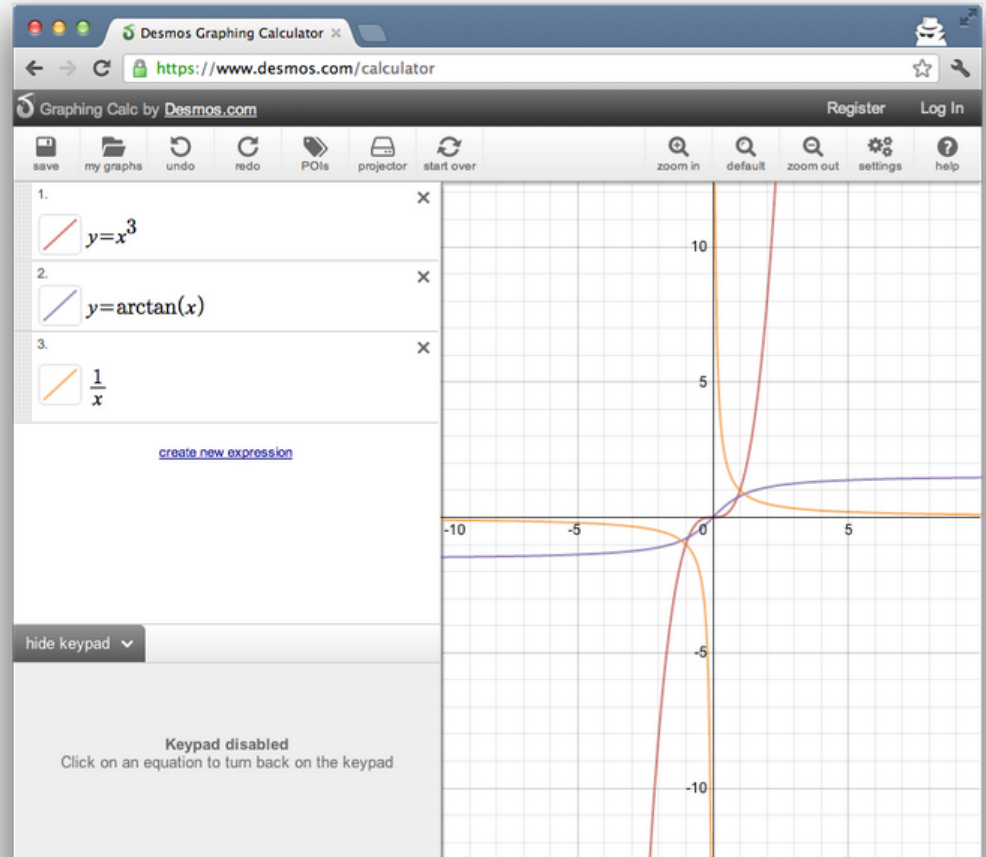
If we needed an app in the desktop days... we need it now in the cloud!



Add your own file type

Build new types of apps

- These apps are more about the capability, the experience...
- And less about the actual file (although state is stored in Drive).

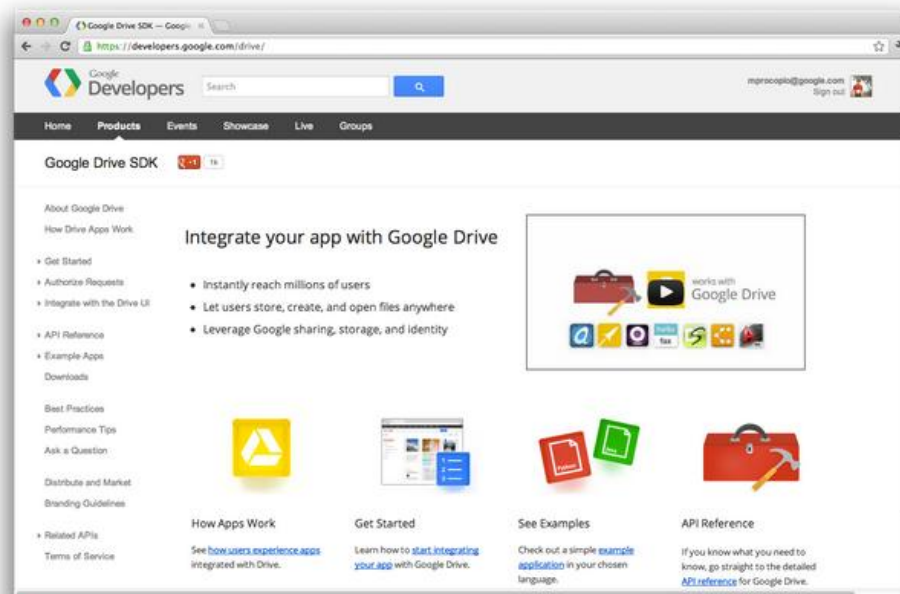


We're here for you

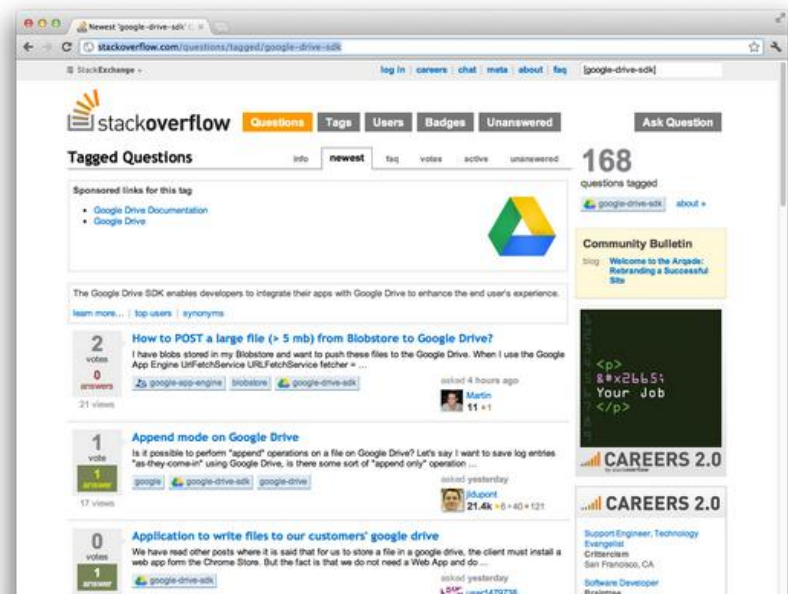
Developer advocates & engineers standing by to accept your ~~donation~~ feature request



developers.google.com/drive



[google-drive-sdk on Stack Overflow](https://stackoverflow.com/questions/tagged/google-drive-sdk)



<Thank You! />

Get started with the SDK:
developers.google.com/drive

Get help on the Stack Overflow forum:
<http://stackoverflow.com/questions/tagged/google-drive-sdk>

Discover and install apps:
https://chrome.google.com/webstore/category/collection/drive_apps

And... Come and talk to us now!

Mike Procopio
googplus.org/mike
mikeprocopio.com

Steven Bazyl
profiles.google.com/sqrrrl

