Download Panel & Content Handler

Mozilla Firefox

Table of Content

Release Notes

V 0.1	APR 08, 2016	Morpheus Chen	Create draft for download panel & content handler
	APR 10, 2016	Morpheus, Bryant Mao	Create download flow chart
	APR 13, 2016	Morpheus, Bryant	Create hover flow and download icon on toolbar flow
V 0.2	APR 16, 2016	Morpheus, Bryant	Update hover flow and add malware, uncommon and unwated
	APR 20, 2016	Morpheus, Bryant	Add flow for content handler
	APR 26, 2016	Morpheus, Bryant	Update flow for hover state and content handler
V 0.3	APR 28, 2016	Morpheus, Bryant	Update grouped notifications, clear list, and hover state.
	APR 30, 2016	Stephen Horlander, Morpheus, Bryant	Blend in Stephen's previous proposals about download panel
V 0.4	MAY 06, 2016	Sevaan Franks, Morpheus, Bryant	Include all detailed spec from Sevaan about malware
V 0.8	MAY 13, 2016	Morpheus, Bryant	Update badge design, right click and content handler
V 0.9	MAY 16, 2016	Morpheus, Bryant	Update handler locations and split to file and protocol handlers
V 1.0	MAY 25, 2016	Morpheus, Bryant	Add flow of removing file/protocol type from handler
			Add flow of opening default/non-default protocol link
			Update current/redesigned content handling flow chart
			Add project briefing
V 1.1	JUN 23, 2016	Morpheus, Bryant	Put "pause" feature back to contextual menu
			Edit native app for protocol

Release Notes

V 1.2   JUL 07, 2016   Morpheus, Bryant

Update copy strings, find more details here: https://goo.gl/Iixc90

Update 5.4.2 for unknown size download
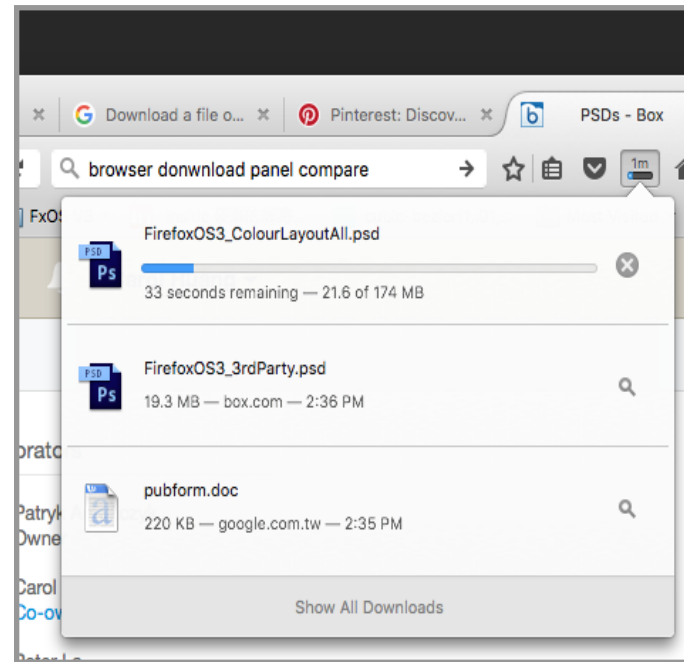
Create 5.8 Duplicate downloads

Remove all "Add-on" in file handler section

Update 6.5 for "Always Ask" and Edit for OS default application

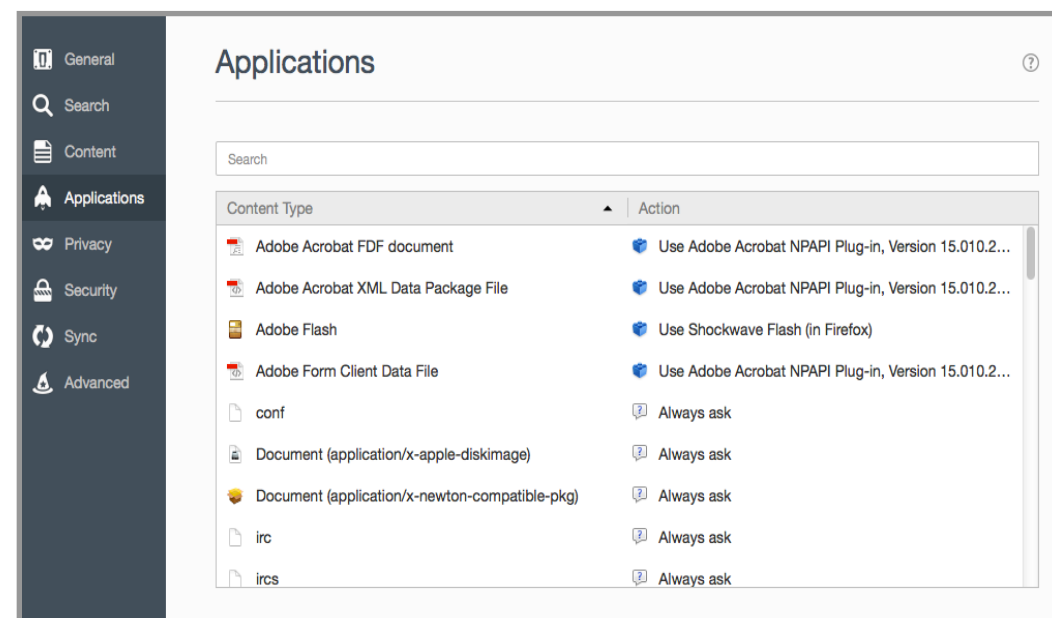Create 6.6 for special cases, including web feed, podcast, etc

OVERVIEW

Download panel

The section includes the UX details for download icon on toolbar, download panel and all download status. The design principle is to provide the most important information and useful actions for entire download flow.

Applications

The section includes the UX details for file handlers, protocol handlers and advanced settings. Content handler provides specific configurations for user to control the default settings for different files and protocols.
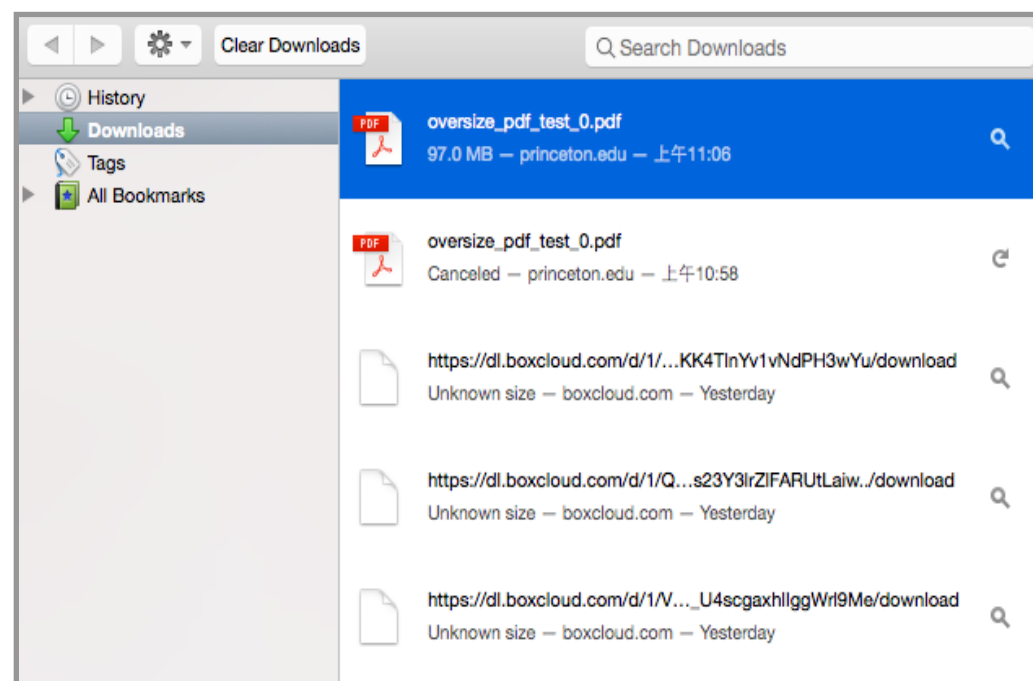
Download library *(Out of scope)*

The section contains the UX details for download manager. Download manager is another space to provide user not only entire download history but also more actions than download panel.

Note: it is planned to blend into activity stream

Project Briefing

Streamline the experience of utilizing the web content,

but do not lose the flexibility Firefox has by keeping advanced options in context.

OVERALL
- *Access to content as fast as possible*
- *Raise the awareness of overall content handling process*
- *Do what the web do best and handover tasks to OS if it can do better*
- *Information and actions should be delivered contextually*
- *Make the default action easy, the advanced powerful*

FILE
- *Preview the file in the browser as long as we can. otherwise download it directly*
- *Make concurrent downloads in summary more visible*
- *Allow users to use different handlers to render files on browser*

PROTOCOL
- *Only request users' attention if there is no available handler to open the protocol*
- *Make handler of preference more visible and understandable*
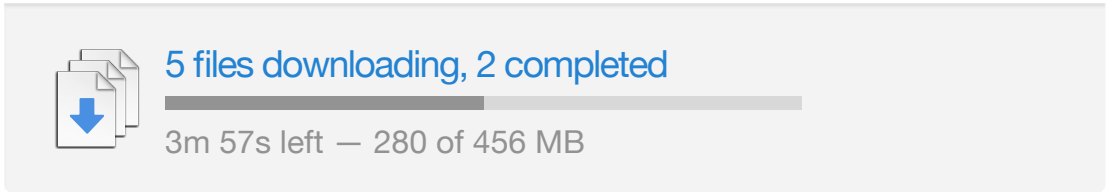- *Allow users to set applications as specified handler in one click*
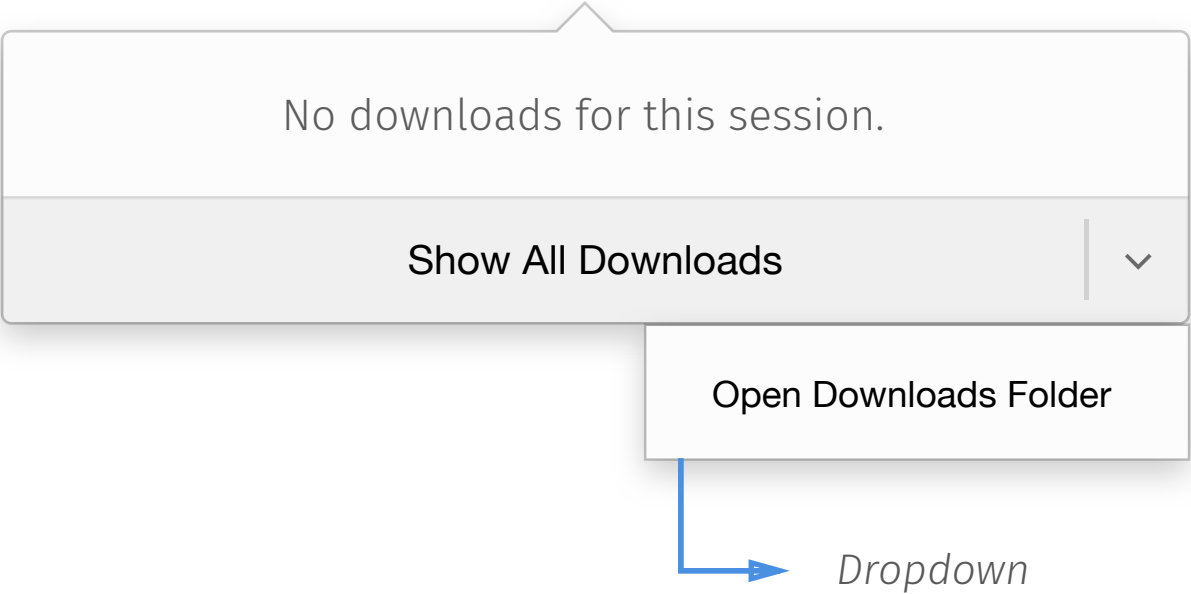
Term Specification

Notification

Social-tv-design-for-distributed.pdf
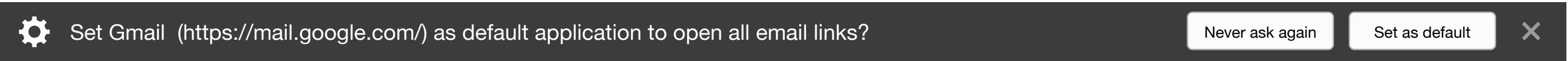Starting…
✕

Downloand Panel

No downloads for this session.

Show All Downloads ⌄

Open Downloads Folder

Dropdown

Download Summary

5 files downloading, 2 completed

3m 57s left — 280 of 456 MB

Handler

Protocol ▼	Default Action
mailto	Open with Gmail ▼
irc	Open with Mitbit ▼
webcal	Open with 30 boxes ▼

→ *Default Handler*

Notification Bar

⚙ Set Gmail (https://mail.google.com/) as default application to open all email links?   Never ask again   Set as default   ✕

Term Specification

Add-on

Add-ons are installable enhancements to Firefox browser. Add-ons allow the user to add or augment application features, use themes to their liking, and handle new types of content. It consists of Extension, Plug-in , Themes and Language Pack
- Wikipedia

Plug-in

Render web contents that the program cannot natively render.

Extension

Modify the behavior of existing features or add new features. The feature could be something in the user interface or a functional feature that manifests itself when a certain action is performed.

Themes

Strictly modify certain elements of the user interface.

Language Pack

CONTENT HANDLER

Current Content Handling Flow

Web link →

Does user specify the default action to the content type?

Y → **What the default action is?**

- **Specified Handler** → **Open with specified handler**

- **Save the File** → **Does user specify the default download location?**
  - **Y** → **Save the file to default location**
  - **N** → **Popup "save to" dialog for user to specify save location**

- **Always ask** → **What kind of the content is?**
  - **File** → **Popup "save/open with" dialog for user**
  - **Protocol** → **Popup "Launch application" dialog for user**

N → **Is the content can be preview in firefox?**
  - **N** → **Preview the content in Firefox**

Redesigned Content Handling Flow

Web link →

Does user specify the default action to the content type?

Y → What the default action is?

- **Specified Handler** → Open with specified handler

- **Save the File** → Does user specify the default download location?
  - **Y** → Save the file to default location
  - **N** → Popup "save to" dialog from OS for user to specify save location

- **Always ask** → What kind of the content is?
  - **File**
  - **Protocol** → Can the protocol be opened via native app?
    - **Y** → Popup browser dialogue for user to allow default native application to open it
    - **N** → Popup OS dialogue for user choose native application to open it

N → Is the content can be preview in firefox?
- **Y** → Preview the content in Firefox

Handling Options in Handler (Application)

	File	Protocol
Current	• Preview in Firefox	
	• Always ask	• Always ask
	• Save File	
	• Use other (Native app)	• Use other (Native app)
	• Web app	• Web app
	• Add-ons	• Add-ons
	• Native app	• Native app
		• Application Details
Redesigned	• Web app/plug-in/extension	• Web app/plug-in/extension
	• Preview in Firefox	• Native app
	• Download file	• Always ask

Action + **Application**

Mixing actions and application which confuses user

Application

Highlight applications as main options to open file/protocol

Handlers in Preferences

Applications ⑦

File Handler

Choose how Firefox handles the files you access from the Web.

Search by file type or application

File Type	Default Action	
📄 pdf	🦊 Preview with Firefox	▼

Protocol Handler

Choose what happens when you select a link that contains a Web protocol (for actions like sending email or creating a calendar item).

Search any protocol or application

Type	Default Action	
📄 mailto	Ⓜ Open with Gmail	▼
📄 irc	🦎 Open with Mibbit	▼
📄 webcal	30 Open with 30 boxes	▼

Sidebar navigation: General, Search, Content, Applications, Privacy, Security, Sync, Advanced

Handler location might be changed as Preferences is currently under redesigning

File Handler

File Handler

Choose how Firefox handles the files you access from the Web.

Search by file type or application

File Type	Default Action
📄 pdf	Preview in PDF viewer ▼

Preview in PDF viewer ⬤

All installed Plug-in/Extension which support to preview this type of files will be listed under the default action list

Preview in Firefox ⬤

If the file type is originally supported by Firefox browser, it will also display as an option.

Download file ⬤

User can choose to directly save the file

* PDF file will be the only file type which is defined as default item in file handler.

Register Plug-in/Extension as File Handler

Install Plug-in/Extension which support to open a certain type of file

Register the "File type" in file handler, and add the installed Plug-in/Extension as an option beneath the last added one to open the file

Remove File Handler

Original Option lists

🔴	Preview in PDF viewer
🦊	Preview in firefox
⬇	Download file

Get Add-ons
Extensions
Appearance
Plugins

⚙️▾ Search all add-ons

PDF Viewer
Uses HTML5 to display PDF files directly in Firefox. More
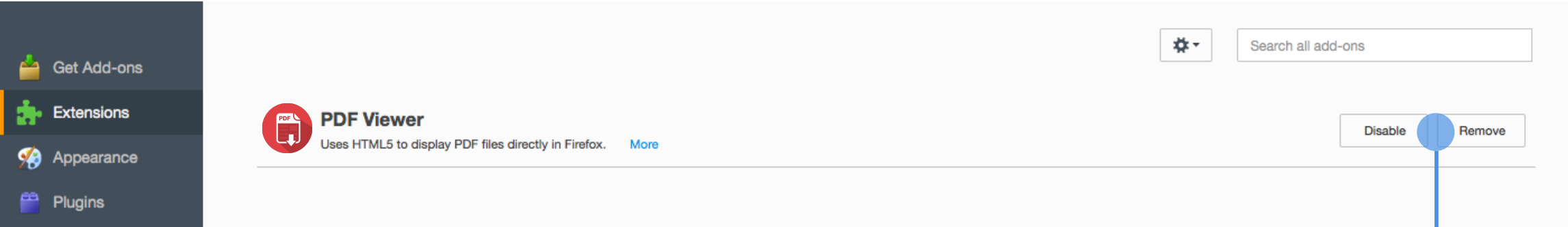
Disable Remove

Disable

1. If users disable the Plug-in/Extension, disable the option from the list and set following one as default action.

2. If users enable it again, enable the Plug-in back in the list and set it as default.

Remove

If users remove the plug-in/Extension, remove the option from the list and set following one as default action

Disable PDF viewer

🦊	Preview in firefox
🔴	Preview in PDF viewer
⬇	Download file

File Type	Default Action	
📄 pdf	🦊 Preview in Firefox	▼

Remove PDF viewer

🦊	Preview in firefox
⬇	Download file

Protocol Handler

Protocol Handler

Choose what happens when you select a link that contains a Web protocol (for actions like sending email or creating a calendar item).

Search any protocol or application

Type	Default Action
📄 mailto	❓ Always Ask ▼
📄 webcal	❓ Alwyas ask ⚪
📄 irc	M Open with Gmail ⊗
📄 ircs	Y! Open with Yahoo! Mail ✕
📶 web feed	Ⓐ Open with Mail (default) ✏️

Web app which added by users to open this type of protocols will be all listed under the default action list

User can remove a certain Web app from the list, please find "Remove protocol" section for more information.

User can change default OS application to open protocols

User can choose to directly open the protocol with default OS application.

Default protocol type

1. mailto
2. webcal
3. irc
4. ircs
5. web feed
6. video podcast
7. podcast

Option list

1. Gmail/Yahoo mail
2. 30 boxes
3. Mibbit
4. Mibbit
5. Add live bookmark in Firefox
6. Add live bookmark in Firefox
7. Add live bookmark in Firefox

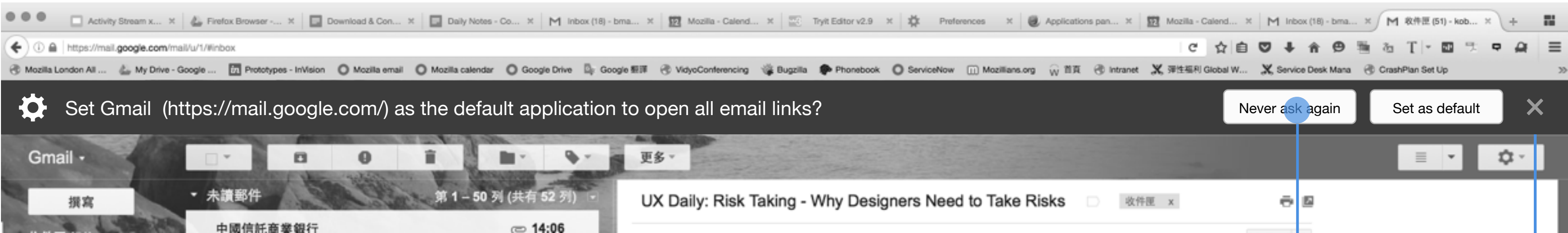| Ⓐ Choose default OS application |
|---|

Note

Display this option when there isn't OS defaut application for the protocol type
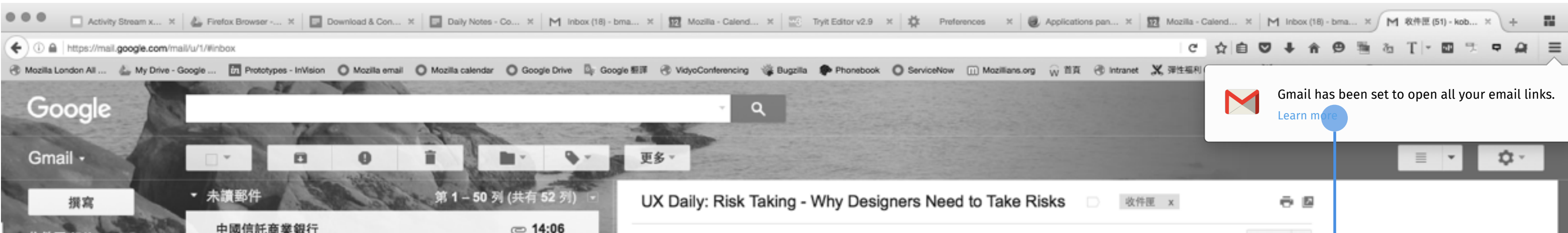
Register Web App as Protocol/Mime Type Handler

When users visit a web app that can handle certain types of protocol (and it's not in the default option list), pop out notification bar for user to add application as default handler to open the protocol.

Dismiss the notification bar and do not show it again
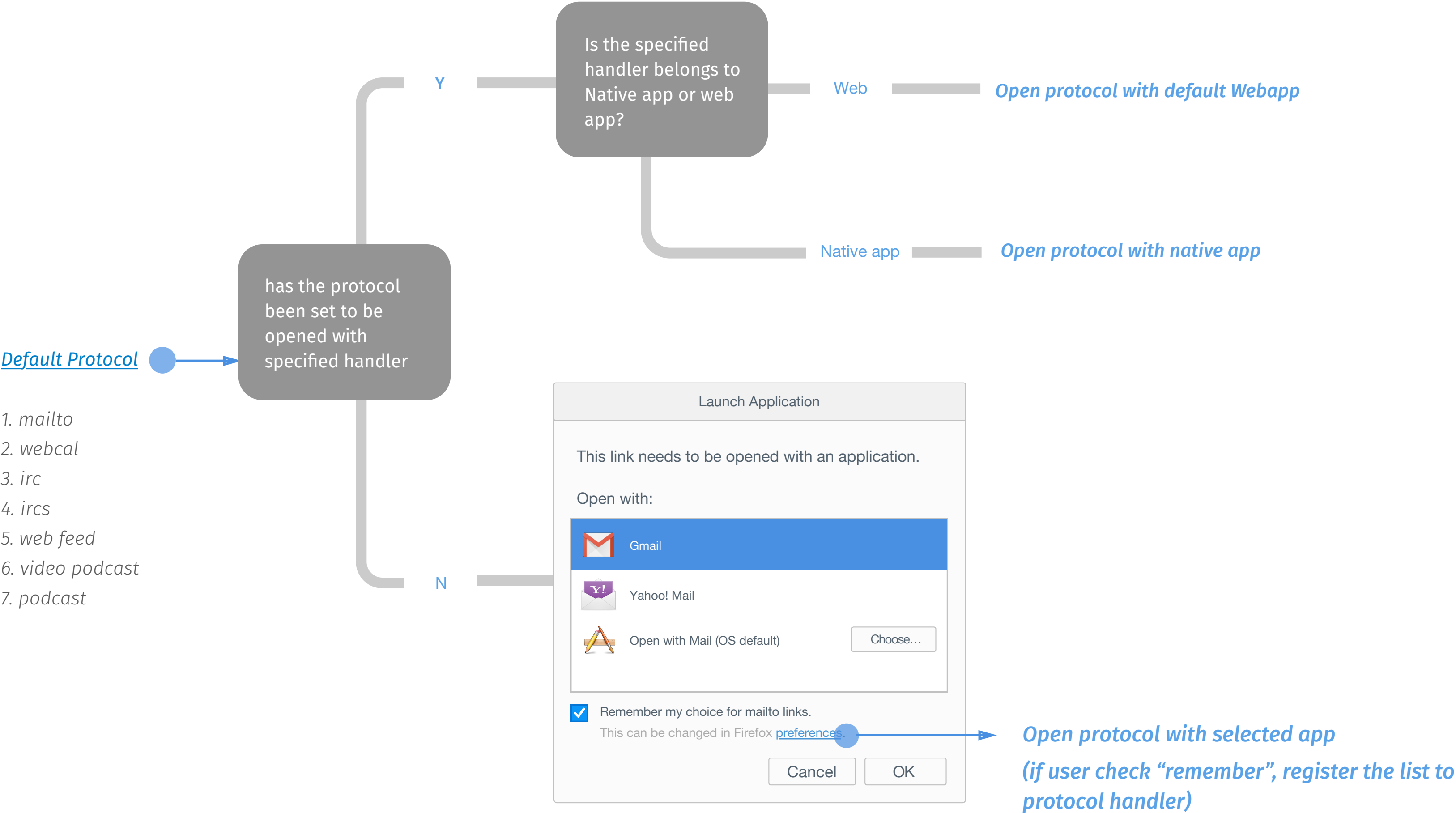
Dismiss the bar

Prompt a notification to inform users. The notification will be dismissed after 5 seconds if there is no any further action.
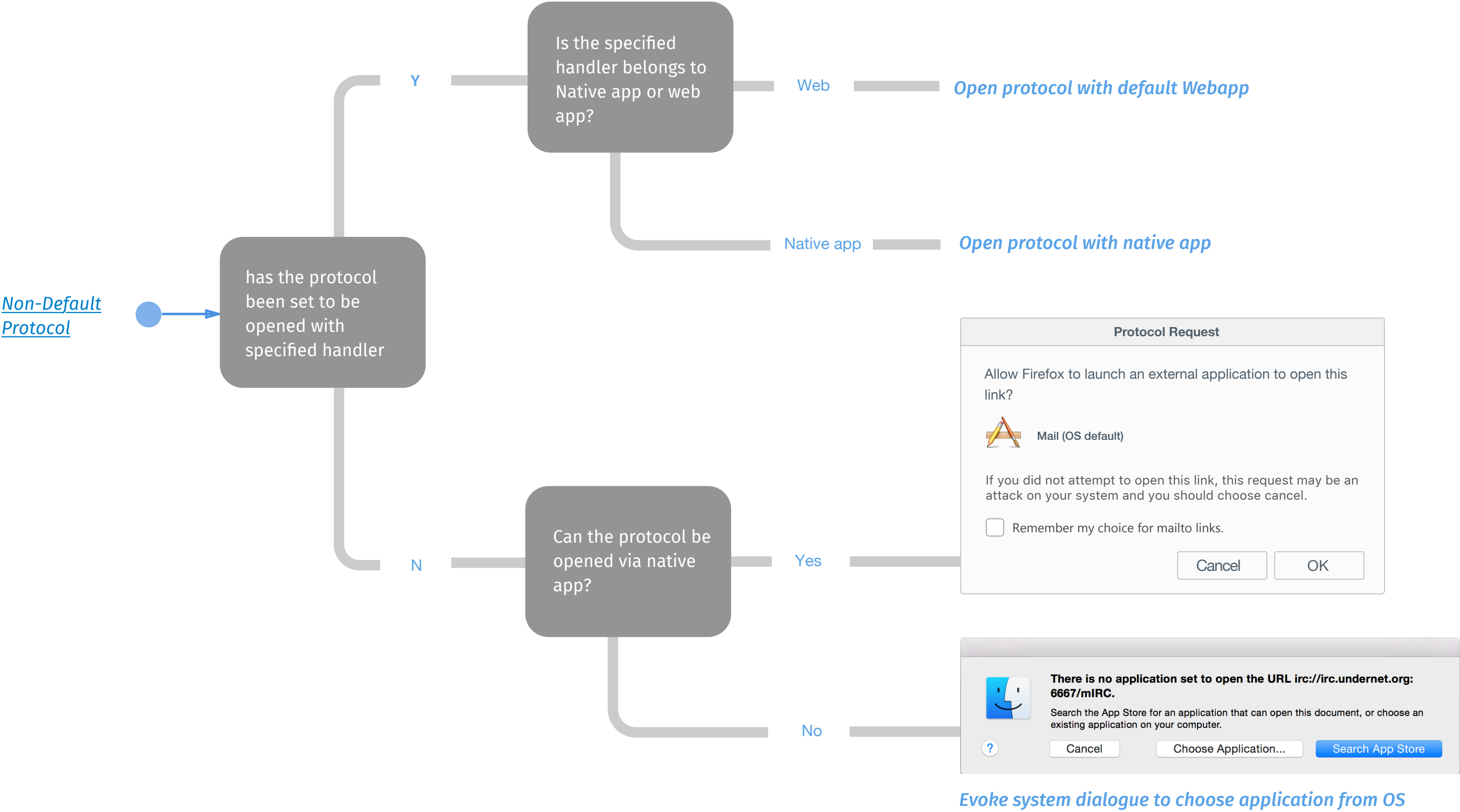

Open a new tab and link the page to protocol handler in Settings

Open Default Protocol

Is the specified handler belongs to Native app or web app?

Y

Web ——— *Open protocol with default Webapp*

Native app ——— *Open protocol with native app*

has the protocol been set to be opened with specified handler

Default Protocol ●→

1. mailto
2. webcal
3. irc
4. ircs
5. web feed
6. video podcast
7. podcast

N

Launch Application

This link needs to be opened with an application.

Open with:

	Gmail
	Yahoo! Mail
	Open with Mail (OS default) [Choose…]

☑ Remember my choice for mailto links.
This can be changed in Firefox preferences.

[Cancel] [OK]

Open protocol with selected app

(if user check "remember", register the list to protocol handler)

Open Non-default Protocol

Non-Default Protocol

has the protocol been set to be opened with specified handler

Y

Is the specified handler belongs to Native app or web app?

Web → **Open protocol with default Webapp**

Native app → **Open protocol with native app**

N

Can the protocol be opened via native app?

Yes →

Protocol Request

Allow Firefox to launch an external application to open this link?

Mail (OS default)

If you did not attempt to open this link, this request may be an attack on your system and you should choose cancel.

☐ Remember my choice for mailto links.

Cancel   OK

No →

There is no application set to open the URL irc://irc.undernet.org: 6667/mIRC.

Search the App Store for an application that can open this document, or choose an existing application on your computer.

?   Cancel   Choose Application...   Search App Store

Evoke system dialogue to choose application from OS

Remove Protocol Handler

Protocol Type ▼	Default Action
📄 mailto	Ⓜ Open with Gmail ▼
📄 irc	❓ Always Ask
📄 webcal	Ⓜ Open with Gmail ✕
	Ⓨ Open with Yahoo! Mail ✕
	Ⓐ Open with Mail (default) ✎

When user removed the default web app, substitude the following web app as default option

Protocol Type ▼	Default Action
📄 mailto	Ⓨ Open with Gmail ▼
📄 irc	❓ Always Ask ✕
📄 webcal	Ⓨ Open with Yahoo! Mail ✕
	Ⓐ Open with Mail (default) ✎

Protocol Type ▼	Default Action
📄 mailto	Ⓐ Open with Mail (default) ▼
📄 irc	❓ Always Ask ✕
📄 webcal	Ⓐ Open with Mail (default) ✎

Feed and Podcast

Protocol Handler

Choose what happens when you select a link that contains a Web protocol (for actions like sending email or creating a calendar item).

Search any protocol or application

Type	Default Action
📡 web feed	❓ Always Ask ▼
📡 video podcast	
📡 podcast	

❓ Alwyas ask ⚪

🦊 Preview in Firefox ⚪

📡 Add Live Bookmarks in Firefox ⚪

Y! Open with My Yahoo! ✕

🅰 Open with Safari (default) ✏

User can choose applications from the dialogue to handle the feed/ padcast link

User can open a new tab to render all the content from the feed/ padcast link

User can create a bookmark folder to recieve live content from the feed/padcast link