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

OVERVIEW
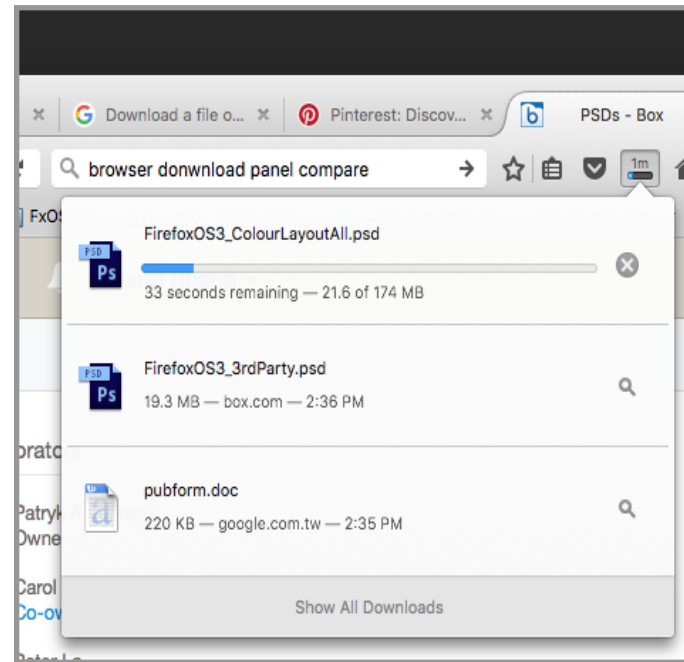
Download panel

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.
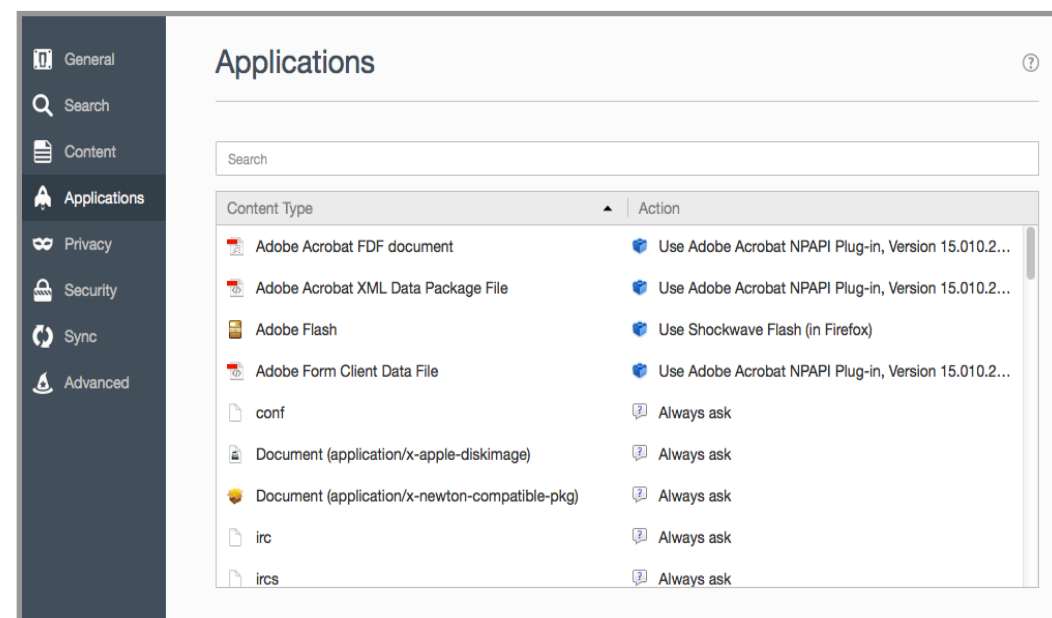
Applications

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.
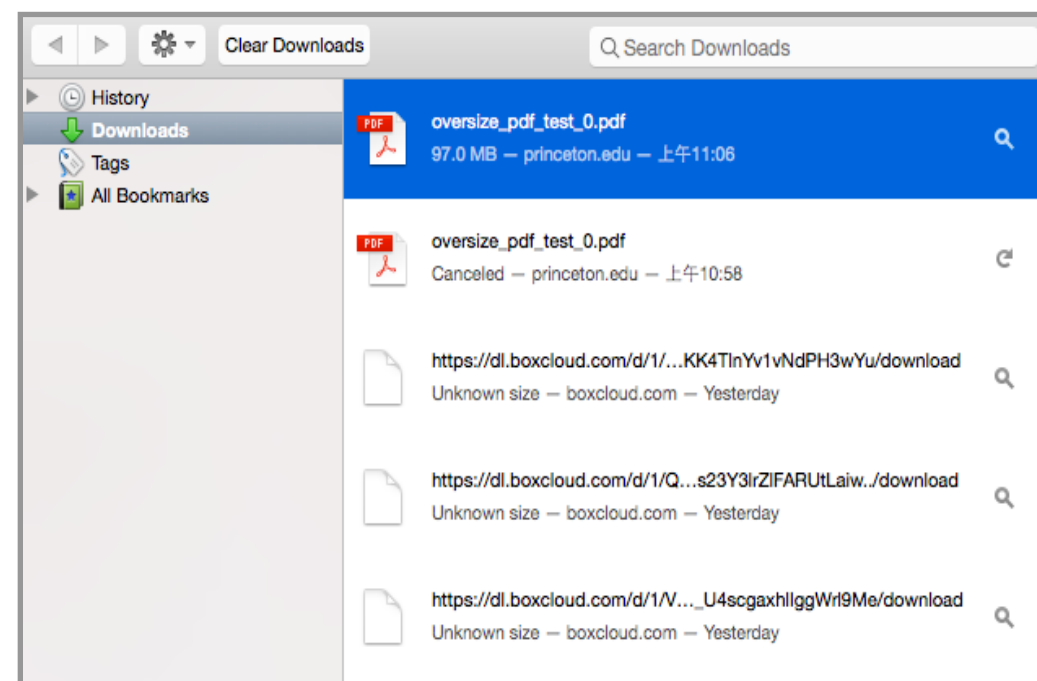
Download library *(Out of scope)*

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 handing 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*
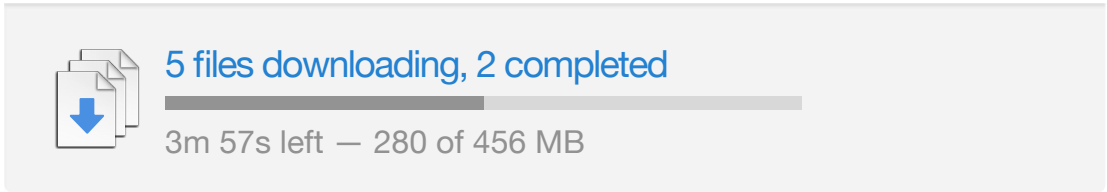- *Allow users to set applications as specified handler in one click*
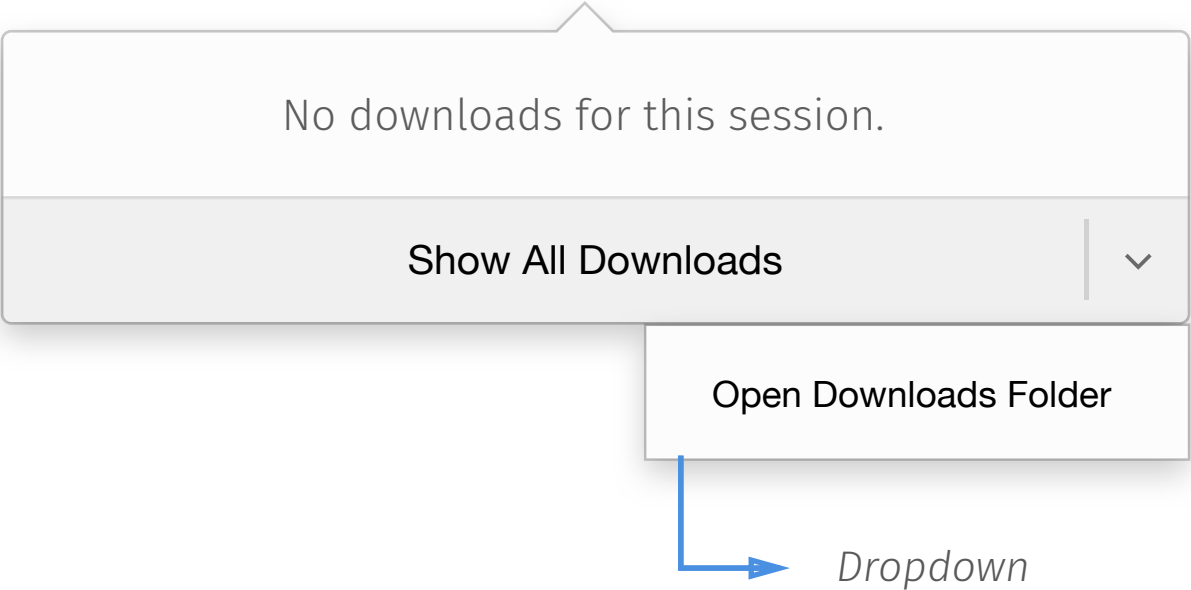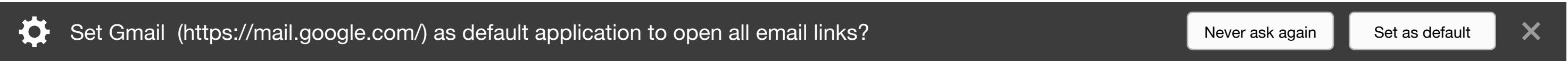
Term Specification

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	M Open with Gmail ▼
irc	Open with Mitbit ▼
webcal	30 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   ✕

CONTENT HANDLER

Current Content Handling Flow

Web link →

Does user specify the default action to the content type?

Y → What the default action is?

N → Is the content can be preview in firefox?

What the default action is?
- **Specified Handler** → Open with specified handler
- **Save the File** → Does user specify the default download location?
- **Always ask** → What kind of the content is?

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

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

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?**

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

What the default action is?
- **Specified Handler** → Open with specified handler
- **Save the File** → **Does user specify the default download location?**

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

Is the content can be preview in Firefox?
- **N** → **What kind of the content is?**
- **Y** → Preview the content in Firefox

What kind of the content is?
- **File** → Does user specify the default download location?
- **Protocol** → Popup "Launch application" dialog for user

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)
	● Webapp	● Webapp
	● Add-ons	● Add-ons
	● Native app	● Native app
		● Application Details
Redesigned	● Add-ons	● Add-ons
	● Save	● Native app

Action + Application

Mixing actions and application confused user

Application

Highlight applications as options to open file/protocol

* Add-ons included: Add-on/Extension/Plug-in

Handlers in Preferences

Applications ⊘

File Handler

Firefox allows user to install Add-ons to make it possible for browser to show you certain types of web file. You can specify a option to change the default action for how the browser handle the file type.

Search any protocol or application

File Type	Default Action
📄 pdf	Preview with Firefox ▼

Protocol Handler

Firefox allows you to manage the avaliable applications to open a protocol link. You can specify a option to change the default action for how the browser handle the protocol.

Search any protocol or application

Protocol Type	Default Action
📄 mailto	Open with Gmail ▼
📄 irc	Open with Mibbit ▼
📄 webcal	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

Firefox allows user to install Add-ons to make it possible for browser to display certain types of files. You can specify an option to change the default action for how Firefox handles the file type.

Search any file type or application

File Type	Default Action
pdf	Preview in PDF viewer ▼

Preview in PDF viewer ⬤

Preview in firefox ⬤

Download file ⬤

All installed Add-ons which support to preview this type of files will be listed under the default action list

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

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.

File Handler Registration

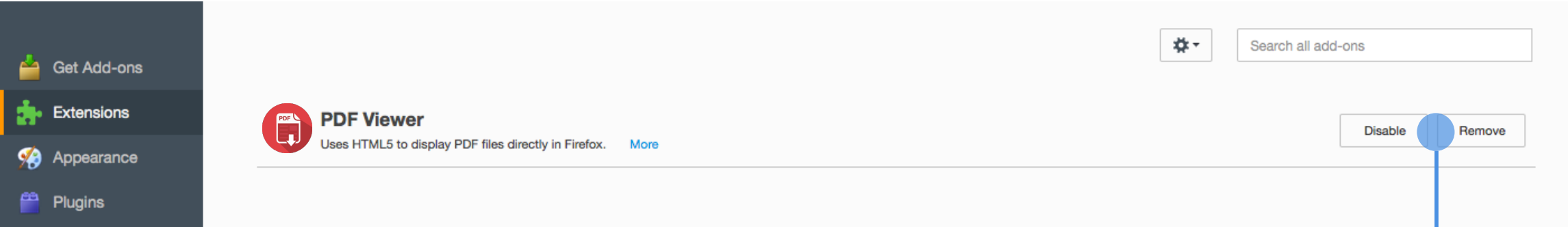**Install Add-ons which support to open a certain type of file**
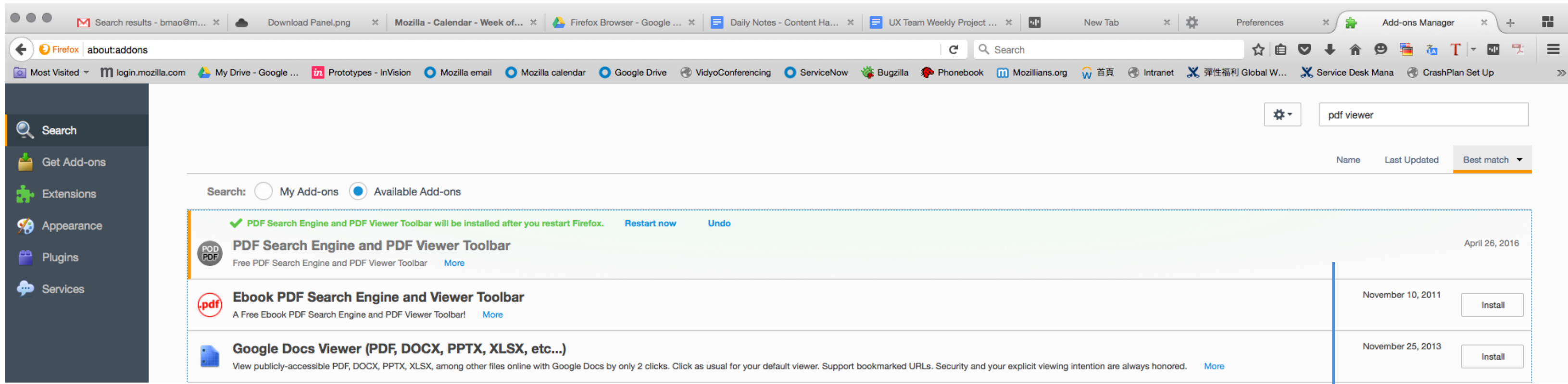
File Type	Default Action	
📄 pdf	🔴 Preview with PDF viewer	▼

Register the "File type" in file handler, and set the installed Add-ons as default option to open the file

Remove File Handler

Disable

1. If users disable the Add-on, disable the option from the list and set following one as default action.

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

Remove

If users remove the Add-ons, remove the option from the list and set following one as default action

File Type	Default Action	
pdf	Preview with Firefox	▼

Original Option lists

- Preview in PDF viewer
- Preview in firefox
- Save file

Disable PDF viewer

- Preview in firefox
- Preview in PDF viewer
- Save file

Remove PDF viewer

- Preview in firefox
- Save file

Protocol Handler

Protocol Handler

Firefox allows you to manage the avaliable applications to open a protocol link. You can specify an option to change the default action for how Firefox handle the protocol.

Search any protocol or application

Protocol Type	Default Action
mailto	Open with Gmail ▼
	Open with Gmail 🗑
irc	Open with Yahoo! Mail 🗑
webcal	Open with Mail (OS 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 Webapp from the list, please find "Remove protocol" section for more information.

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/My yahoo
6. add live bookmark in Firefox
7. add live bookmark in Firefox
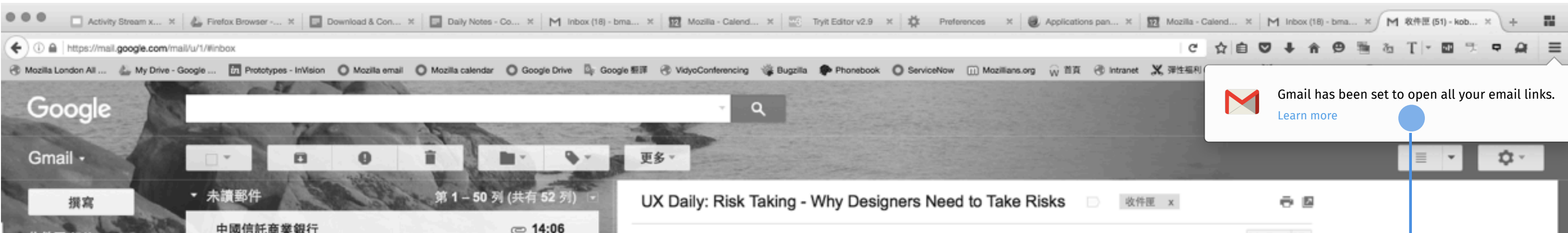
Protocol Handler Registration

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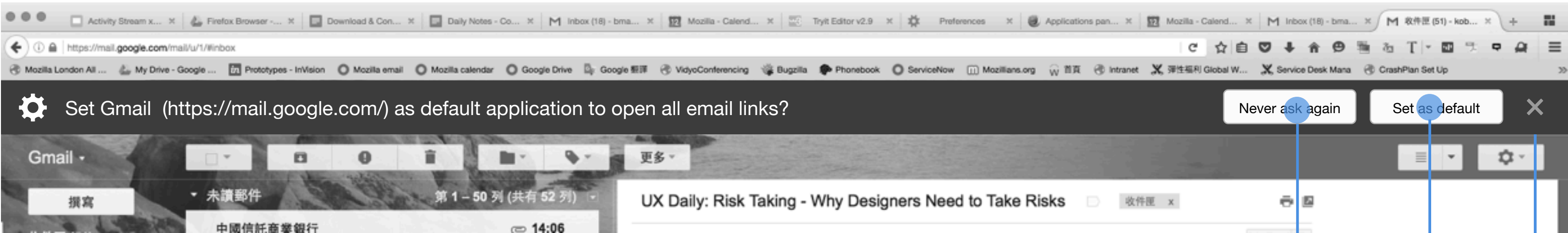
Dismiss the notification bar and do not show it again
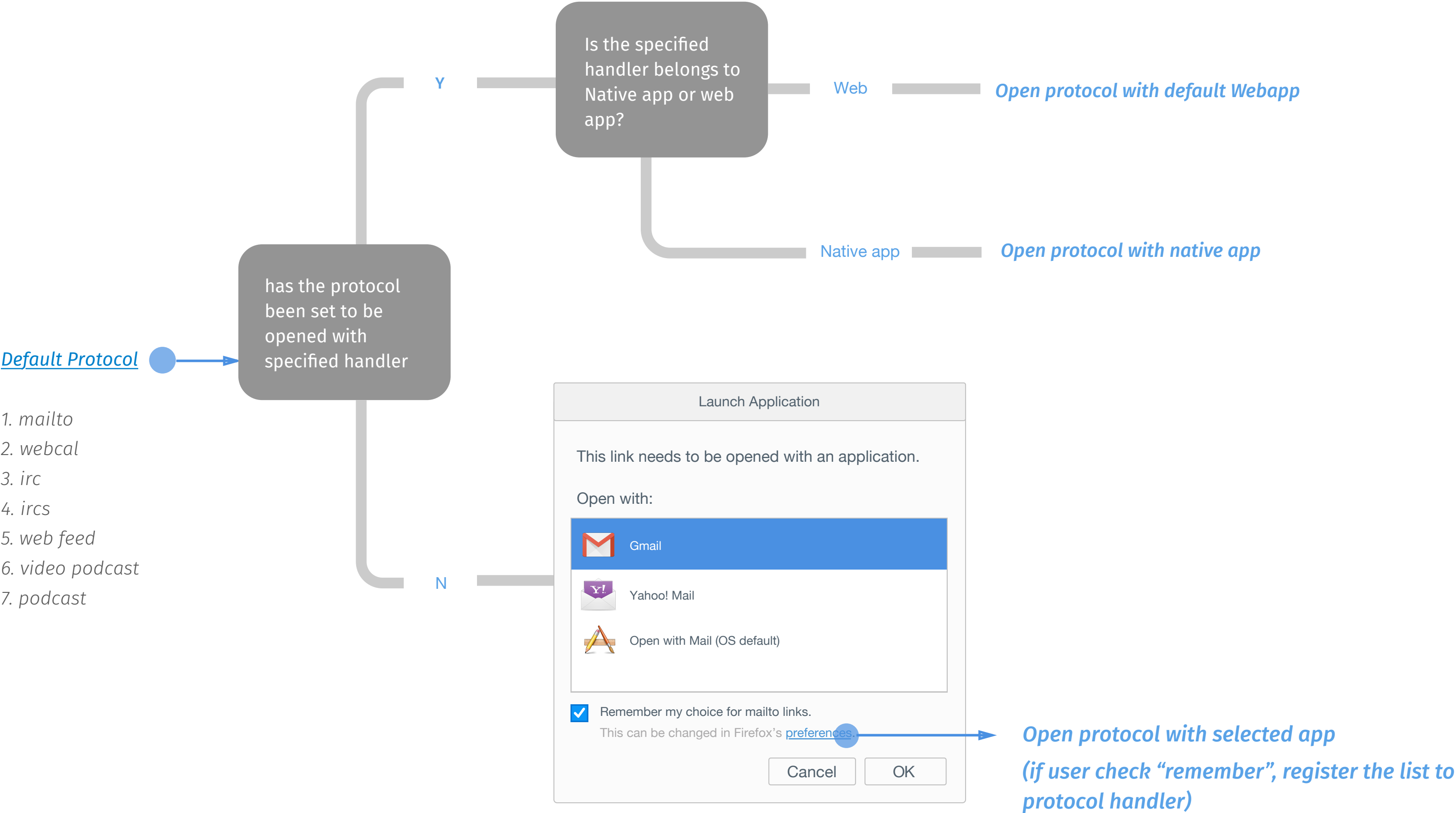
Dismiss the bar

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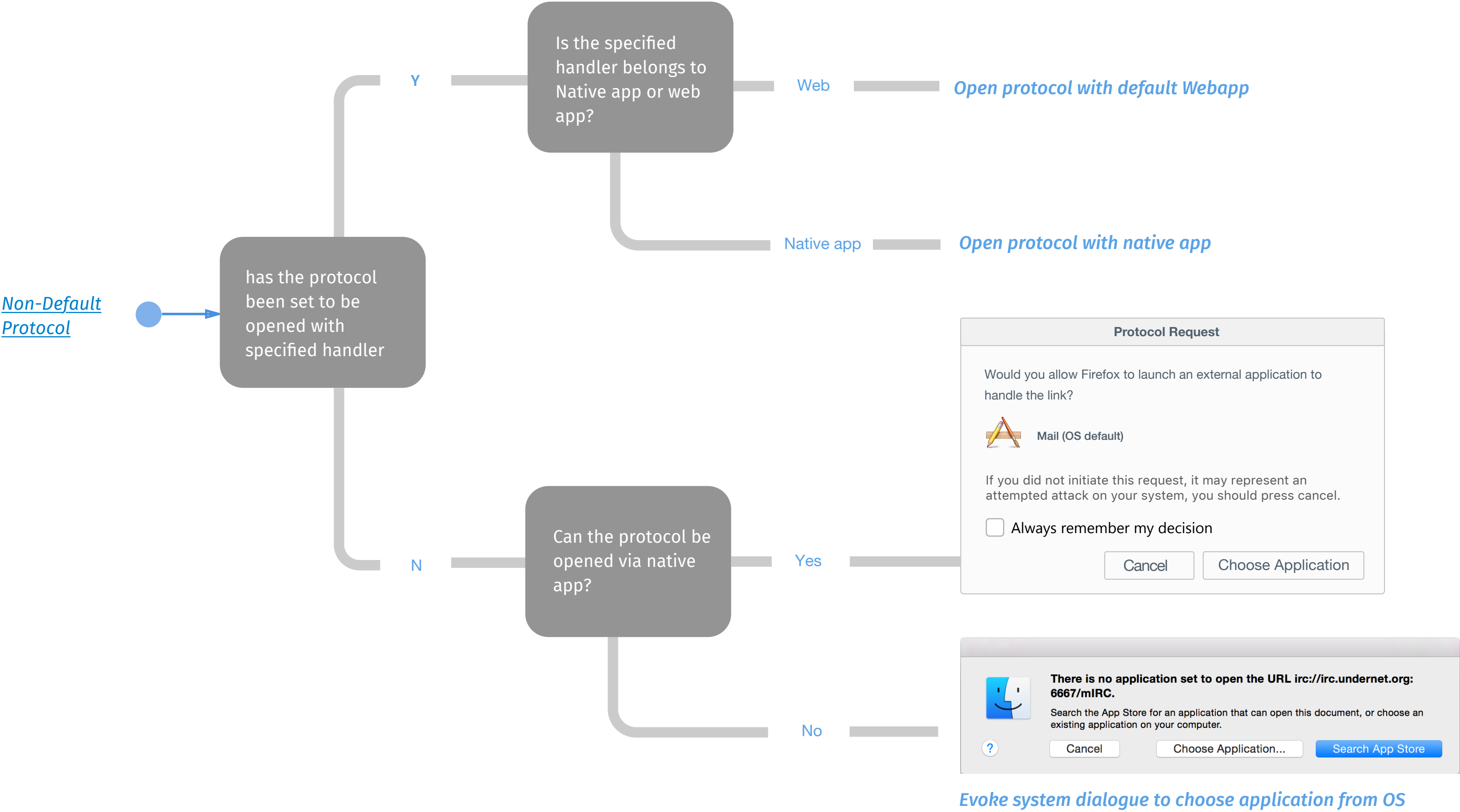

Open a new tab and link the page to protocol handler in Settings

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:

M	Gmail
Y!	Yahoo! Mail
A	Open with Mail (OS default)

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

Cancel   OK

→ *Open protocol with selected app*

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

Open Non-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***

Non-Default Protocol

has the protocol been set to be opened with specified handler

Can the protocol be opened via native app?

N

Yes

No

Protocol Request

Would you allow Firefox to launch an external application to handle the link?

Mail (OS default)

If you did not initiate this request, it may represent an attempted attack on your system, you should press cancel.

☐ Always remember my decision

Cancel   Choose Application

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	M Open with Gmail ▼
📄 irc	M Open with Gmail 🗑
📄 webcal	Y! Open with Yahoo! Mail 🗑
	A Open with Mail (OS default)

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

Protocol Type ▼	Default Action
📄 mailto	Y! Open with Yahoo! Mail ▼
📄 irc	Y! Open with Yahoo! Mail 🗑
📄 webcal	A Open with Mail (OS default)

Protocol Type ▼	Default Action
📄 mailto	A Open with Mail (OS default) ▼
📄 irc	A Open with Mail (OS default)
📄 webcal	30 Open with 30 boxes ▼