

GreaseMonkey Webinar – September 25, 2021

Speakers: Drs. John Robertson, John Yap, Stan Hurwitz

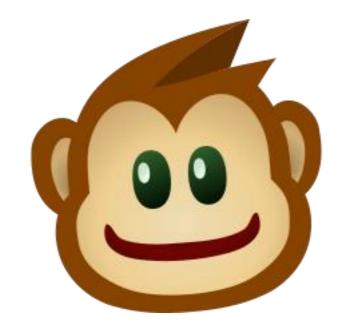


Disclosures:

- Dr. John Yap: GP in New Westminster, OSCAR BC president (volunteer). EMR OSP is WELL/KAI. OSCAR BC subscriber. eFORM generator. Wannabe programmer! GreaseMonkey script USER! No financial conflicts.
- Dr. John Robertson: Ob-Gyn in Chilliwack. EMR OSP is OpenOSP. Volunteer OSCAR (OCUS, World Oscar) Librarian. eFORM creator. GreaseMonkey user. No financial conflicts.
- Dr. Stanley Hurwitz: GP in Richmond, amateur programmer. EMR OSP is Juno.



What is GreaseMonkey – Wikipedia:



Greasemonkey is a <u>userscript manager</u> made available as a <u>Mozilla Firefox extension</u>. It enables users to install <u>scripts</u> that make on-the-fly changes to <u>web page</u> content after or before the page is loaded in the browser (also known as <u>augmented browsing</u>).

The changes made to the web pages are executed every time the page is viewed, making them effectively permanent for the user running the script.

Greasemonkey can be used for customizing page appearance, adding new functions to web pages (for example, embedding price comparisons within shopping sites), fixing rendering bugs, combining data from multiple web pages, and numerous other purposes.

Greasemonkey was initially met with complaints by publishers for its ability to block ads.



But in plain language – what does it really do?

- Change your display e.g. Lab Row Display, sorted alphabetically
- Enhance demographic info on the eCHART page
- Allow for recompilation of multi-line invoices (private and MSP)
- Create short-cuts to eFORMS, Measurement Groups, external websites
- Reduce number of clicks to complete functions
- Add preset text to input fields (autohotkey, text-expander type function)
- Proof of concept for end-user features that hopefully will inspire the real developers to incorporate into the "trunk" of OSCAR



SOUSCAR BC

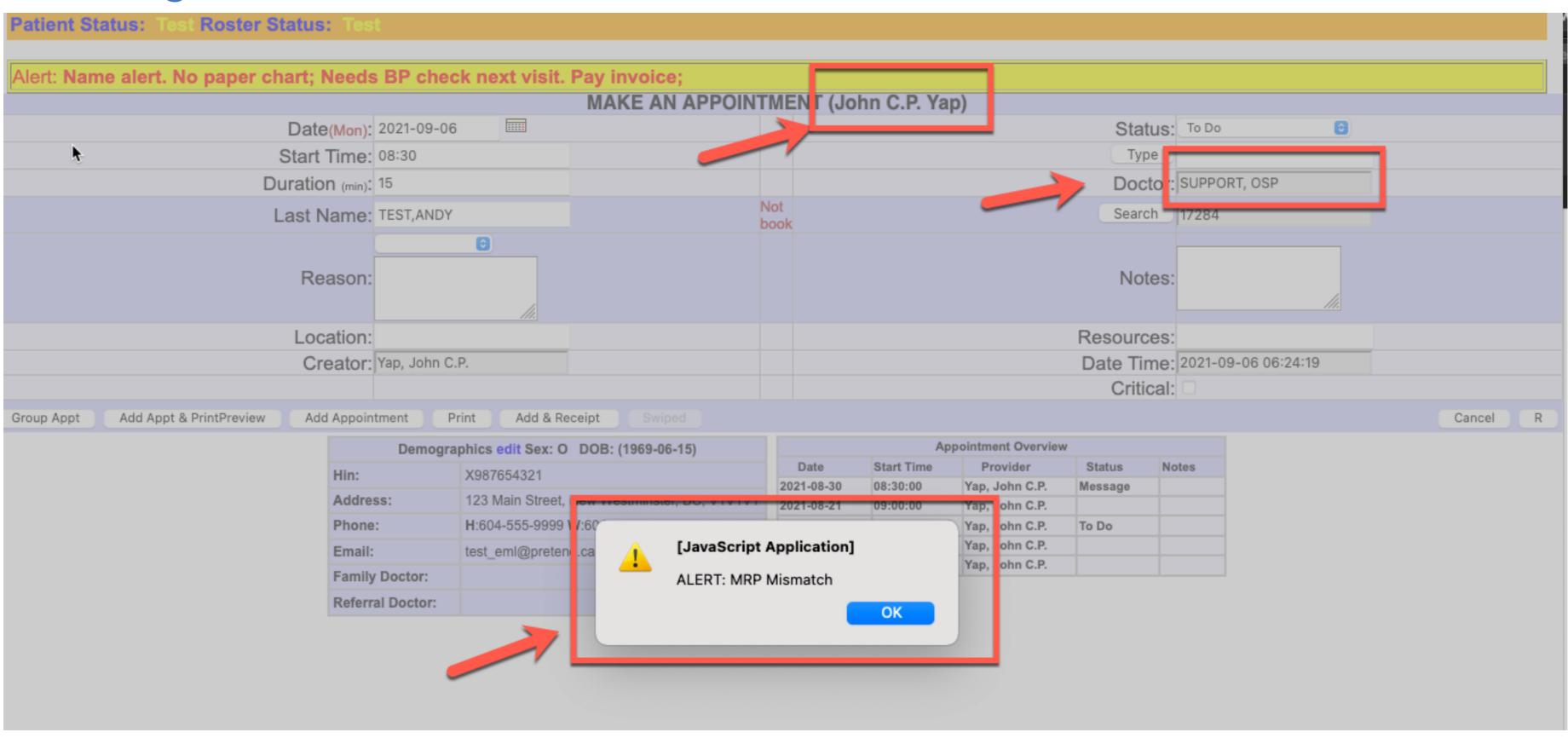
Connecting Care • Creating Community

What does an GM script look like? (snippet from "Booking Screen Confirm MRP")

```
// ==UserScript==
// @name Booking Screen Confirm MRP
// @namespace PMscripts
// @description Highlight if booking with non-MRP
// @include *appointment/addappointment.jsp*
// @require https://ajax.googleapis.com/ajax/libs/jquery/1.3.1/jquery.min.js
// @version 1.0
// ==/UserScript==
booking = $('div.title').html();
booking = booking.substr(booking.indexOf("(")+1);
booking = booking.substr(0, booking.indexOf(")"));
booking = booking.split(" ");
MRP = $("div.label:contains('Doctor:')").next().children().val().split(" ")[0];
MRP = MRP.replace(",", ");
MRP = MRP.replace(" ", ");
if(MRP.length > 0){
 contains=false;
 for(i=0; i<booking.length; i++){</pre>
  if(booking[i] == MRP){
  contains=true;
   break;
 if(!contains){
  alert("ALERT: MRP Mismatch");
  var match = document.createElement("div");
```

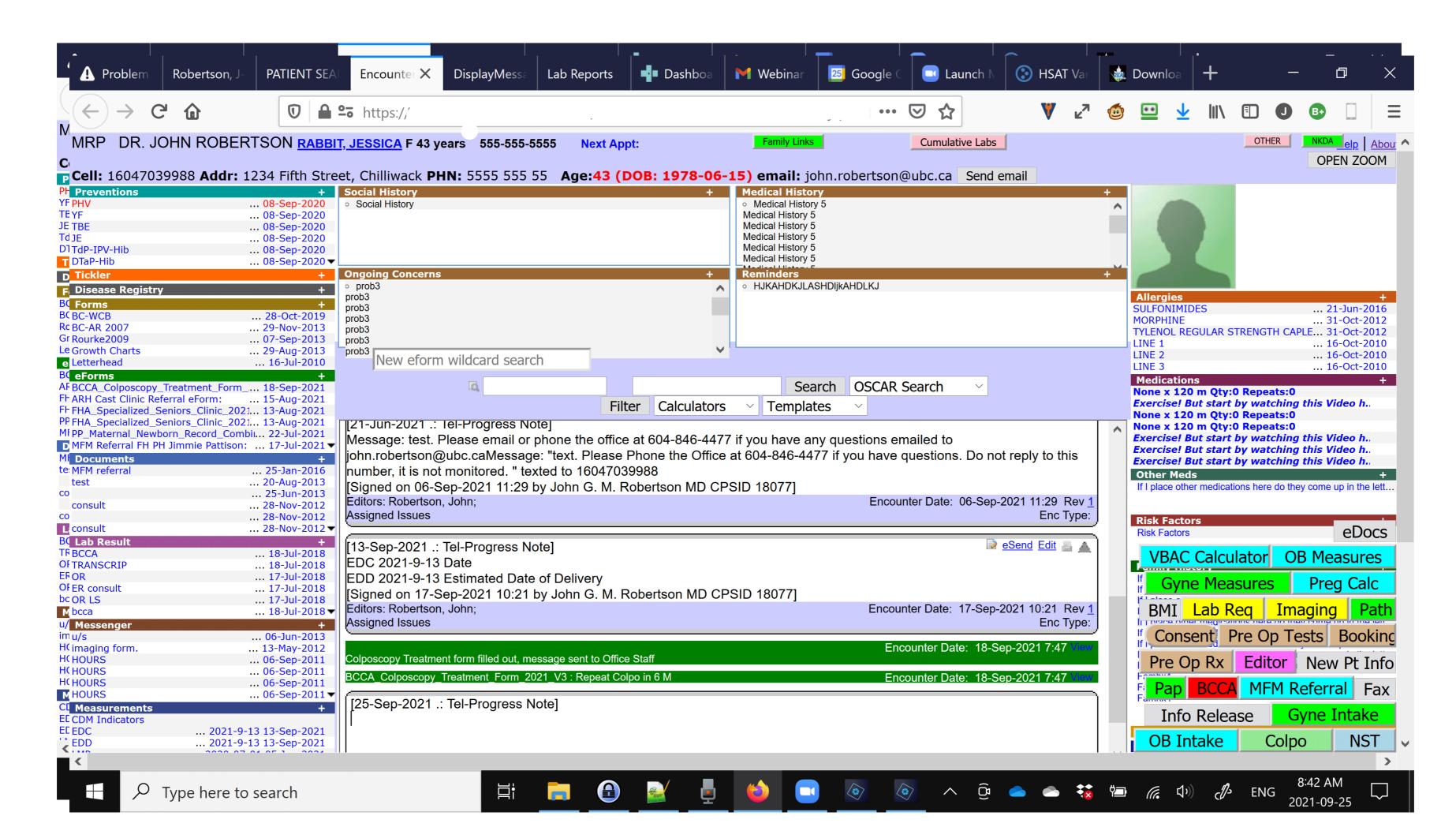


Booking Screen Confirm MRP



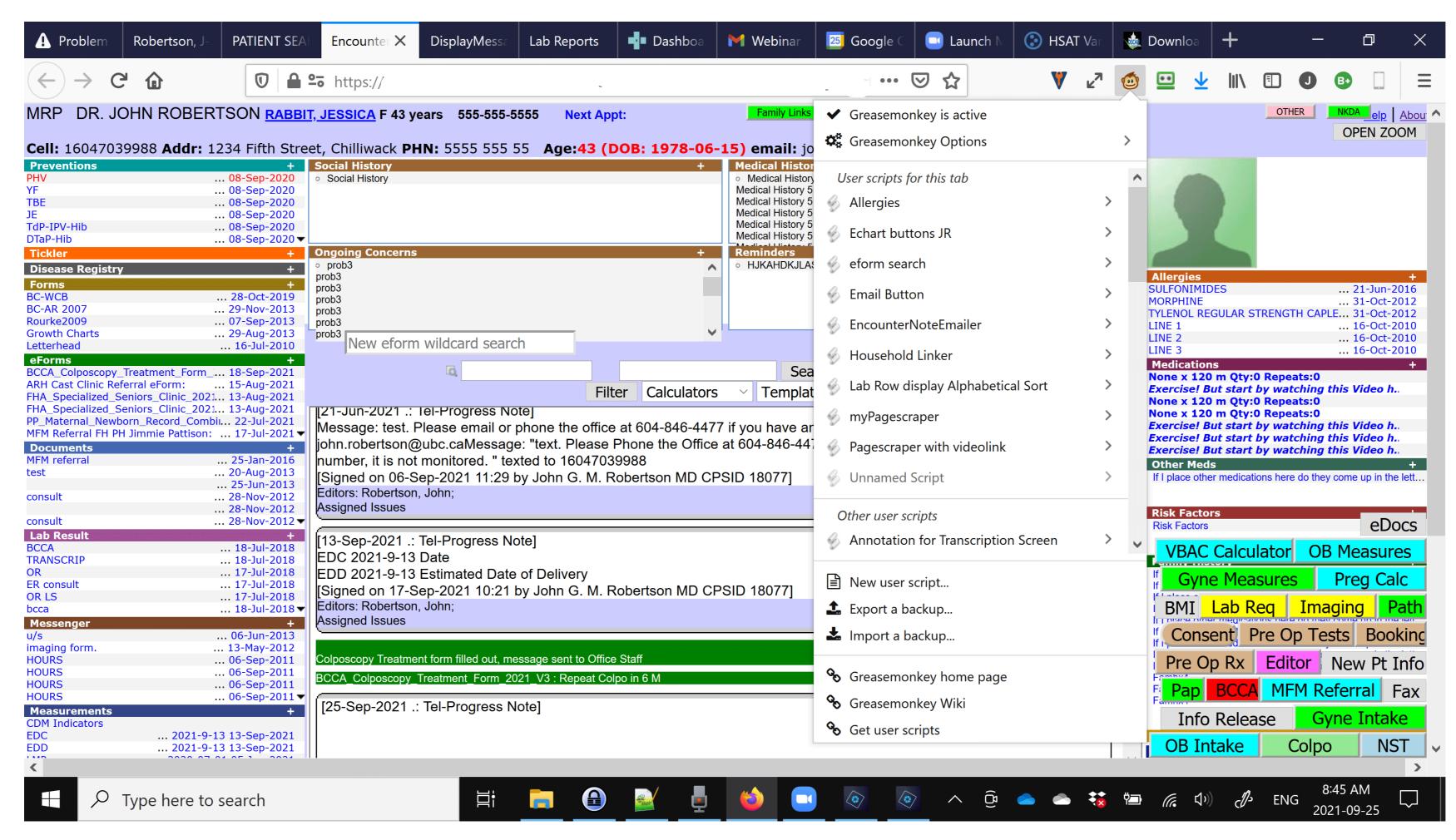


Encounter Screen GM



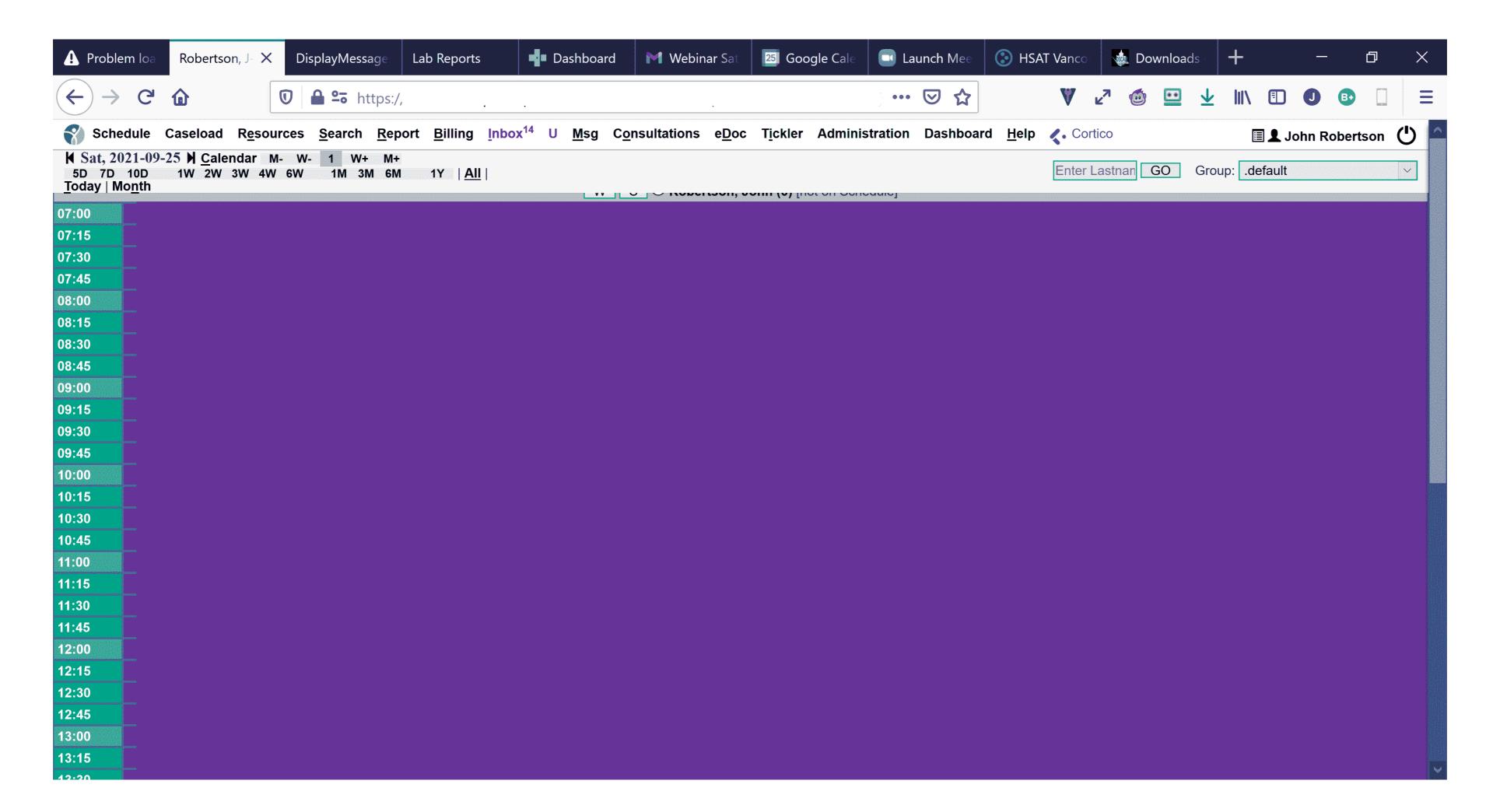


Encounter Screen GM





Schedule Screen GM



What does an eFORM script look like? (snippets from "Kamloops Cardiology Associates")

```
<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<!-- V1_Jun11_2019: Kamloops Cardiology Associates - created for Exeter Clinic, 100 Mi House; Dr. John Yap -->
<!-- V2 Sep6 2021: major updates to 2021 standards; Dr. John Yap -->
<script>
// For OSCAR to detect what files to include in the generated ZIP, the
// filename must appear in the HTML document within quotation marks, with the ${oscar_image_path} in front of it;
// this serves as a workaround to force the files to be included for ZIP exports.
// Allows for appropriate import of all png files that are not referenced by BGImage tags
// Place any needed image or js file names within the script tabs, inside double quotations, and to the right of the double slashes
// "${oscar_image_path}Kamloops_Cardiology_Associates_referral_form.png"
// "${oscar_image_path}CreativeCommonsIcon.png" // for Copy Left footer
</script>
<!-- Freeform Signatures -->
<script type="text/javascript" src="${oscar_image_path}jSignature.min.js"></script>
<!-- Xbox styling -->
<style type="text/css">
.box1 {
position: absolute;
width: 15px;
height: 15px;
font-size: 15px;
border: 1px solid #000000;
cursor: pointer;
font-weight: bold;
text-align: center;
background: aquamarine;
<script language="javascript" type="text/javascript">
startup functions
***********
function startUp() {
// new off-line architecture as per K Yap
setDocumentTitle("Kamloops_Cardiology",document.getElementById('PatientNameL').value);
changeImage("Kamloops_Cardiology_Associates_referral_form.png", "BGImage1");
changeImage("CreativeCommonsIcon.png", "CreativeCommons"); // for Copy Left footer
<!-- Patient Info -->
<textarea name="patient" name" id="patient" name" type="text" class="noborder" style="position:absolute; left:175px; top:215px; width:265px; height:34px; font-size:16px; background:white;"
oscardb=patient_name></textarea>
```

<input name="HIN" id="HIN" type="text" class="noborder" style="position:absolute; left:505px; top:219px; width:190px; font-size:16px; background:transparent;" oscardb=HIN>



Kamloops Cardiology Associates



201 – 300 Columbia St. Kamloops, BC V2C 6L1 Office: 250-318-5083 Fax: 1-888-841-4013

| ephen Chow, _{MD, FACC} ren Chu _{, MD, FRCPC} | Suman Dhesi, _{M.I} Shawn Pun _{, M.D.} I | | Gursteven Sra _{, Mi} Jacobus Steyn _{, M} | | | |
|---|--|----------------------------------|---|-----------------|---|---------------------|
| atient Information: | | | | | | |
| ull Name: | | PHN: | | | | |
| DOB: | | *Phone: | , home | ch | efault contact # is hoose alternate cor | |
| efer to: First available Card | | Cardiologist: pect a possible | e longer wait time | | Choose | • |
| as the patient seen a 'Yes', include previo | a cardiologist? ous consult (if availabl | e) and all relev | Yes Yant cardiac invest | No igations. | | |
| elevant History: | | | | | Add P | Mille |
| | | | | | ▼ Restar | |
| | | | | | | |
| | | | | | | |
| edications: | | | | | | |
| | | | | | Add M | |
| | | | | | | _ |
| | | | | | | |
| | | | | | | |
| | vant investigations (ie | | | - | 3, | w Labs |
| | cardiac CT/MRI's, etc) fo may result in delays | | rmed outside of R | IH, please incl | lude Review | w Documents |
| | als (< 2 weeks), pleas | | on-call cardiolog | nist at Royal | | |
| land Hospital. | aro (+2 moons), prous | oo oomaat m | on our oururoro, | jiot at Hoyai | | |
| | | | | | | |
| Referring Physician: | | MSP | Number: | | | |
| Signature: | <u>R</u> | | Date: | | | Stamp Wet Clear Sig |
| | | | | | | The Olean Sig |
| D Ph: | MD Fax: | | | | | |
| ıbject: | Reset | Print Subm | NIE. | | | |
| | | | | | | |

Creative Commons License Kamloops Cardiology Associates eForm V2_Sep6_2021, by Dr. John Yap, is licensed under a GPL. Please consider supporting oscarbc.ca. I Email: info@oscarbc.ca/ I Facebook I Twitter I LinkedIn I



Essential GM scripts? Too many!!

- Pagescraper multiple variations
- eCHART buttons
- eFORM wild card search (even better than the original Awesome Search Box)
- Tickler Set Default, SendTo, Tasks
- Invoice screen
- Calendar Jump move forward by weeks or months
- Text/eMail with Twilio/MailChimp
- Quick Links
- Not assigned page (InBox)
- Annotation for transcription (InBox)
- Transcription highlight (copy and paste)
- Billing screen defaults (lock Payee, location, etc)
- Demographic copy
- Household Linker
- Invoice screens (multiple)
- Lab Row display (alphabetical sorting)



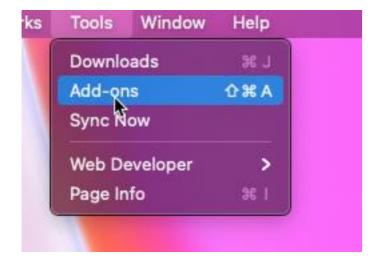
That's GREAT! So why doesn't my OSP install them for me?!

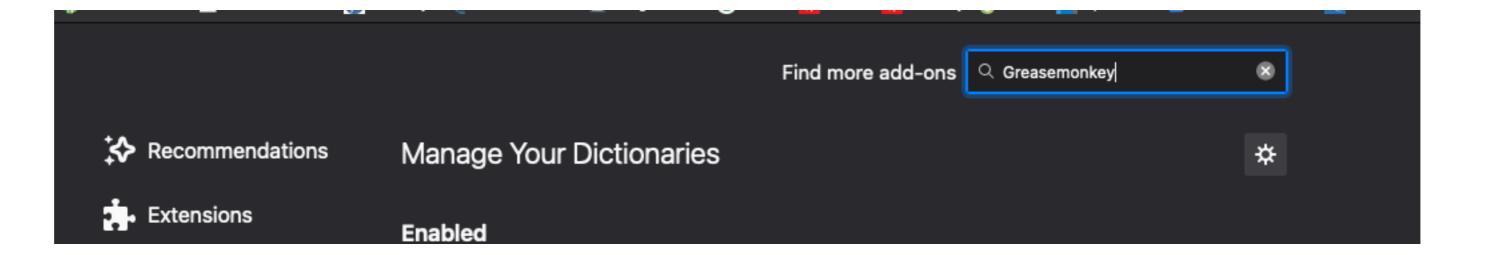
The ugly truth:

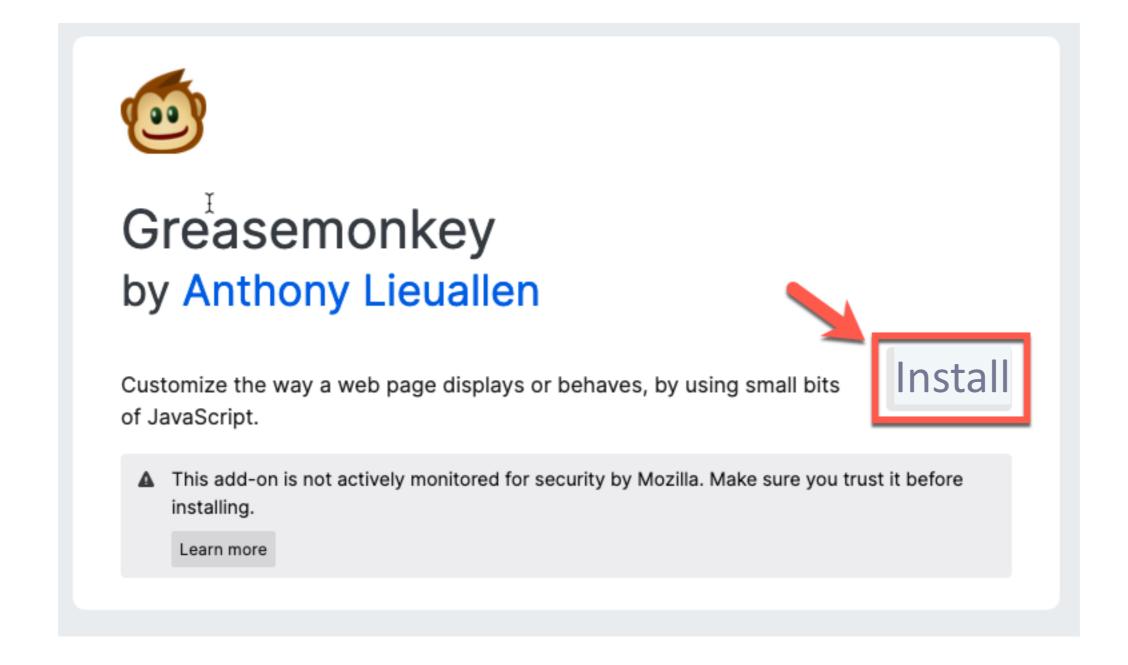
- GM scripts work in FireFox, not in Chrome (Tamper Monkey)
- GM has been known to fail after FireFox upgrades (security issues?)
- GM itself upgrades (security issues!) and some existing scripts may fail after upgrade
- GM assumes all OSCAR instances are the same they are NOT!
- Your preferred window size affects how GM displays (position)
- If there is a problem with your GM script, your OSP is unlikely to assist, because it is OUTSIDE of OSCAR
- All the more reason that these essential features get incorporated into OSCAR for all to use. "It should have been this way in the first place!"



Getting GreaseMonkey (Mac view)

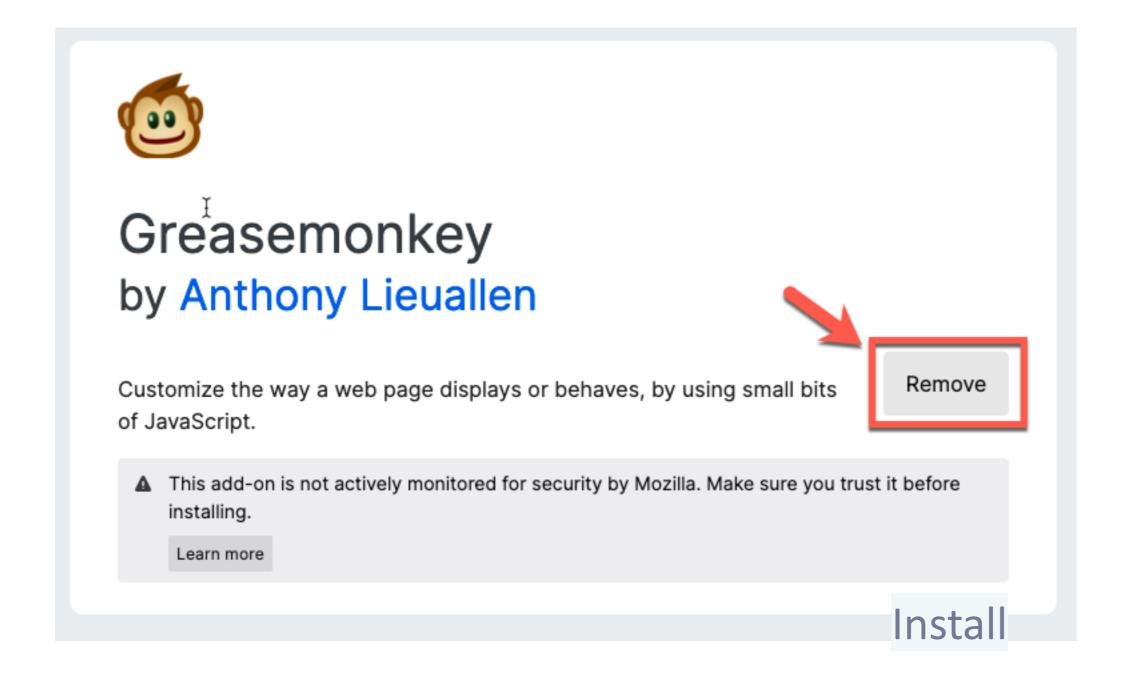








Getting GreaseMonkey (Windows view)



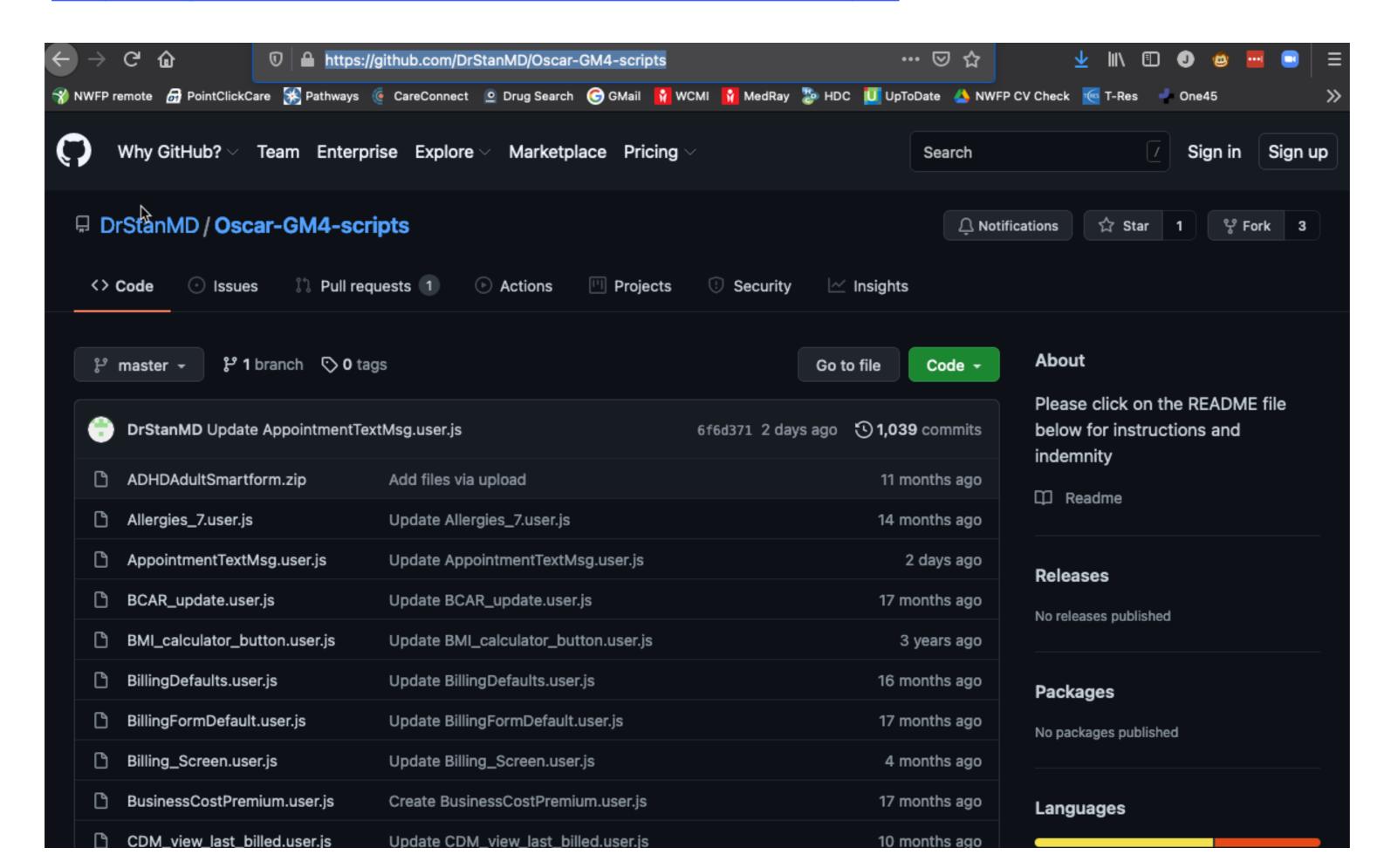


SOSCAR BC

Connecting Care • Creating Community

Getting GreaseMonkey Scripts: the jackpot!

https://github.com/DrStanMD/Oscar-GM4-scripts





SOUSCAR BC

Connecting Care • Creating Community

Getting GreaseMonkey Scripts: Oscarcanada.org

http://oscarcanada.org/oscar-users/emr-resource/eform/eforms-in-development-beta-testing/useful-code/greasemonkey-scripts/greasemonkey-scripts-for-gm-4/greasemonkey-scripts-for-gm-4-from-stan-shaw-december-2017

Home

You are here: Home / OSCAR Users / EMR and Case Management Resources / eForms / eForms in development/beta testing / Useful Code / Greasemonkey Scripts / Greasemonkey Scripts for GM 4 from Stan Hurwitz December 2017

About OSCAR

OSCAR Users

EMR and Case Management Resources

eForms

eForms for download

eForms in development/beta testing

Useful Code

4 signature form

Greasemonkey Scripts

OSCAR in Tabs

Tools for the Image Folder

Prescription module add on n to annotate all medications

Greasemonkey Scripts for GM 4 from Stan Hurwitz December 2017

These are updated greasemonkey scripts from Stan Hurwitz: ---- GM4 and Firefox quantum - what I've learnt so far ---- 1. GM 4 does not support for each... Use: for (var theOption of theOptions) 2. Legacy scripts such as Vb Trim() will break code (this slipped in on one of my lines). 3. To date GM4 does not support file import or export nor does it support local file import. Files need to be imported one at a time from a remote URL such as Github. 4. GM4 blocks calling a webpage function such as: getComment('ackLab') This needs to be changed to: unsafeWindow.getComment('ackLab') 5. Firefox quantum blocks imports of addons. To temporarily disable import block, see this link: https://github.com/greasemonkey/greasemonkey/issues/2631 (about:config - security.csp) 6. I have uploaded my GM scripts to Github. Click on the script name then click on RAW link. This will open a GM4 import dialog in Firefox quantum. You will have to uninstall Tampermonkey as the import will default to Tampermonkey rather than GM. https://github.com/DrStanMD/Oscar-GM4-scripts Alternatively add a new GM file and then replace the default with the new code. This is uncharted territory. All feedback and comments are appreciated!

Allergies 7

Adds Navigation buttons for NKDA and common allergies, Auto FLUSHOT button

BC Antenatal Record Updater

Auto populate BC-AR with measurements

Billing Screen.user

Set start and end times with one click for time dependent billing codes

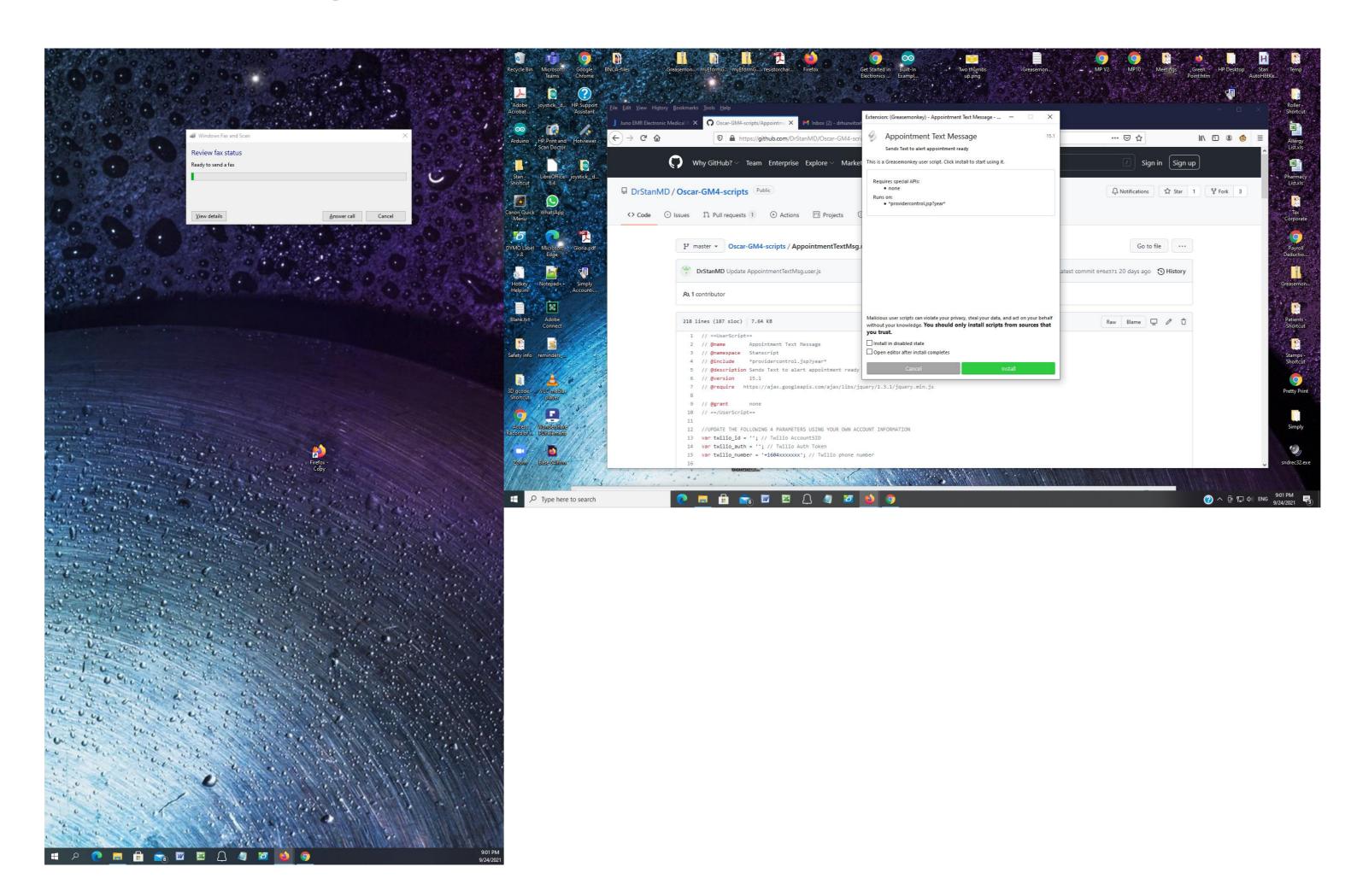
BillingDefaults.user

Sets the default billing physician and date today when billing from Master screen.



Connecting Care • Creating Community

Downloading GreaseMonkey Scripts: from GitHub!

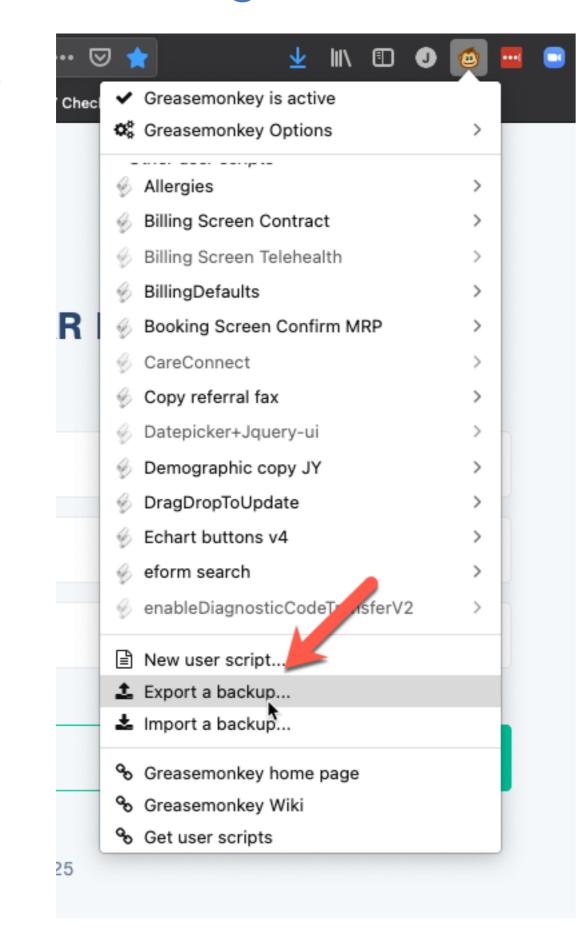


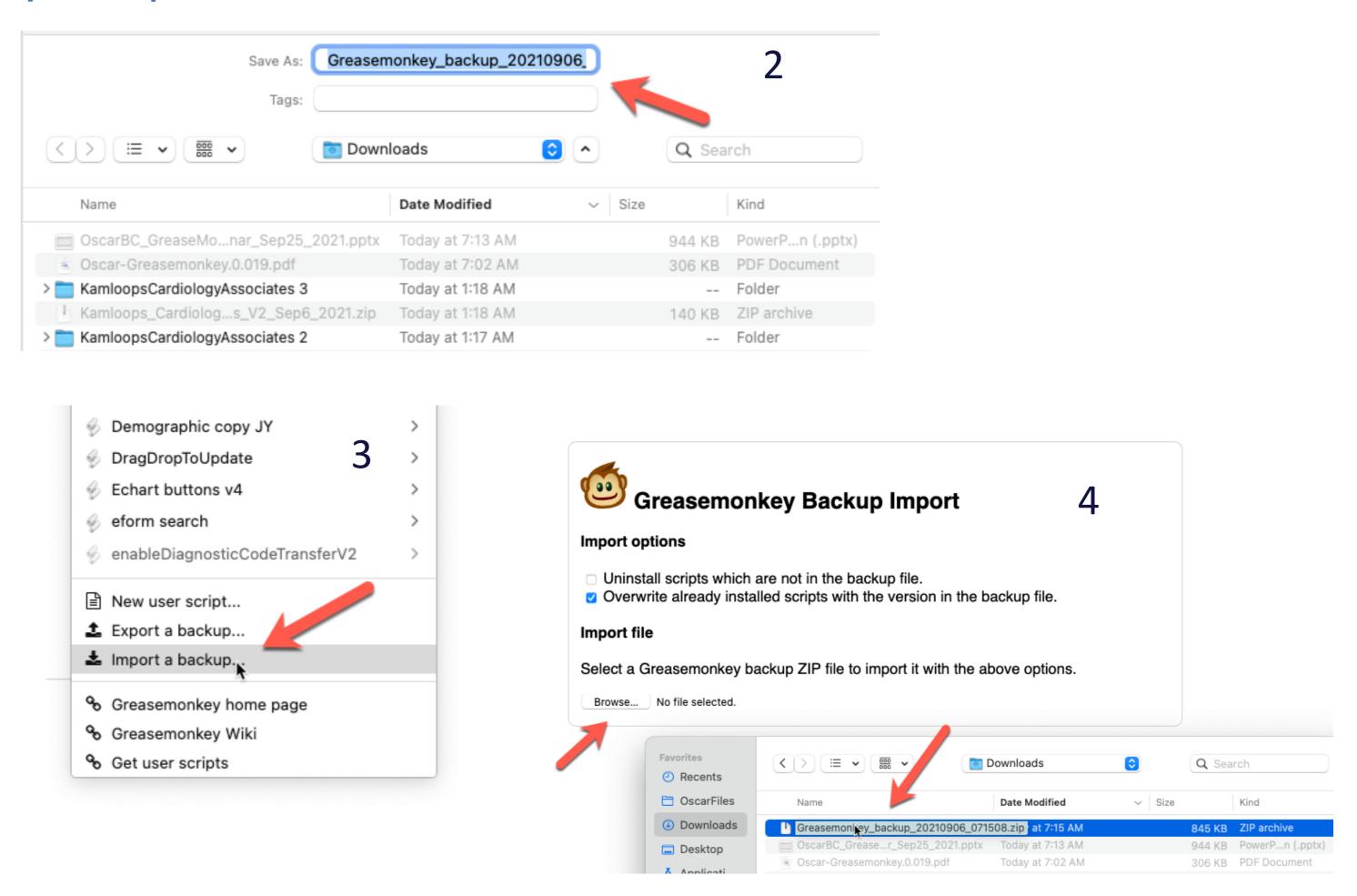


SOUSCAR BC

Connecting Care • Creating Community

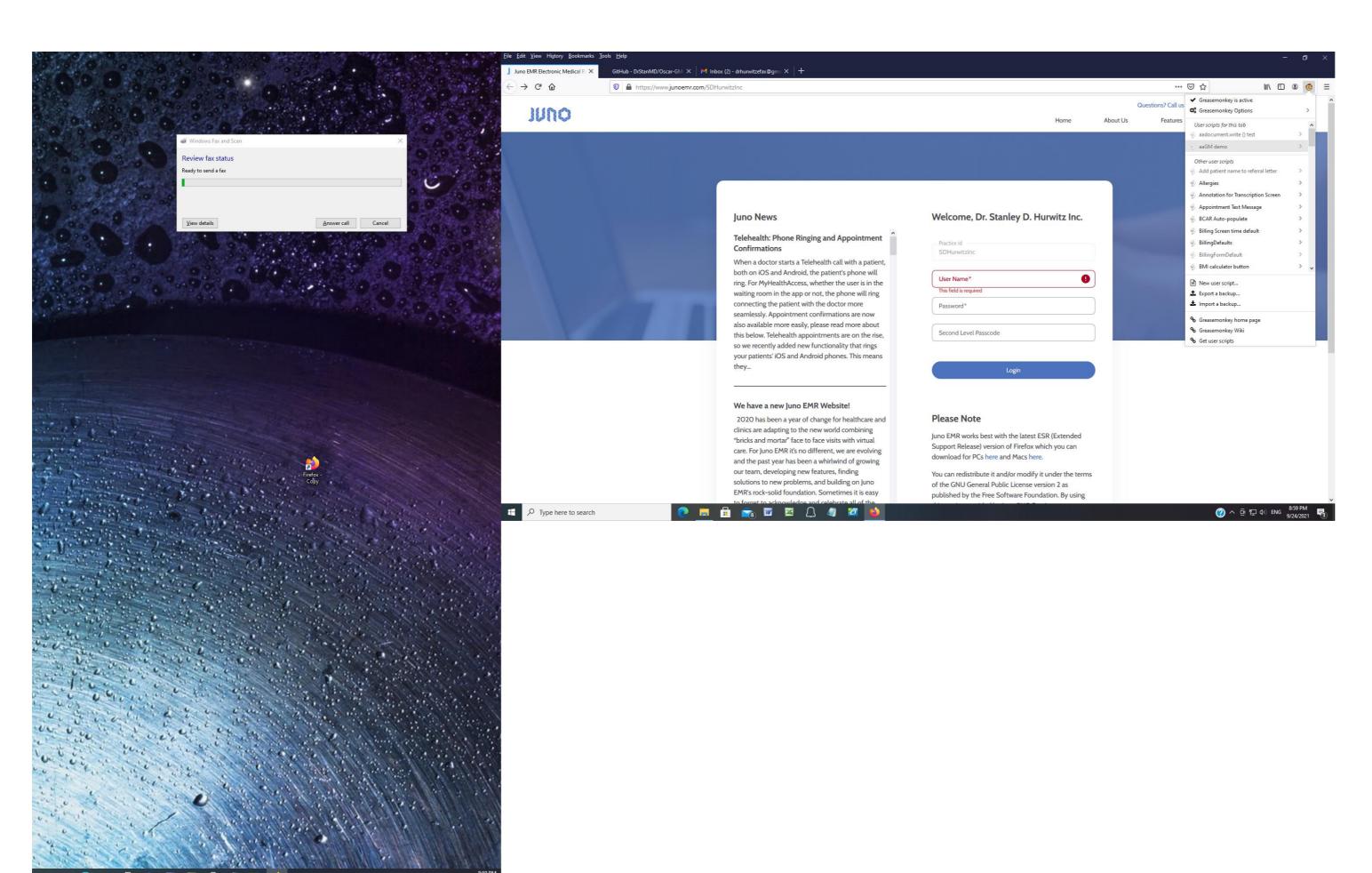
Getting GreaseMonkey Scripts: from trusted fellow GM users!







Your library of GM scripts – under the "monkey"





Other resources for the GM keeners:

https://github.com/DrStanMD/Oscar-GM4-scripts/blob/master/Greasemonkey%20Cheat%20Sheet.txt

https://www.w3schools.com/js/

https://stackoverflow.com/



Demo Time!

John R, John Y, Stan H

Simple customizations

- Reposition
- Resize
- Change colour
- Other?



