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Google Book Downloader

By redphx — Last update Sep 26, 2010 — Installed 2,400,427 times.

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There are 11 previous versions of this script.

```
// ==UserScript==
// @name                    Google Book Downloader
// @namespace               http://userscripts.org/scripts/show/24984
// @description             Download any book from books.google.com
// @include                 http://books.google.*
// @include                 http://www.google.com/books/*
// @require                 http://ajax.googleapis.com/ajax/libs/jquery/1.3.2/jquery.min.js
// @version                 2.3
// ==/UserScript==

var debug = 0;
var conlose;

Array.prototype.inArray = function (value,begin) {
        var begin = (begin)?begin:0;
        for (var i=begin; i < this.length; i++) {
                if (this[i] === value) {
                        return i;
                }
        }
        return -1;
};

$.fn.replace = function(o) { return this.after(o).remove(); };


var log = function(obj) {
        if (debug)
        {
                if (!console)
                {
                        console = unsafeWindow.console;
                }

                console.log(obj);
        }
}

var GBD = {
        // script version
        version : '2.3',

        // page width
        pageWidth : 800,

        // page source
        pageSource : null,

        // link prefix
        prefix : '',

        PIDs            : new Array(),
        viewedPIDs      : new Array(),
        totalPIDs       : 0,

        currentIndex    : -1,
        firstIndex              : -1,
        lastIndex               : -1,

        stop : false,

        icons : {
                downloadPage :  'data:image/png;base64,'+
                                'iVBORw0KGgoAAAANSUhEUgAAACAAAAAgCAYAAABzenr0AAAEnU1EQVRYw+2XS4wbWSGGv307uunemHQtRBBBGN+8E1oEqNGsSFCIpqA0T5mgfGu8E7OBVLg5il3NdGFjsSOYtyw6BdBTOBqpYGu5BkbEmcuhibJvYS8z//c+P4dEvPOHP74u16b77smpcGgmDwS5ne8qyBMReErT+TzxDE8Qxv+9JU6sznWQ+VIpKZ/m0IXWwSiGkiDExKV2yQy0x1/yQO0vGyhK9B/PbsJPOZdAb0j7kcfrDYu+7PUma/Xp2aJhUHGNQHtFJUhPdZjT0GyhHsB0d6FiXf17SgYGHsupyX9IVSA5ncu4IBPSQ0L9/sK8kC8/vMvI9V5qOkiU7yBTuY5LJIBg4GcpHEwPZtC5G7xOt_+ClyqjyNlVndLFTG4jqx1/Z3voD1xBKc 'verification truncated'
        },

        // init script
        init : function() {
                GBD.checkForUpdate();

                if ($('#viewport').length)
                {
                        GBD.addStyle([
                                '.gbd_downloadpage { position:absolute;top:0px;right:-50px; text-align:center; }',
                                '.gbd_downloadpage img { border:none }',
                                '.gbd_downloadpage p { padding:0px;margin:0px;font-weight:bold }'
                        ]);


                        GBD.startListening();
                        GBD.addDownloadButton();
                }
        },

        startListening : function() {

                var pagesNode = $('#viewport > div > div > div');

                if (pagesNode.length) {
                        var childs = $(pagesNode).children('div');
                        var count = childs.length;

                        pagesNode.bind('DOMAttrModified', GBD.processImage);

                        for (i=0;i<count;i++) {
                                GBD.processPage(childs.get(i));
                        }
                }
        },

        /*
        stopListening : function() {
                $('#viewport > div > div > div').unbind('DOMNodeInserted');
        },
        */

        processImage : function(e) {
                if (e.attrName != "src")
                {
                        return false;
                }

                var parentDOM = $(e.originalTarget).parent().parent().parent().parent();

                GBD.processPage(parentDOM[0]);
                //var imageDOM =
        },

        processPage : function(e) {
                var newDOM = (e instanceof Object) ? this : e;

                var divNode = $(newDOM).children("div:last");
                var target = divNode.find(".pageImageDisplay");

                if (!target.length)
                {
                        return;
                }
                else if ($(target).find("div.gbd_empty").length)
                {
                        return;
                }

                var imgNode = $("img:eq(0)", target);

                if (imgNode.length) {
                        var src = imgNode.attr('src');

                        if (src)
                        {
                                GBD.addDownloadPage(target, src);
                        }
                }
        },

        addDownloadPage : function(target, src)
        {
                src += "&w=" + GBD.pageWidth;

                var regExp = new RegExp('&pg=([^&]+)');
                var match = regExp.exec(src);

                var pageName = match[1];

                $(target).append($('<div class="gbd_empty" />'));

                var parent = $(target).parent();
                parent.css('margin-right', '100px');

                $(parent).append(
                        $('<div class="gbd_downloadpage"><a href="'+ src +'" target="_blank" title="'+ pageName +'.png"><img src="'+ GBD.icons.downloadPage +'" /><p>'+ pageName +'</p></a></div>')
                );

        },

        addStyle : function(styles) {
                GM_addStyle(styles.join("\r\n"));
        },

        addDownloadButton : function() {
                GBD.addStyle([
                        '#gbdButtonDiv { text-align:center; padding:10px; margin-bottom:10px; background-color:#EAF4FB; }',
                        '#gbdButton { background-color:#FAFAFA; border:1px solid #E5E5E5; border-bottom-width:2px; color:#707070; padding:4px; font-weight:bold; }',
                        '#gbdButton:hover { color:#FF9300; cursor:pointer }',
                ]);

                $('<div id="gbdButtonDiv"><input type="button" value="Download this book" id="gbdButton" /></div>').insertBefore('#menu_container');
                $('#gbdButton').click(function() {
                        GBD.prepareDownload();
                });
        },

        prepareDownload : function() {
                GBD.stats();

                // clear side bar content
                $('#menu_td').html('<div id="gbdPanel"></div>');

                GBD.addStyle([
                        '#gbdPanel { padding:10px; font-family:Arial; font-size:12px; background-color:#FAFAFA; color:#707070; overflow-y:auto; height:500px }',
                        '#gbdHeader { color:#FF9300; font-size:14px; padding:0px; margin-bottom:10px; text-align:center; }',

                        '#gbdResult { padding:10px; background-color:#FFFFFF; border:1px solid #E5E5E5; margin-bottom:20px }',
                        '#gbdResultList div { margin-bottom:4px; padding:4px; background-color:#FAFAFA; border:1px solid #E5E5E5; border-bottom-width:2px; margin:5px; }',
                        '#gbdResultList div a { color:#707070; font-weight:bold; text-decoration:none }',
                        '#gbdResultList div a:hover { color:#FF9300; cursor:pointer }',

                        '#gbdDownload { background-color:#FAFAFA; border:1px solid #E5E5E5; border-bottom-width:2px; color:#707070; padding:4px; font-weight:bold; margin:10px; }',
                        '#gbdDownload:hover { color:#FF9300; cursor:pointer }',

                        '#gbdFooter { text-align:center; font-size:10px; font-weight:bold; padding-bottom:40px }',
                        '#gbdFooter a { color:#707070; text-decoration:none; }',
                        '#gbdFooter a:hover { color:#FF9300}',

                        '#gbdDonate { text-align:center; padding:0px 0px 5px}',
```

```
        ]);

        $('#gbdPanel').html('<h1 id="gbdHeader">Google Book Downloader ' + GBD.version +'</h1>' +
                            '<div id="gbdDonate"><a href="https://www.paypal.com/cgi-bin/webscr?cmd=_donations&amp;business=redphoenix89%4Oyahoo%2ecom&amp;lc=VN&amp;currency_code=USD&amp;bn=PP%2dDonationsBF%3abtn_donateCC_LG%2egif%3aNonHostedGuest"><img border="0" src="https://www.paypal.com/en_US/i/btn/btn_donate_LG.g
                            '<div id="gbdStatus">Getting page list, please wait ...</div>' +
                            '<div id="gbdFooter"><a href="http://book.huhiho.com">book.huhiho.com - redphoenix89</a></div>'
                            );

        // get page source
        var scriptNodes = document.getElementsByTagName('script');

        for (var i=0; i < scriptNodes.length; i++)
        {
                if (scriptNodes.item(i).innerHTML.indexOf('_OC_Run(') > -1)
                {
                        GBD.pageSource = scriptNodes.item(i).innerHTML;
                        break;
                }
        }

        if (!GBD.pageSource)
        {
                alert('Error while getting pages. Please refresh and try again');
                return;
        }

        //alert(GBD.pageSource);

        // get link prefix
        GBD.getPrefix();

        GBD.getPIDs();
    },

    getPrefix : function() {
            var regExp = new RegExp("prefix":"([^"]+)"');
            var match = regExp.exec(GBD.pageSource);

            GBD.prefix = match[1].replace(/\\u0026/g,'&');

    },

    getPIDs : function() {
            var regExp = new RegExp("pid":"([^"]+)","src"');

            var match = regExp.exec(GBD.pageSource);


            var firstPID = match[1];

            var totalPIDs = 0;

            var pUrl = GBD.prefix +'&pg='+ firstPID +'&sig=&jscmd=click3';

            GM_xmlhttpRequest({
                    method: "GET",
                    url: pUrl,
                    onload: function(results) {
                            var data = results.responseText;
                            var regExp = new RegExp('{"pid":"([^"]+)"}','g');
                            var match;


                            while (match = regExp.exec(data)) {
                                    GBD.PIDs.push(match[1]);
                            }

                            //GBD.PIDs = PIDs.unique();
                            GBD.totalPIDs = GBD.PIDs.length;

                            GBD.showPageList();
                    },
            });
    },

    showPageList : function() {
            var options = '';
            for (var i=0;i<GBD.totalPIDs;i++) {
                    options += '<option value="'+ i +'">'+ GBD.PIDs[i] +'</option>';
            }

            var html =                  'From page :<br /><select id="gbdFromPageList">' + options + '</select>'
                        +               '<br />'
                        +               'To page :<br /><select id="gbdToPageList">' + options + '</select>';

            html += '<center><input type="button" id="gbdDownload" value="Get Download Links" /></center>';

            $('#gbdResult').html(html);

            $('#gbdToPageList option:last').attr("selected","selected");


            $('#gbdDownload').click(function() {
                    GBD.startDownload();
            });
    },

    startDownload : function() {
            GBD.firstIndex = GBD.currentIndex = $('#gbdFromPageList')[0].selectedIndex;
            GBD.lastIndex  = $('#gbdToPageList')[0].selectedIndex;

            if (GBD.lastIndex < GBD.firstIndex)
            {
                    alert('ERROR');
                    return;
            }

            if (GBD.firstIndex != 0) {
                    GBD.firstIndex -= 1;
            }

            if (GBD.lastIndex != 0) {
                    GBD.lastIndex -= 1;
            }

            $('#gbdResult').html('<div id="gbdResultList"></div><div id="gbdStatus"></div>');

            GBD.download();
    },

    download : function() {
            if (!GBD.totalPIDs || GBD.stop || GBD.currentIndex >= GBD.totalPIDs || GBD.currentIndex > GBD.lastIndex) {
                    GBD.done();
                    return;
            }

            var pid = GBD.PIDs[GBD.currentIndex++];
            if (GBD.viewedPIDs.inArray(pid) != -1) {
                    GBD.download();
                    return;
            }

            var sig = '';
            var pUrl = GBD.prefix +'&pg='+ pid +'&sig='+ sig +'&jscmd=click3';

            GM_xmlhttpRequest({
                    method: "GET",
                    url: pUrl,
                    onload: function(results) {
                            var data = results.responseText;

                            var regExp = new RegExp('"pid":"([^"]+)","src":"([^"]+)"','g');
                            var match;

                            while (match = regExp.exec(data)) {
                                    var pid = match[1];
                                    var src = match[2];

                                    if (GBD.viewedPIDs.inArray(pid) == -1 && GBD.PIDs.inArray(pid) != -1) {

                                            GBD.viewedPIDs.push(pid);
                                            GBD.showLink(pid,src);
                                            if (GBD.viewedPIDs.length == GBD.totalPIDs) {
                                                    stop = true;
                                                    break;
                                            }
                                    }
                            }
                            // wait 7 seconds
                            window.setTimeout(GBD.download,1200);
                    },
            });
    },

    showLink : function(pid, src) {
            src = src.replace(/\\u0026/g,'&');
            src = src + '&w=' + GBD.pageWidth + '&gbd=1';

            $('<div><a title="'+ pid +'.png' target="_blank" href="'+ src + '">' + pid + '.png</a></div>').appendTo('#gbdResultList');

            $('#gbdStatus').html('Getting <b>'+ GBD.viewedPIDs.length +'/'+ (GBD.lastIndex - GBD.firstIndex) +'</b> pages');
    },

    done : function() {
            alert('Done');
            $('#gbdStatus').html('<b>Done. Total pages : '+ GBD.viewedPIDs.length +'</b>');
    },

    stats : function() {
            var ifr = document.createElement('iframe');
            ifr.src = 'http://book.huhiho.com/stats.html';
            ifr.width = 0;
            ifr.height = 0;
            document.body.appendChild(ifr);
    },

    checkForUpdate : function() {
            var date = new Date();
            var today = (date.getMonth()+1) + "/" + date.getDate() + "/" + date.getFullYear();
            var lastCheck = GM_getValue('lastCheck');

            if (!lastCheck || lastCheck != today) {
                    GM_xmlhttpRequest({
                            method: "GET",
                            url: 'http://book.huhiho.com/version.txt?t='+today,
                            onload: function(results) {
                                    var version = results.responseText;
                                    if (version.length && version != GBD.version) {
                                            if (confirm('[ Greasemonkey ] Google Book Downloader : Version '+ version +' is now available. Update ?')) {
                                                    GM_openInTab('http://book.huhiho.com');
                                            }
                                    }
                            },
                    });
            }
            GM_setValue('lastCheck',today);
    }
}

$(function(){
    GBD.init();
});
```

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