

```
<?php
/**
 * Index Record Driver
 *
 * PHP version 5
 *
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 *
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 * it under the terms of the GNU General Public License version 2,
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 * along with this program; if not, write to the Free Software
 * Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
 *
 * @category VuFind
 * @package RecordDrivers
 * @author Demian Katz <demian.katz@villanova.edu>
 * @license http://opensource.org/licenses/gpl-2.0.php GNU General Public License
 * @link http://vufind.org/wiki/other_than_marc Wiki
 */
require_once 'RecordDrivers/Interface.php';

require_once 'services/MyResearch/lib/User.php';
require_once 'services/MyResearch/lib/Resource.php';
require_once 'services/MyResearch/lib/Resource_tags.php';
require_once 'services/MyResearch/lib/Tags.php';

/**
 * Index Record Driver
 *
 * This class is designed to handle records in a generic fashion, using
 * fields from the index. It is invoked when a record-format-specific
 * driver cannot be found.
 *
 * @category VuFind
 * @package RecordDrivers
 * @author Demian Katz <demian.katz@villanova.edu>
 * @license http://opensource.org/licenses/gpl-2.0.php GNU General Public License
 * @link http://vufind.org/wiki/other_than_marc Wiki
 */
class IndexRecord implements RecordInterface
{
    protected $fields;
    protected $index = false;

    /**
     * These Solr fields should be used for snippets if available (listed in order
     * of preference).
     *
     * @var array

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* @access protected
*/
protected $preferredSnippetFields = array(
    'contents', 'topic'
);

/***
 * These Solr fields should NEVER be used for snippets. (We exclude author
 * and title because they are already covered by displayed fields; we exclude
 * spelling because it contains lots of fields jammed together and may cause
 * glitchy output; we exclude ID because random numbers are not helpful).
 *
 * @var array
 * @access protected
*/
protected $forbiddenSnippetFields = array(
    'author', 'author-letter', 'title', 'title_short', 'title_full',
    'title_full_unstemmed', 'title_auth', 'title_sub', 'spelling', 'id'
);

/***
 * These are captions corresponding with Solr fields for use when displaying
 * snippets.
 *
 * @var array
 * @access protected
*/
protected $snippetCaptions = array();

/***
 * Should we highlight fields in search results?
 *
 * @var bool
 * @access protected
*/
protected $highlight = false;

/***
 * Should we include snippets in search results?
 *
 * @var bool
 * @access protected
*/
protected $snippet = false;

/***
 * Constructor. We build the object using all the data retrieved
 * from the (Solr) index (which also happens to include the
 * 'fullrecord' field containing raw metadata). Since we have to
 * make a search call to find out which record driver to construct,
 * we will already have this data available, so we might as well
 * just pass it into the constructor.
 *
 * @param array $indexFields All fields retrieved from the index.
 *
 * @access public
*/
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public function __construct($indexFields)
{
    $this->fields = $indexFields;

    // Load highlighting/snippet preferences:
    $searchSettings = getExtraConfigArray('searches');
    $this->highlight = !isset($searchSettings['General']['highlighting'])
        ? false : $searchSettings['General']['highlighting'];
    $this->snippet = !isset($searchSettings['General']['snippets'])
        ? false : $searchSettings['General']['snippets'];
    $this->snippetCaptions = isset($searchSettings['Snippet_Captions'])
        && is_array($searchSettings['Snippet_Captions']) ?
            $searchSettings['Snippet_Captions'] : array();
}

/**
 * Get text that can be displayed to represent this record in
 * breadcrumbs.
 *
 * @return string Breadcrumb text to represent this record.
 * @access public
 */
public function getBreadcrumb()
{
    return $this->getShortTitle();
}

/**
 * Assign necessary Smarty variables and return a template name
 * to load in order to display the requested citation format.
 * For legal values, see getCitationFormats(). Returns null if
 * format is not supported.
 *
 * @param string $format Citation format to display.
 *
 * @return string      Name of Smarty template file to display.
 * @access public
 */
public function getCitation($format)
{
    // Build author list:
    $authors = array();
    $primary = $this->getPrimaryAuthor();
    if (!empty($primary)) {
        $authors[] = $primary;
    }
    $authors = array_unique(
        array_merge($authors, $this->getSecondaryAuthors())
    );

    // Collect all details for citation builder:
    $publishers = $this->getPublishers();
    $pubDates = $this->getPublicationDates();
    $pubPlaces = $this->getPlacesOfPublication();
    $details = array(
        'authors' => $authors,
        'title' => $this->getShortTitle(),
        'date' => $this->getPubDate(),
        'place' => $this->getPlace(),
        'publisher' => $this->getPublisher(),
        'format' => $format
    );
}
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'subtitle' => $this->getSubtitle(),
'pubPlace' => count($pubPlaces) > 0 ? $pubPlaces[0] : null,
'pubName' => count($publishers) > 0 ? $publishers[0] : null,
'pubDate' => count($pubDates) > 0 ? $pubDates[0] : null,
'edition' => array($this->getEdition())
);

// Build the citation:
$citation = new CitationBuilder($details);
if (in_array($format, $citation->getSupportedCitationFormats())) {
    return $citation->getCitation($format);
} else {
    return '';
}

/**
 * Get an array of strings representing citation formats supported
 * by this record's data (empty if none).
 *
 * @return array Strings representing citation formats.
 * @access public
 */
public function getCitationFormats()
{
    return CitationBuilder::getSupportedCitationFormats();
}

/**
 * Assign necessary Smarty variables and return a template name to
 * load in order to display core metadata (the details shown in the
 * top portion of the record view pages, above the tabs).
 *
 * @return string Name of Smarty template file to display.
 * @access public
 */
public function getCoreMetadata()
{

    global $configArray;
    global $interface;

    // Assign required variables (some of these are also used by templates for
    // tabs, since every tab can assume that the core data is already assigned):
    // $interface->assign('coreAltTitle', $this->getAltTitle());
    $this->assignTagList();
    $interface->assign('isbn', $this->getCleanISBN()); // needed for covers
    $interface->assign('recordFormat', $this->getFormats());
    $interface->assign('recordLanguage', $this->getLanguages());

    // These variables are only used by the core template, and they are prefixed
    // with "core" to prevent conflicts with other variable names.
    $interface->assign('coreShortTitle', $this->getShortTitle());
    $interface->assign('coreSubtitle', $this->getSubtitle());
    $interface->assign('coreTitleStatement', $this->getTitleStatement());
    $interface->assign('coreTitleSection', $this->getTitleSection());
    $interface->assign('coreNextTitles', $this->getNewerTitles());
}
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$interface->assign('corePrevTitles', $this->getPreviousTitles());
$interface->assign('corePublications', $this->getPublicationDetails());
$interface->assign('coreEdition', $this->getEdition());
$interface->assign('coreSeries', $this->getSeries());
$interface->assign('coreSubjects', $this->getAllSubjectHeadings());
$interface->assign('coreRecordLinks', $this->getAllRecordLinks());
$interface->assign('coreThumbMedium', $this->getThumbnail('medium'));
$interface->assign('coreThumbLarge', $this->getThumbnail('large'));

// Only display OpenURL link if the option is turned on and we have
// an ISSN. We may eventually want to make this rule more flexible,
// but for now the ISSN restriction is designed to be consistent with
// the way we display items on the search results list.
$hasOpenURL = ($this->openURLActive('record') && $this->getCleanISSN());
if ($hasOpenURL) {
    $interface->assign('coreOpenURL', $this->getOpenURL());
}

// Only load URLs if we have no OpenURL or we are configured to allow
// URLs and OpenURLs to coexist:
if (!isset($configArray['OpenURL']['replace_other_urls']))
    || !$configArray['OpenURL']['replace_other_urls'] || !$hasOpenURL
) {
    $interface->assign('coreURLs', $this->getURLs());
}

// The secondary author array may contain a corporate or primary author;
// let's be sure we filter out duplicate values.
$mainAuthor = $this->getPrimaryAuthor();
$corpAuthor = $this->getCorporateAuthor();
$secondaryAuthors = $this->getSecondaryAuthors();
$duplicates = array();
if (!empty($mainAuthor)) {
    $duplicates[] = $mainAuthor;
}
if (!empty($corpAuthor)) {
    $duplicates[] = $corpAuthor;
}
if (!empty($duplicates)) {
    $secondaryAuthors = array_diff($secondaryAuthors, $duplicates);
}
$interface->assign('coreMainAuthor', $mainAuthor);
$interface->assign('coreCorporateAuthor', $corpAuthor);
$interface->assign('coreContributors', $secondaryAuthors);

// Assign only the first piece of summary data for the core; we'll get the
// rest as part of the extended data.
$summary = $this->getSummary();
$summary = count($summary) > 0 ? $summary[0] : null;
$interface->assign('coreSummary', $summary);

// Send back the template name:
return 'RecordDrivers/Index/core.tpl';
}

/**
 * Get an array of search results for other editions of the title
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* represented by this record (empty if unavailable). In most cases,
* this will use the XISSN/XISBN logic to find matches.
*
* @return mixed Editions in index engine result format (or null if no
* hits, or PEAR_Error object).
* @access public
*/
public function getEditions()
{
    include_once 'sys/WorldCatUtils.php';
    $wc = new WorldCatUtils();

    // Try to build an array of OCLC Number, ISBN or ISSN-based sub-queries:
    $parts = array();
    $oclcNum = $this->getCleanOCLCNum();
    if (!empty($oclcNum)) {
        $oclcList = $wc->getXOCLCNUM($oclcNum);
        foreach ($oclcList as $current) {
            $parts[] = "oclc_num:" . $current;
        }
    }
    $isbn = $this->getCleanISBN();
    if (!empty($isbn)) {
        $isbnList = $wc->getXISBN($isbn);
        foreach ($isbnList as $current) {
            $parts[] = 'isbn:' . $current;
        }
    }
    $issn = $this->getCleanISSN();
    if (!empty($issn)) {
        $issnList = $wc->getXISSN($issn);
        foreach ($issnList as $current) {
            $parts[] = 'issn:' . $current;
        }
    }

    // If we have query parts, we should try to find related records:
    if (!empty($parts)) {
        // Assemble the query parts and filter out current record:
        $query = '(' . implode(' OR ', $parts) . ') NOT id:' .
            $this->getUniqueID();

        // Perform the search and return either results or an error:
        $index = $this->getIndexEngine();
        $result = $index->search($query, null, null, 0, 5);
        if (PEAR::isError($result)) {
            return $result;
        }
        if (isset($result['response']['docs'])) {
            && !empty($result['response']['docs'])
        } {
            return $result['response']['docs'];
        }
    }

    // If we got this far, we were unable to find any results:
    return null;
}
```

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}

/**
 * Get the text to represent this record in the body of an email.
 *
 * @return string Text for inclusion in email.
 * @access public
 */
public function getEmail()
{
    return " " . $this->getTitle() . "\n";
}

/**
 * Get any excerpts associated with this record. For details of
 * the return format, see sys/Excerpts.php.
 *
 * @return array Excerpt information.
 * @access public
 */
public function getExcerpts()
{
    include_once 'sys/Excerpts.php';

    $ed = new ExternalExcerpts($this->getCleanISBN());
    return $ed->fetch();
}

/**
 * Assign necessary Smarty variables and return a template name to
 * load in order to export the record in the requested format. For
 * legal values, see getExportFormats(). Returns null if format is
 * not supported.
 *
 * @param string $format Export format to display.
 *
 * @return string      Name of Smarty template file to display.
 * @access public
 */
public function getExport($format)
{
    // Not currently supported for index-based records:
    return null;
}

/**
 * Get an array of strings representing formats in which this record's
 * data may be exported (empty if none). Legal values: "RefWorks",
 * "EndNote", "MARC", "RDF".
 *
 * @return array Strings representing export formats.
 * @access public
 */
public function getExportFormats()
{
    // No export formats currently supported for index-based records:
    return array();
}
```

```

}

/**
 * Assign necessary Smarty variables and return a template name to
 * load in order to display extended metadata (more details beyond
 * what is found in getCoreMetadata() -- used as the contents of the
 * Description tab of the record view).
 *
 * @return string Name of Smarty template file to display.
 * @access public
 */
public function getExtendedMetadata()
{
    global $interface;

    // Assign various values for display by the template; we'll prefix
    // everything with "extended" to avoid clashes with values assigned
    // elsewhere.
    $interface->assign('extendedDescription', $this->getDescription());
    $interface->assign('extendedSummary', $this->getSummary());
    $interface->assign('extendedAccess', $this->getAccessRestrictions());
    $interface->assign('extendedRelated', $this->getRelationshipNotes());
    $interface->assign('extendedNotes', $this->getGeneralNotes());
    $interface->assign('extendedDateSpan', $this->getDateSpan());
    $interface->assign('extendedISBNs', $this->getISBNs()); /* Zeile 424 ist für den
        Beschreibungsindex speziell für die ISBN */
    $interface->assign('extendedcallnumber', $this->getcallnumber()); /* Zeile 425 ist
        für den Beschreibungsindex speziell für die Signatur */

    $interface->assign('extendedISSNs', $this->getISSNs());
    $interface->assign('extendedPhysical', $this->getPhysicalDescriptions());
    $interface->assign('extendedFrequency', $this->getPublicationFrequency());
    $interface->assign('extendedPlayTime', $this->getPlayingTimes());
    $interface->assign('extendedSystem', $this->getSystemDetails());
    $interface->assign('extendedAudience', $this->getTargetAudienceNotes());
    $interface->assign('extendedAwards', $this->getAwards());
    $interface->assign('extendedCredits', $this->getProductionCredits());
    $interface->assign('extendedBibliography', $this->getBibliographyNotes());
    $interface->assign('extendedFindingAids', $this->getFindingAids());

    return 'RecordDrivers/Index/extended.tpl';
}

/**
 * Assign necessary Smarty variables and return a template name to
 * load in order to display holdings extracted from the base record
 * (i.e. URLs in MARC 856 fields) and, if necessary, the ILS driver.
 * Returns null if no data is available.
 *
 * @param array $patron An array of patron data
 *
 * @return string Name of Smarty template file to display.
 * @access public
 */
public function getHoldings($patron = false)
{
    global $interface;
    global $configArray;

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$interface->assign('extendedISBNs', $this->getISBNs());

if ("driver" == CatalogConnection::getHoldsMode()) {
    $interface->assign('driverMode', true);
    if (!UserAccount::isLoggedIn()) {
        $interface->assign('showLoginMsg', true);
    }
}

// Only display OpenURL link if the option is turned on and we have
// an ISSN. We may eventually want to make this rule more flexible,
// but for now the ISSN restriction is designed to be consistent with
// the way we display items on the search results list.
$hasOpenURL = ($this->openURLActive('holdings') && $this->getCleanISSN());
if ($hasOpenURL) {
    $interface->assign('holdingsOpenURL', $this->getOpenURL());
}

// Display regular URLs unless OpenURL is present and configured to
// replace them:
if (!isset($configArray['OpenURL']['replace_other_urls'])
    || !$configArray['OpenURL']['replace_other_urls'] || !$hasOpenURL)
{
    $interface->assign('holdingURLs', $this->getURLs());
}
$interface->assign('holdingLCCN', $this->getLCCN());
$interface->assign('holdingArrOCLC', $this->getOCLC());

// Load real-time data if available:
$interface->assign('holdings', $this->getRealTimeHoldings($patron));
$interface->assign('history', $this->getRealTimeHistory());

return 'RecordDrivers/Index/holdings.tpl';
}

/**
 * Assign necessary Smarty variables and return a template name to
 * load in order to display a summary of the item suitable for use in
 * user's favorites list.
 *
 * @param object $user      User object owning tag/note metadata.
 * @param int    $listId    ID of list containing desired tags/notes (or null
 * to show tags/notes from all user's lists).
 * @param bool   $allowEdit Should we display edit controls?
 *
 * @return string           Name of Smarty template file to display.
 * @access public
 */
public function getListEntry($user, $listId = null, $allowEdit = true)
{
    global $interface;

    // Extract bibliographic metadata from the record:
    $id = $this->getUniqueID();
    $interface->assign('listId', $id);
    $interface->assign('listFormats', $this->getFormats());
    $interface->assign('listTitle', $this->getTitle());
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$interface->assign('listAuthor', $this->getPrimaryAuthor());
$interface->assign('listThumb', $this->getThumbnail());

// Extract user metadata from the database:
$notes = array();
$data = $user->getSavedData($id, $listId);
foreach ($data as $current) {
    if (!empty($current->notes)) {
        $notes[] = $current->notes;
    }
}
$interface->assign('listNotes', $notes);
$interface->assign('listTags', $user->getTags($id, $listId));

// Pass some parameters along to the template to influence edit controls:
$interface->assign('listSelected', $listId);
$interface->assign('listEditAllowed', $allowEdit);

return 'RecordDrivers/Index/listentry.tpl';
}

/**
 * Get the OpenURL parameters to represent this record (useful for the
 * title attribute of a COinS span tag).
 *
 * @return string OpenURL parameters.
 * @access public
 */
public function getOpenURL()
{
    // Get the COinS ID -- it should be in the OpenURL section of config.ini,
    // but we'll also check the COinS section for compatibility with legacy
    // configurations (this moved between the RC2 and 1.0 releases).
    global $configArray;
    $coinsID = isset($configArray['OpenURL']['rfr_id']) ?
        $configArray['OpenURL']['rfr_id'] :
        $configArray['COinS']['identifier'];
    if (empty($coinsID)) {
        $coinsID = 'vufind.svn.sourceforge.net';
    }

    // Get a representative publication date:
    $pubDate = $this->getPublicationDates();
    $pubDate = empty($pubDate) ? '' : $pubDate[0];

    // Start an array of OpenURL parameters:
    $params = array(
        'ctx_ver' => 'Z39.88-2004',
        'ctx_enc' => 'info:ofi/enc:UTF-8',
        'rfr_id' => "info:sid/{$coinsID}:generator",
        'rft.title' => $this->getTitle(),
        'rft.date' => $pubDate
    );
    // Add additional parameters based on the format of the record:
    $formats = $this->getFormats();
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// If we have multiple formats, Book and Journal are most important...
if (in_array('Book', $formats)) {
    $format = 'Book';
} else if (in_array('Journal', $formats)) {
    $format = 'Journal';
} else {
    $format = $formats[0];
}

switch($format) {
case 'Book':
    $params['rft_val_fmt'] = 'info:ofi/fmt:kev:mtx:book';
    $params['rft.genre'] = 'book';
    $params['rft.btitle'] = $params['rft.title'];
    $series = $this->getSeries();
    if (count($series) > 0) {
        // Handle both possible return formats of getSeries:
        $params['rft.series'] = is_array($series[0]) ?
            $series[0]['name'] : $series[0];
    }
    $params['rft.au'] = $this->getPrimaryAuthor();
    $publishers = $this->getPublishers();
    if (count($publishers) > 0) {
        $params['rft.pub'] = $publishers[0];
    }
    $params['rft.edition'] = $this->getEdition();
    $params['rft.isbn'] = $this->getCleanISBN();
    break;

case 'Journal':
    /* This is probably the most technically correct way to represent
     * a journal run as an OpenURL; however, it doesn't work well with
     * Zotero, so it is currently commented out -- instead, we just add
     * some extra fields and then drop through to the default case.
    $params['rft_val_fmt'] = 'info:ofi/fmt:kev:mtx:journal';
    $params['rft.genre'] = 'journal';
    $params['rft.jtitle'] = $params['rft.title'];
    $params['rft.issn'] = $this->getCleanISSN();
    $params['rft.au'] = $this->getPrimaryAuthor();
    break;
    */
    $params['rft.issn'] = $this->getCleanISSN();

    // Including a date in a title-level Journal OpenURL may be too
    // limiting -- in some link resolvers, it may cause the exclusion
    // of databases if they do not cover the exact date provided!
    unset($params['rft.date']);

    // If we're working with the SFX resolver, we should add a
    // special parameter to ensure that electronic holdings links
    // are shown even though no specific date or issue is specified:
    if (isset($configArray['OpenURL']['resolver']))
        && strtolower($configArray['OpenURL']['resolver']) == 'sfx'
    ) {
        $params['sfx.ignore_date_threshold'] = 1;
    }

default:
    $params['rft_val_fmt'] = 'info:ofi/fmt:kev:mtx:dc';
    $params['rft.creator'] = $this->getPrimaryAuthor();
```

```
$publishers = $this->getPublishers();
if (count($publishers) > 0) {
    $params['rft.pub'] = $publishers[0];
}
$params['rft.format'] = $format;
$langs = $this->getLanguages();
if (count($langs) > 0) {
    $params['rft.language'] = $langs[0];
}
break;
}

// Assemble the URL:
$parts = array();
foreach ($params as $key => $value) {
    $parts[] = $key . '=' . urlencode($value);
}
return implode('&', $parts);
}

/**
 * Get an XML RDF representation of the data in this record.
 *
 * @return mixed XML RDF data (false if unsupported or error).
 * @access public
 */
public function getRDFXML()
{
    // Not supported.
    return false;
}

/**
 * Get any reviews associated with this record. For details of
 * the return format, see sys/Reviews.php.
 *
 * @return array Review information.
 * @access public
 */
public function getReviews()
{
    include_once 'sys/Reviews.php';

    $rev = new ExternalReviews($this->getCleanISBN());
    return $rev->fetch();
}

/**
 * Assign necessary Smarty variables and return a template name for the current
 * view to load in order to display a summary of the item suitable for use in
 * search results.
 *
 * @param string $view The current view.
 *
 * @return string      Name of Smarty template file to display.
 * @access public
 */

```

```
public function getSearchResult($view = 'list')
{
    global $configArray;
    global $interface;

    /** $interface->assign('summAltTitle', $this->getAltTitle()); */
    $interface->assign('summId', $this->getUniqueID());
    $interface->assign('summFormats', $this->getFormats());
    $interface->assign('summHighlightedTitle', $this->getHighlightedTitle());
    $interface->assign('summTitle', $this->getTitle());
    $interface->assign('summHighlightedAuthor', $this->getHighlightedAuthor());
    $interface->assign('summAuthor', $this->getPrimaryAuthor());
    $interface->assign('summDate', $this->getPublicationDates());
    $interface->assign('summISBN', $this->getCleanISBN());
    $interface->assign('summThumb', $this->getThumbnail());
    $interface->assign('summThumbLarge', $this->getThumbnail('large'));
    $issn = $this->getCleanISSN();
    $interface->assign('summISSN', $issn);
    $interface->assign('summLCCN', $this->getLCCN());
    $interface->assign('summOCLC', $this->getOCLC());
    $interface->assign('summCallNo', $this->getCallNumber());

    // Obtain and assign snippet information:
    $snippet = $this->getHighlightedSnippet();
    $interface->assign(
        'summSnippetCaption', $snippet ? $snippet['caption'] : false
    );
    $interface->assign('summSnippet', $snippet ? $snippet['snippet'] : false);

    // Only display OpenURL link if the option is turned on and we have
    // an ISSN. We may eventually want to make this rule more flexible,
    // but for now the ISSN restriction is designed to be consistent with
    // the way we display items on the search results list.
    $hasOpenURL = ($this->openURLActive('results') && $issn);
    $openURL = $this->getOpenURL();
    $interface->assign('summOpenUrl', $hasOpenURL ? $openURL : false);

    // Always provide an OpenURL for COinS purposes:
    $interface->assign('summCOinS', $openURL);

    // Display regular URLs unless OpenURL is present and configured to
    // replace them:
    if (!isset($configArray['OpenURL'])['replace_other_urls'])
        || !$configArray['OpenURL']['replace_other_urls'] || !$hasOpenURL
    ) {
        $interface->assign('summURLs', $this->getURLs());
    } else {
        $interface->assign('summURLs', array());
    }

    // By default, do not display AJAX status; we won't assume that all
    // records exist in the ILS. Child classes can override this setting
    // to turn on AJAX as needed:
    $interface->assign('summAjaxStatus', false);

    // Send back the template to display:
    return 'RecordDrivers/Index/result-' . $view . '.tpl';
}
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}

/**
 * Assign necessary Smarty variables and return a template name to
 * load in order to display the full record information on the Staff
 * View tab of the record view page.
 *
 * @return string Name of Smarty template file to display.
 * @access public
 */
public function getStaffView()
{
    global $interface;
    $interface->assign('details', $this->fields);
    return 'RecordDrivers/Index/staff.tpl';
}

/**
 * Assign necessary Smarty variables and return a template name to
 * load in order to display the Table of Contents extracted from the
 * record. Returns null if no Table of Contents is available.
 *
 * @return string Name of Smarty template file to display.
 * @access public
 */
public function getTOC()
{
    global $interface;

    if (!$this->hasTOC()) {
        return null;
    }

    $interface->assign('toc', $this->fields['contents']);
    return 'RecordDrivers/Index/toc.tpl';
}

/**
 * Return the unique identifier of this record within the Solr index;
 * useful for retrieving additional information (like tags and user
 * comments) from the external MySQL database.
 *
 * @return string Unique identifier.
 * @access public
 */
public function getUniqueID()
{
    return $this->fields['id'];
}

/**
 * Return an XML representation of the record using the specified format.
 * Return false if the format is unsupported.
 *
 * @param string $format Name of format to use (corresponds with OAI-PMH
 * metadataPrefix parameter).
 */

```

```
* @return mixed           XML, or false if format unsupported.
* @access public
*/
public function getXML($format)
{
    global $interface;

    // For OAI-PMH Dublin Core, use the core metadata fields with a different
    // template to produce the necessary XML:
    if ($format == 'oai_dc') {
        $this->getCoreMetadata();
        $interface->assign('oaiFullTitle', $this->getTitle());
        $interface->assign('oaiPublishers', $this->getPublishers());
        $interface->assign('oaiPubDates', $this->getPublicationDates());
        return $interface->fetch('RecordDrivers/Index/oai_dc.tpl');
    }

    // Unsupported format:
    return false;
}

/**
 * Does this record have audio content available?
 *
 * @return bool
 * @access public
 */
public function hasAudio()
{
    /* Audio is not supported yet.
     */
    return false;
}

/**
 * Does this record have an excerpt available?
 *
 * @return bool
 * @access public
 */
public function hasExcerpt()
{
    // If we have ISBN(s), we might have reviews:
    $isbns = $this->getISBNs();
    return !empty($isbns);
}

/**
 * Does this record have searchable full text in the index?
 *
 * Note: As of this writing, searchable full text is not a VuFind feature,
 *       but this method will be useful if/when it is eventually added.
 *
 * @return bool
 * @access public
 */
public function hasFullText()
```

```
{  
    /* Full text is not supported yet.  
     */  
    return false;  
}  
  
/**  
 * Does this record have image content available?  
 *  
 * @return bool  
 * @access public  
 */  
public function hasImages()  
{  
    // Images are not supported yet.  
    return false;  
}  
  
/**  
 * Does this record support an RDF representation?  
 *  
 * @return bool  
 * @access public  
 */  
public function hasRDF()  
{  
    // No RDF for Solr-based entries yet.  
    return false;  
}  
  
/**  
 * Does this record have reviews available?  
 *  
 * @return bool  
 * @access public  
 */  
public function hasReviews()  
{  
    // If we have ISBN(s), we might have reviews:  
    $isbns = $this->getISBNs();  
    return !empty($isbns);  
}  
  
/**  
 * Does this record have a Table of Contents available?  
 *  
 * @return bool  
 * @access public  
 */  
public function hasTOC()  
{  
    // Do we have a table of contents stored in the index?  
    return (isset($this->fields['contents'])) &&  
        count($this->fields['contents']) > 0;  
}  
**/
```

```
* Does this record have video content available?  
*  
* @return bool  
* @access public  
*/  
public function hasVideo()  
{  
    /* Video is not supported yet.  
     */  
    return false;  
}  
  
/**  
 * Assign a tag list to the interface based on the current unique ID.  
 *  
 * @return void  
* @access protected  
*/  
  
protected function getAltTitle()  
{  
    return isset($this->fields['title_alt']) ?  
        $this->fields['title_alt'] : '';  
}  
  
protected function assignTagList()  
{  
    global $interface;  
  
    // Retrieve tags associated with the record  
    $resource = new Resource();  
    $resource->record_id = $this->getUniqueID();  
    $resource->source = 'VuFind';  
    $tags = $resource->getTags();  
    $interface->assign('tagList', is_array($tags) ? $tags : array());  
}  
  
/**  
 * Get access restriction notes for the record.  
 *  
 * @return array  
* @access protected  
*/  
protected function getAccessRestrictions()  
{  
    // Not currently stored in the Solr index  
    return array();  
}  
  
/**  
 * Get all subject headings associated with this record. Each heading is  
 * returned as an array of chunks, increasing from least specific to most  
 * specific.  
 *  
 * @return array  
* @access protected  
*/
```

```

protected function getAllSubjectHeadings()
{
    $topic = isset($this->fields['topic']) ? $this->fields['topic'] : array();
    $geo = isset($this->fields['geographic']) ?
        $this->fields['geographic'] : array();
    $genre = isset($this->fields['genre']) ? $this->fields['genre'] : array();

    // The Solr index doesn't currently store subject headings in a broken-down
    // format, so we'll just send each value as a single chunk. Other record
    // drivers (i.e. MARC) can offer this data in a more granular format.
    $retval = array();
    foreach ($topic as $t) {
        $retval[] = array($t);
    }
    foreach ($geo as $g) {
        $retval[] = array($g);
    }
    foreach ($genre as $g) {
        $retval[] = array($g);
    }

    return $retval;
}

protected function getAllRecordLinks()
{
    return null;
}

protected function getAwards()
{
    // Not currently stored in the Solr index
}

```

```
    return array();
}

/**
 * Get notes on bibliography content.
 *
 * @return array
 * @access protected
 */
protected function getBibliographyNotes()
{
    // Not currently stored in the Solr index
    return array();
}

/**
 * Get the call number associated with the record (empty string if none).
 *
 * @return string
 * @access protected
 */
protected function getCallNumber()
{
    // Use the callnumber-a field from the Solr index; the plain callnumber
    // field is normalized to have no spaces, so it is unsuitable for display.
    return isset($this->fields['callnumber-a']) ?
        $this->fields['callnumber-a'] : '';
}

/**
 * Return the first valid ISBN found in the record (favoring ISBN-10 over
 * ISBN-13 when possible).
 *
 * @return mixed
 * @access protected
 */
protected function getCleanISBN()
{
    include_once 'sys/ISBN.php';

    // Get all the ISBNs and initialize the return value:
    $isbns = $this->getISBNs();
    $isbn13 = false;

    // Loop through the ISBNs:
    foreach ($isbns as $isbn) {
        // Strip off any unwanted notes:
        if ($pos = strpos($isbn, ' ')) {
            $isbn = substr($isbn, 0, $pos);
        }

        // If we find an ISBN-10, return it immediately; otherwise, if we find
        // an ISBN-13, save it if it is the first one encountered.
        $isbnObj = new ISBN($isbn);
        if ($isbn10 = $isbnObj->get10()) {
            return $isbn10;
        }
    }
}
```

```
    if (!isbn13) {
        $isbn13 = $isbnObj->get13();
    }
}

return $isbn13;
}

/***
 * Get just the base portion of the first listed ISSN (or false if no ISSNs).
 *
 * @return mixed
 * @access protected
 */
protected function getCleanISSN()
{
    $issns = $this->getISSNs();
    if (empty($issns)) {
        return false;
    }
    $issn = $issns[0];
    if ($pos = strpos($issn, ' ')) {
        $issn = substr($issn, 0, $pos);
    }
    return $issn;
}

/***
 * Get just the first listed OCLC Number (or false if none available).
 *
 * @return mixed
 * @access protected
 */
protected function getCleanOCLCNum()
{
    $nums = $this->getOCLC();
    return empty($nums) ? false : $nums[0];
}

/***
 * Get the main corporate author (if any) for the record.
 *
 * @return string
 * @access protected
 */
protected function getCorporateAuthor()
{
    // Not currently stored in the Solr index
    return null;
}

/***
 * Get the date coverage for a record which spans a period of time (i.e. a
 * journal). Use getPublicationDates for publication dates of particular
 * monographic items.
 *
 * @return array
 * @access protected
*/
```

```
/*
protected function getDateSpan()
{
    return isset($this->fields['dateSpan']) ? 
        $this->fields['dateSpan'] : array();
}

/***
 * Get the edition of the current record.
 *
 * @return string
 * @access protected
 */
protected function getEdition()
{
    return isset($this->fields['edition']) ? 
        $this->fields['edition'] : '';
}

/***
 * Get notes on finding aids related to the record.
 *
 * @return array
 * @access protected
 */
protected function getFindingAids()
{
    // Not currently stored in the Solr index
    return array();
}

/***
 * Get an array of all the formats associated with the record.
 *
 * @return array
 * @access protected
 */
protected function getFormats()
{
    return isset($this->fields['format']) ? $this->fields['format'] : array();
}

/***
 * Get general notes on the record.
 *
 * @return array
 * @access protected
 */
protected function getGeneralNotes()
{
    // Not currently stored in the Solr index
    return array();
}

/***
 * Get a highlighted author string, if available.
 *
 */
```

```
* @return string
* @access protected
*/
protected function getHighlightedAuthor()
{
    // Don't check for highlighted values if highlighting is disabled:
    if (!$this->highlight) {
        return '';
    }
    return (isset($this->fields['_highlighting']['author'][0]))
        ? $this->fields['_highlighting']['author'][0] : '';
}

/**
 * Given a Solr field name, return an appropriate caption.
 *
 * @param string $field Solr field name
 *
 * @return mixed      Caption if found, false if none available.
 * @access protected
*/
protected function getSnippetCaption($field)
{
    return isset($this->snippetCaptions[$field])
        ? $this->snippetCaptions[$field] : false;
}

/**
 * Pick one line from the highlighted text (if any) to use as a snippet.
 *
 * @return mixed False if no snippet found, otherwise associative array
 * with 'snippet' and 'caption' keys.
 * @access protected
*/
protected function getHighlightedSnippet()
{
    // Only process snippets if the setting is enabled:
    if ($this->snippet) {
        // First check for preferred fields:
        foreach ($this->preferredSnippetFields as $current) {
            if (isset($this->fields['_highlighting'][$current][0])) {
                return array(
                    'snippet' => $this->fields['_highlighting'][$current][0],
                    'caption' => $this->getSnippetCaption($current)
                );
            }
        }

        // No preferred field found, so try for a non-forbidden field:
        if (is_array($this->fields['_highlighting'])) {
            foreach ($this->fields['_highlighting'] as $key => $value) {
                if (!in_array($key, $this->forbiddenSnippetFields)) {
                    return array(
                        'snippet' => $value[0],
                        'caption' => $this->getSnippetCaption($key)
                    );
                }
            }
        }
    }
}
```

```
        }

    }

    // If we got this far, no snippet was found:
    return false;
}

/***
 * Get a highlighted title string, if available.
 *
 * @return string
 * @access protected
 */
protected function getHighlightedTitle()
{
    // Don't check for highlighted values if highlighting is disabled:
    if (!$this->highlight) {
        return '';
    }
    return (isset($this->fields['_highlighting']['title'][0])) ?
        $this->fields['_highlighting']['title'][0] : '';
}

/***
 * Get the index engine to do a follow-up query.
 *
 * @return object
 * @access protected
 */
protected function getIndexEngine()
{
    // Build the index engine if we don't already have one:
    if (!$this->index) {
        $this->index = ConnectionManager::connectToIndex();
    }

    return $this->index;
}

/***
 * Get an array of all ISBNs associated with the record (may be empty).
 *
 * @return array
 * @access protected
 */
protected function getISBNs()
{
    // If ISBN is in the index, it should automatically be an array... but if
    // it's not set at all, we should normalize the value to an empty array.
    return isset($this->fields['isbn']) && is_array($this->fields['isbn']) ?
        $this->fields['isbn'] : array();
}

/***
 * Get an array of all ISSNs associated with the record (may be empty).
 *
```

```
* @return array
* @access protected
*/
protected function getISSNs()
{
    // If ISSN is in the index, it should automatically be an array... but if
    // it's not set at all, we should normalize the value to an empty array.
    return isset($this->fields['issn']) && is_array($this->fields['issn']) ?
        $this->fields['issn'] : array();
}

/**
 * Get an array of all the languages associated with the record.
 *
 * @return array
 * @access protected
*/
protected function getLanguages()
{
    return isset($this->fields['language']) ?
        $this->fields['language'] : array();
}

/**
 * Get an array of newer titles for the record.
 *
 * @return array
 * @access protected
*/
protected function getNewerTitles()
{
    return isset($this->fields['title_new']) ?
        $this->fields['title_new'] : array();
}

/**
 * Get an array of physical descriptions of the item.
 *
 * @return array
 * @access protected
*/
protected function getPhysicalDescriptions()
{
    return isset($this->fields['physical']) ?
        $this->fields['physical'] : array();
}

/**
 * Get the item's place of publication.
 *
 * @return array
 * @access protected
*/
protected function getPlacesOfPublication()
{
    // Not currently stored in the Solr index
    return array();
}
```

```
}

/**
 * Get an array of playing times for the record (if applicable).
 *
 * @return array
 * @access protected
 */
protected function getPlayingTimes()
{
    // Not currently stored in the Solr index
    return array();
}

/**
 * Get an array of previous titles for the record.
 *
 * @return array
 * @access protected
 */
protected function getPreviousTitles()
{
    return isset($this->fields['title_old']) ? $this->fields['title_old'] : array();
}

/**
 * Get the main author of the record.
 *
 * @return string
 * @access protected
 */
protected function getPrimaryAuthor()
{
    return isset($this->fields['author']) ? $this->fields['author'] : '';
}

/**
 * Get credits of people involved in production of the item.
 *
 * @return array
 * @access protected
 */
protected function getProductionCredits()
{
    // Not currently stored in the Solr index
    return array();
}

/**
 * Get the publication dates of the record. See also getDateSpan().
 *
 * @return array
 * @access protected
 */
protected function getPublicationDates()
```

```
{  
    return isset($this->fields['publishDate']) ?  
        $this->fields['publishDate'] : array();  
}  
  
/**  
 * Get an array of publication detail lines combining information from  
 * getPublicationDates(), getPublishers() and getPlacesOfPublication().  
 *  
 * @return array  
 * @access protected  
 */  
protected function getPublicationDetails()  
{  
    $places = $this->getPlacesOfPublication();  
    $names = $this->getPublishers();  
    $dates = $this->getPublicationDates();  
  
    $i = 0;  
    $retval = array();  
    while (isset($places[$i]) || isset($names[$i]) || isset($dates[$i])) {  
        // Put all the pieces together, and do a little processing to clean up  
        // unwanted whitespace.  
        $retval[] = trim(  
            str_replace(  
                ' ', ' ',  
                ((isset($places[$i]) ? $places[$i] . ' ' : '') .  
                 (isset($names[$i]) ? $names[$i] . ' ' : '') .  
                 (isset($dates[$i]) ? $dates[$i] : ''))  
            )  
        );  
        $i++;  
    }  
  
    return $retval;  
}  
  
/**  
 * Get an array of publication frequency information.  
 *  
 * @return array  
 * @access protected  
 */  
protected function getPublicationFrequency()  
{  
    // Not currently stored in the Solr index  
    return array();  
}  
  
/**  
 * Get the publishers of the record.  
 *  
 * @return array  
 * @access protected  
 */  
protected function getPublishers()  
{
```

```
    return isset($this->fields['publisher']) ?  
        $this->fields['publisher'] : array();  
    }  
  
    /**  
     * Get an array of information about record history, obtained in real-time  
     * from the ILS.  
     *  
     * @return array  
     * @access protected  
     */  
    protected function getRealTimeHistory()  
{  
    // Not supported by the Solr index -- implement in child classes.  
    return array();  
}  
  
    /**  
     * Get an array of information about record holdings, obtained in real-time  
     * from the ILS.  
     *  
     * @param array $patron An array for patron information  
     *  
     * @return array  
     * @access protected  
     */  
    protected function getRealTimeHoldings($patron = false)  
{  
    // Not supported by the Solr index -- implement in child classes.  
    return array();  
}  
  
    /**  
     * Get an array of strings describing relationships to other items.  
     *  
     * @return array  
     * @access protected  
     */  
    protected function getRelationshipNotes()  
{  
    // Not currently stored in the Solr index  
    return array();  
}  
  
    /**  
     * Get an array of all secondary authors (complementing getPrimaryAuthor()).  
     *  
     * @return array  
     * @access protected  
     */  
    protected function getSecondaryAuthors()  
{  
    return isset($this->fields['author2']) ?  
        $this->fields['author2'] : array();  
}  
    /**
```

```
* Get an array of all series names containing the record. Array entries may
* be either the name string, or an associative array with 'name' and 'number'
* keys.
*
* @return array
* @access protected
*/
protected function getSeries()
{
    // Only use the contents of the series2 field if the series field is empty
    if (isset($this->fields['series']) && !empty($this->fields['series'])) {
        return $this->fields['series'];
    }
    return isset($this->fields['series2']) ?
        $this->fields['series2'] : array();
}

/**
 * Get the short (pre-subtitle) title of the record.
*
* @return string
* @access protected
*/
protected function getShortTitle()
{
    return isset($this->fields['title_short']) ?
        $this->fields['title_short'] : '';
}

/**
 * Get the description of the record.
*
* @return string
* @access protected
*/
protected function getDescription()
{
    return isset($this->fields['description']) ?
        $this->fields['description'] : '';
}

/**
 * Get the subtitle of the record.
*
* @return string
* @access protected
*/
protected function getSubtitle()
{
    return isset($this->fields['title_sub']) ?
        $this->fields['title_sub'] : '';
}

/**
 * Get an array of technical details on the item represented by the record.
*
* @return array
*/
```

```
* @access protected
*/
protected function getSystemDetails()
{
    // Not currently stored in the Solr index
    return array();
}

/***
 * Get an array of summary strings for the record.
 *
 * @return array
 * @access protected
 */
protected function getSummary()
{
    // Not currently stored in the Solr index
    return array();
}

/***
 * Get an array of note about the record's target audience.
 *
 * @return array
 * @access protected
 */
protected function getTargetAudienceNotes()
{
    // Not currently stored in the Solr index
    return array();
}

/***
 * Get the full title of the record.
 *
 * @return string
 * @access protected
 */
protected function getTitle()
{
    return isset($this->fields['title']) ?
        $this->fields['title'] : '';
}

/***
 * Get the text of the part/section portion of the title.
 *
 * @return string
 * @access protected
 */
protected function getTitleSection()
{
    // Not currently stored in the Solr index
    return null;
}

/***
```

```
* Get the statement of responsibility that goes with the title (i.e. "by John
* Smith").
*
* @return string
* @access protected
*/
protected function getTitleStatement()
{
    // Not currently stored in the Solr index
    return null;
}

/**
* Return an associative array of URLs associated with this record (key = URL,
* value = description).
*
* @return array
* @access protected
*/
protected function getURLs()
{
    $urls = array();
    if (isset($this->fields['url']) && is_array($this->fields['url'])) {
        foreach ($this->fields['url'] as $url) {
            // The index doesn't contain descriptions for URLs, so we'll just
            // use the URL itself as the description.
            $urls[$url] = $url;
        }
    }
    return $urls;
}

/**
* Does the OpenURL configuration indicate that we should display OpenURLs in
* the specified context?
*
* @param string $area 'results', 'record' or 'holdings'
*
* @return bool
* @access protected
*/
protected function openURLActive($area)
{
    global $configArray;

    // Doesn't matter the target area if no OpenURL resolver is specified:
    if (!isset($configArray['OpenURL']['url'])) {
        return false;
    }

    // If a setting exists, return that:
    if (isset($configArray['OpenURL']['show_in_' . $area])) {
        return $configArray['OpenURL']['show_in_' . $area];
    }

    // If we got this far, use the defaults -- true for results, false for
    // everywhere else.
```

```
    return ($area == 'results');
}

/**
 * Get a LCCN, normalised according to info:lccn
 *
 * @return string
 * @access protected
 */
protected function getLCCN()
{
    // Get LCCN from Index
    $raw = isset($this->fields['lccn']) ? $this->fields['lccn'] : '';

    // Remove all blanks.
    $raw = preg_replace('{{[\t]+}}', ' ', $raw);

    // If there is a forward slash (/) in the string, remove it, and remove all
    // characters to the right of the forward slash.
    if (strpos($raw, '/') > 0) {
        $tmpArray = explode("/", $raw);
        $raw = $tmpArray[0];
    }
    /* If there is a hyphen in the string:
     * a. Remove it.
     * b. Inspect the substring following (to the right of) the (removed)
     *     hyphen. Then (and assuming that steps 1 and 2 have been carried out):
     *         i. All these characters should be digits, and there should be
     *             six or less.
     *         ii. If the length of the substring is less than 6, left-fill the
     *             substring with zeros until the length is six.
    */
    if (strpos($raw, '-') > 0) {
        // haven't checked for i. above. If they aren't all digits, there is
        // nothing that can be done, so might as well leave it.
        $tmpArray = explode("-", $raw);
        $raw = $tmpArray[0] . str_pad($tmpArray[1], 6, "0", STR_PAD_LEFT);
    }
    return $raw;
}

/**
 * Get the OCLC number of the record.
 *
 * @return array
 * @access protected
 */
protected function getOCLC()
{
    return isset($this->fields['oclc_num']) ?
        $this->fields['oclc_num'] : array();
}

/**
 * Return a URL to a thumbnail preview of the record, if available; false
 * otherwise.
 */
```

```
* @param array $size Size of thumbnail (small, medium or large -- small is
* default).
*
* @return mixed
* @access protected
*/
protected function getThumbnail($size = 'small')
{
    global $configArray;

    if ($isbn = $this->getCleanISBN()) {
        return $configArray['Site']['url'] . '/bookcover.php?isbn=' .
            urlencode($isbn) . '&size=' . urlencode($size);
    }
    return false;
}
}

?>
```