

MediaWiki



History and overview

Tim Starling Nairobi 2024



___TOC___

- MediaWiki origins and history
- The impacts of early decisions
- MediaWiki today
- The future

About me

- 2002: Bachelor of Science (Physics)
- October 2002: Started editing Wikipedia
- 2004-2005: Very active volunteer developer
- April 2006: Hired by WMF
- Now Principal Software Architect reporting to Runa and working with CommTech

MediaWiki Origins and History

UseModWiki

- Initial release October 2000
- Wikipedia launched using this engine, January 2001
- Flat file database
- Camel case links

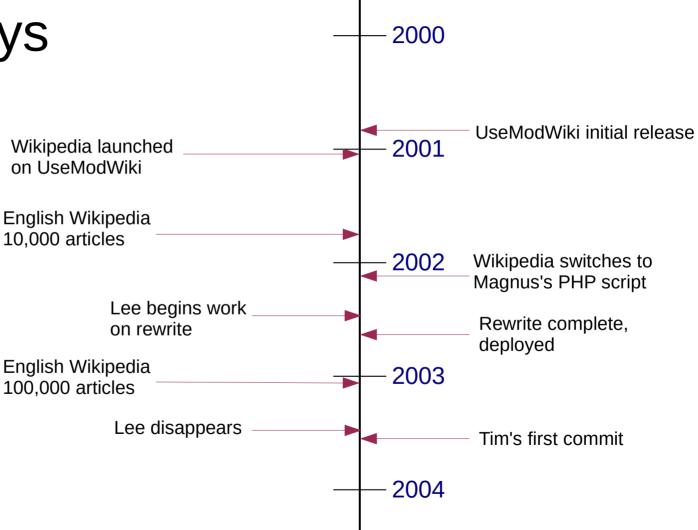
Phase II

- Magnus Manske wrote a new engine for in PHP, deployed in November 2001.
- "The Wikipedia PHP script" later referred to as Phase II
- MySQL backend
- Introduced skins, special pages

Phase 3

- Lee Daniel Crocker rewrote Wikipedia's engine in mid 2002
- Introduced namespaces, deprecated subpages
- Renamed "MediaWiki" in 2003

Heady Days



HomePage

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Welcome to WikiPedia! We're writing a complete encyclopedia from scratch, collaboratively. We started work in January 2001. We've got over 1,000 pages already. We want to make over 100,000. So, let's get to work! Write a little (or a lot) about what you know!



Some questions you might have are answered below, but why not first explore a few links?

```
PhiloSophy -- MathematicsAndStatistics -- ScienCe -- PhysIcs -- BiologicalSciences -- AstroNomy -- ChemIstry? -- BioChemistry -- MolecularBiology? -- BotAny? -- ZooLogy? -- EarthSciences?

CountriesOfTheWorld -- HiStory -- LinguisticS & LanguagE -- PoLitics -- EconomicS -- AnthropOlogy? -- ArchaeOlogy? -- PsychOlogy? -- SociOlogy? -- HistoryOfScienceAndTechnology? -- AnomalousPhenomena?

TechnologY -- ArchitecturE -- EngineerIng -- ComputinG -- TransporT -- BusinessAndIndustry -- BusinessAndEconomics -- TheLaw -- AgriculturalScience? -- EduCation -- CommunicAtion? -- LibraryAndInformationScience? -- HealthSciences? -- FamilyAndConsumerScience? -- PublicAffairs? -- HumanComputerInteraction (this link should be moved when the Lewis and Clark class is done with it)

ArtsandEntertainment -- MuSic -- DanCe -- FiLm -- LiteraryArt -- ReLigion -- ReCreation -- SportS -- ClassIcs? -- CriticalTheory? -- VisualArtsAndDesign -- PaintIng -- SculpTure? -- PerformingArts? -- TheaterAndDrama? -- GameS? -- HobbieS? -- TourIsm?
```

The above reflects only one of WikiPedia's CategorySchemes.

Want to learn about something? Add the topic to our list of <u>RequestedArticles</u>.

You're wondering

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From Wikipedia, the free encyclopedia.

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WIKIPEDIA

The Free Encyclopedia

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<u>Welcome</u> to <u>Wikipedia</u>, a collaborative project to produce a complete encyclopedia from scratch. We started in January 2001 and already have about 30,000 articles. We want to make over 100,000, so let's get to work--with few exceptions, *anyone* can edit any article--copyedit, expand an article, write a little, write a lot. See the <u>Wikipedia FAQ</u> for information on how to edit pages and other questions.

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Current events and breaking news

Encyclopedia articles about the topics behind the news.

<u>Current events</u> - <u>Israeli-Palestinian conflict</u> - <u>Kyoto Protocol</u> - <u>Mars Odyssey</u> - <u>Kashmir</u> - <u>Football World Cup 2002</u>

Philosophy, Mathematics, and Natural Science

<u>Astronomy and astrophysics</u> - <u>Biology</u> - <u>Chemistry</u> - <u>Earth science</u> - <u>Mathematics</u> - <u>Philosophy</u> - <u>Physics</u> - <u>Statistics</u>

Social Sciences

<u>Anthropology</u> - <u>Archaeology</u> - <u>Economics</u> - <u>Geography</u> - <u>History</u> - <u>History</u> of <u>science</u> and <u>technology</u> - <u>Language</u> - <u>Linguistics</u> - <u>political science</u> - <u>Psychology</u> - <u>Sociology</u>

Annlied Arts and Sciences

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June 7, 2002

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WIKIPEDIA

The Free Encyclopedia

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Main Page

From Wikipedia, the free encyclopedia.

Welcome to Wikipedia, a collaborative project to produce a complete encyclopedia from scratch. We started in January 2001 and are already working on 52364 articles (in the English version), with more being added and improved all the time. Anyone, including you, can edit any article right now, without even having to log in. You can copyedit, expand an article, write a little or write a lot. See the Wikipedia FAQ for more background information about the project, and the help page for information on how to use and contribute to Wikipedia.

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Current events

<u>Current events</u> - <u>Israeli-Palestinian conflict</u> - <u>West Nile virus</u> - <u>Bruce Paltrow</u> - <u>Sputnik I</u> - <u>John Walker Lindh</u> - Claus von Amsberg - Bertrand Delanoë - Quaoar - Nobel Prize

Philosophy, Mathematics, and Natural Science

<u>Astronomy and astrophysics</u> - <u>Biology</u> - <u>Chemistry</u> - <u>Earth science</u> - <u>Mathematics</u> - <u>Philosophy</u> - <u>Physics</u> - <u>Statistics</u>

Line counts

UseModWiki 0.92	3,800
Phase 2 (final)	6,200
Phase 3 (May 2003)	17,600
MediaWiki core (January 2024)	800,000

cloc non-blank non-comment excluding localisation and data files

UseModWiki

```
sub UpdateLinksList {
 mv ($commandList, $doRC, $doText) = @_;
 if ($doText) {
   &BuildLinkIndex();
 &RequestLock() or die "UpdateLinksList could not get main lock";
 unlink($IndexFile) if ($UseIndex);
 foreach (split(/\n/, $commandList)) {
   s/\s+$//q;
   next if (!(/^[=!]]/)); # Only valid commands.
   print "Processing $_<br>\n";
   if (/^\!(.+)/) {
     &DeletePage($1, $doRC, $doText);
   } elsif (/^\=(?:\[\[)?([^]=]+)(?:\]\])?\=(?:\[\[)?([^]=]+)(?:\]\])?/) {
     &RenamePage($1, $2, $doRC, $doText);
   } elsif (/^\|(?:\[\[)?([^]|]+)(?:\]\])?\|(?:\[\[)?([^]|]+)(?:\]\])?/) {
     &RenameTextLinks($1, $2);
 &NewPageCacheClear("."); # Clear cache (needs testing?)
 unlink($IndexFile) if ($UseIndex);
 &ReleaseLock();
```

UseModWiki

```
# Delete and rename must be done inside locks.
sub DeletePage {
  my ($page, $doRC, $doText) = @_;
  my ($fname, $status);
  page = ~ s/ / q;
  page = ~ s/\[+//;
  page = ~ s/\] + //;
  $status = &ValidId($page);
  if ($status ne "") {
    print "Delete-Page: page $page is invalid, error is: $status<br>\n";
   return;
  $fname = &GetPageFile($page);
  unlink($fname) if (-f $fname);
  $fname = $KeepDir . "/" . &GetPageDirectory($page) . "/$page.kp";
  unlink($fname) if (-f $fname);
  unlink($IndexFile) if ($UseIndex);
  &EditRecentChanges(1, $page, "") if ($doRC); # Delete page
 # Currently don't do anything with page text
```

Phase 2

```
<?
# THIS IS THE MAIN FILE OF THE PHP WIKIPEDIA SCRIPT
$styleSheet = "" ;
$bodyOptions = "";
$append = "";
$headerScript = "";
# Includes the necessary parts
include_once ( "./wikiSettings.php" ) ;
include_once ( "./basicFunctions.php" );
include_once ( "./databaseFunctions.php" );
include_once ( "./wikiTitle.php" );
include_once ( "./wikiPage.php" ) ;
include once ( "./wikiUser.php" );
# Main program
$expiration = time()+31536000 ; # Cookies set will expire in one year from now
$pageTitle = "" ;
```

```
<?
include once ( "special_makelog.php" );
function deletepage () {
    global $wikiDeleteTitle , $wikiDeleteDenied , $wikiDeleteSuccess , $wikiDeleteMsg1 , $wikiDelete
    global $THESCRIPT , $target , $user , $iamsure , $vpage , $wikiSQLServer ;
    $target = stripslashes ( $target );
    $vpage = new WikiPage ;
   $vpage->title = $title ;
   $vpage->makeSecureTitle ();
   $ti = $vpage->secureTitle ;
    $vpage->special ( str_replace ( "$1" , $target , $wikiDeleteTitle ) );
    $vpage->makeSecureTitle ();
    if ( !in_array ( "is_sysop" , $user->rights ) ) return $wikiDeleteDenied ;
   if ( $iamsure == "yes" ) {
       $ret = "<h2>".str_replace("$1",$target,$wikiDeleteSuccess)."</h2>" ;
       $connection = getDBconnection ();
       # Move from cur to old for potential recovery later
       $deadpage = new WikiPage ;
       $deadpage->setTitle ( $target ) ;
       $deadpage->backup () ;
       # Okay, now go for it
       $sql = "DELETE FROM cur WHERE cur_title=\"$target\"" ;
       $result = mysql_query ( $sql , $connection ) ;
```

Phase 3

```
<?
# Main wiki script; see design.doc
#
$wgRequestTime = microtime();
session_cache_limiter( "private, must-revalidate" );
session start();
session_register( "wsUserID" );
session_register( "wsUserName" );
session register( "wsUserPassword" );
qlobal $IP;
include_once( "./LocalSettings.php" );
include_once( "$IP/Setup.php" );
wfProfileIn( "main-misc-setup" );
OutputPage::setEncodings(); # Not really used yet
# Query string fields
global $action, $title, $search, $go, $target, $printable;
global $returnto, $diff, $oldid;
```

Article.php line 982

```
function delete()
    global $wgUser, $wgOut, $wgTitle;
    global $wpConfirm, $wpReason, $image, $oldimage;
    # Anybody can delete old revisions of images; only sysops
    # can delete articles and current images
    if ( ( ! $oldimage ) && ( ! $wgUser->isSysop() ) ) {
        $wgOut->sysopRequired();
        return;
    if ( wfReadOnly() ) {
        $wgOut->readOnlyPage();
        return;
    }
    # Better double-check that it hasn't been deleted yet!
    $wgOut->setPagetitle( wfMsg( "confirmdelete" ) );
    if ( $image ) {
        if ( "" == trim( $image ) ) {
             $wgOut->fatalError( wfMsg( "cannotdelete" ) );
             return;
```

Article.php line 1130

```
function doDeleteArticle( $title )
    global $wgUser, $wgOut, $wgLang, $wpReason, $wgTitle, $wgDeferredUpdateList;
    $fname = "Article::doDeleteArticle";
    $ns = $title->getNamespace();
    $t = wfStrencode( $title->getDBkey() );
    $id = $title->getArticleID();
    if ( "" == $t ) {
         $wgOut->fatalError( wfMsg( "cannotdelete" ) );
         return:
    }
    $u = new SiteStatsUpdate( 0, 1, -$this->isCountable( $this->getContent( true ) ) );
    array push( $wgDeferredUpdateList, $u );
    # Move article and history to the "archive" table
    $sql = "INSERT INTO archive (ar_namespace, ar_title, ar_text," .
      "ar_comment, ar_user, ar_user_text, ar_timestamp, ar_minor_edit," .
      "ar_flags) SELECT cur_namespace,cur_title,cur_text,cur_comment," .
      "cur_user,cur_user_text,cur_timestamp,cur_minor_edit,0 FROM cur " .
      "WHERE cur namespace={$ns} AND cur title='{$t}'";
    wfQuery( $sql, $fname );
```

MediaWiki today

DeleteAction::tempDelete()

```
protected function tempDelete() {
      $article = $this->getArticle();
      $title = $this->getTitle();
                                                                                         20-year-old comment!
     $context = $this->getContext();
     $user = $context->getUser();
     $request = $context->getRequest();
      $outputPage = $context->getOutput();
     # Better double-check that it hasn't been deleted yet!
     $article->getPage()->loadPageData(
           $request->wasPosted() ? WikiPage::READ_LATEST : WikiPage::READ_NORMAL
     if ( !$article->getPage()->exists() ) {
           $outputPage->setPageTitleMsg(
                 $context->msg( 'cannotdelete-title' )->plaintextParams( $title->getPrefixedText() )
           $outputPage->wrapWikiMsg( "<div class=\"error mw-error-cannotdelete\">\n$1\n</div>".
                  [ 'cannotdelete', wfEscapeWikiText( $title->getPrefixedText() ) ]
           $this->showLogEntries();
           return;
```

```
<?php
namespace MediaWiki\Page;
use MediaWiki\Permissions\Authority;
  Service for page delete actions.
  Default implementation is MediaWiki\Page\PageCommandFactory.
 * @since 1.37
interface DeletePageFactory {
    /**
     * @param ProperPageIdentity $page
     * @param Authority $deleter
     * @return DeletePage
    public function newDeletePage( ProperPageIdentity $page, Authority $deleter ): DeletePage;
```

```
public function __construct(
    HookContainer $hookContainer,
    RevisionStore $revisionStore,
    LBFactory $lbFactory,
    JobQueueGroup $jobQueueGroup,
    CommentStore $commentStore,
    ServiceOptions $serviceOptions,
    BagOStuff $recentDeletesCache,
    string $localWikiID,
    string $webRequestID,
    WikiPageFactory $wikiPageFactory,
    UserFactory $userFactory,
    BacklinkCacheFactory $backlinkCacheFactory,
    NamespaceInfo $namespaceInfo,
    ITextFormatter $contLangMsgTextFormatter,
    ProperPageIdentity $page,
    Authority $deleter
    $this->hookRunner = new HookRunner( $hookContainer );
    $this->revisionStore = $revisionStore;
    $this->lbFactory = $lbFactory;
    $this->jobQueueGroup = $jobQueueGroup;
    $this->commentStore = $commentStore;
    $serviceOptions->assertRequiredOptions( self::CONSTRUCTOR OPTIONS );
    $this->options = $serviceOptions;
```

```
* Back-end article deletion: deletes the article with database consistency, writes logs, purges cac
  @note This method doesn't check user permissions. Use deleteIfAllowed for that.
 * @param string $reason Delete reason for deletion log
 * @return Status Status object:
     - If successful (or scheduled), a good Status
     - If a page couldn't be deleted because it wasn't found, a Status with a non-fatal 'cannotdelet
     - A fatal Status otherwise.
 */
public function deleteUnsafe( string $reason ): Status {
    $this->setDeletionAttempted();
    $origReason = $reason;
    $hookStatus = $this->runPreDeleteHooks( $this->page, $reason );
    if ( !$hookStatus->isGood() ) {
         return $hookStatus;
    if ( $this->associatedTalk ) {
         $talkReason = $this->contLangMsgTextFormatter->format(
             MessageValue::new( 'delete-talk-summary-prefix' )->plaintextParams( $origReason )
         );
         $talkHookStatus = $this->runPreDeleteHooks( $this->associatedTalk, $talkReason );
         if ( !$talkHookStatus->isGood() ) {
             return $talkHookStatus;
```

\$status = \$this->deleteInternal(\$this->page, self::PAGE_BASE, \$reason);

```
// Archive revisions. In immediate mode, archive all revisions. Otherwise, archive
// one batch of revisions and defer archival of any others to the job queue.
$explictTrxLogged = false;
while ( true ) {
    $done = $this->archiveRevisions( $page, $id );
    if ( $done || !$this->forceImmediate ) {
         break:
    $dbw->endAtomic( __METHOD___);
    if ( $dbw->explicitTrxActive() ) {
         // Explicit transactions may never happen here in practice. Log to be sure.
         if ( !$explictTrxLogged ) {
             $explictTrxLogged = true;
             LoggerFactory::getInstance( 'wfDebug' )->debug(
                  'explicit transaction active in ' . __METHOD__ . ' while deleting {title}', [
                  'title' => $title->getText(),
             ] );
         continue;
    if ( $dbw->trxLevel() ) {
         $dbw->commit( METHOD );
    $this->lbFactory->waitForReplication();
    $dbw->startAtomic( __METHOD___ );
```

```
// For now, shunt the revision data into the archive table.
// Text is *not* removed from the text table; bulk storage
// is left intact to avoid breaking block-compression or
// immutable storage schemes.
// In the future, we may keep revisions and mark them with
// the rev deleted field, which is reserved for this purpose.
// Lock rows in `revision` and its temp tables, but not any others.
// Note array_intersect() preserves keys from the first arg, and we're
// assuming $revQuery has `revision` primary and isn't using subtables
// for anything we care about.
$lockQuery = $revQuery;
$lockQuery['tables'] = array_intersect(
    $revQuery['tables'],
    [ 'revision', 'revision_comment_temp' ]
unset( $lockQuery['fields'] );
$dbw->newSelectQueryBuilder()
    ->queryInfo( $lockQuery )
    ->where( [ 'rev page' => $id ] )
    ->forUpdate()
    ->caller( METHOD )
    ->acquireRowLocks();
$deleteBatchSize = $this->options->get( MainConfigNames::DeleteRevisionsBatchSize );
```

Stack trace

```
DatabaseMySQL.php:757
                               Wikimedia\Rdbms\DatabaseMySQL->doSingleStatementQuery()
 Database.php:797
                               Wikimedia\Rdbms\Database->attemptQuery()
 Database.php:716
                               Wikimedia\Rdbms\Database->executeQuery()
 Database.php:643
                               Wikimedia\Rdbms\Database->query()
 Database.php:1734
                               Wikimedia\Rdbms\Database->delete()
 DBConnRef.php:119
                               Wikimedia\Rdbms\DBConnRef-> call()
 DBConnRef.php:576
                               Wikimedia\Rdbms\DBConnRef->delete()
 DeleteQueryBuilder.php:229
                               Wikimedia\Rdbms\DeleteQueryBuilder->execute()
 DeletePage.php:820
                               MediaWiki\Page\DeletePage->archiveRevisions()
10 DeletePage.php:579
                               MediaWiki\Page\DeletePage->deleteInternal()
 DeletePage.php:465
                               MediaWiki\Page\DeletePage->deleteUnsafe()
12 DeletePage.php:367
                               MediaWiki\Page\DeletePage->deleteIfAllowed()
 DeleteAction.php:183
                               DeleteAction->tempDelete()
 DeleteAction.php:136
                               DeleteAction->show()
15 ActionEntryPoint.php:733
                               MediaWiki\Actions\ActionEntryPoint->performAction()
16 ActionEntryPoint.php:510
                               MediaWiki\Actions\ActionEntryPoint->performRequest()
17 ActionEntryPoint.php:151
                               MediaWiki\Actions\ActionEntryPoint->execute()
                               MediaWiki\MediaWikiEntryPoint->run()
 MediaWikiEntryPoint.php:169
 index.php:50
                               {main}()
```

Reflections

- Lee Daniel Crocker wrote 17 kloc in 2 months.
 - Professional poker player.
 - Had no prior PHP experience.
 - Credits Magnus but left no line of Magnus's code untouched.
- Good enough that we never had to rewrite.



Founder effects

What early decisions continue to impact the product?

Human-readable URLs

https://en.wikipedia.org/wiki/Isaac_Newton

- Unique title is also part of the URL
- Users have to care about titles
- Normal for wikis but not for other CMSes
- Compare: Google Docs, news websites
- Even images need to have names. Naming is hard but we make our users do that.

Special pages

- Introduced in Phase 2
- Now we have 246 of them on English Wikipedia.
- An unusual design decision to make internal actions be a kind of page.

Localised and international

- Already supported 15 languages in May 2003
- Internal message identifier

```
$rctext = wfMsg( "recentchangestext" );
```

• Compare contemporary best practice: gettext

```
printf(_("Hello World\n"));
```

PHP

- PHP was slow, new. But easy to learn.
- Lee knew Java. How might things have been different if he decided to port it?
- There has never been another opportunity to port.

Coding style

• "m" prefixes were a mistake and just won't die

C++

```
class ViewCountUpdate {
public:
    int mPageID;
    ViewCountUpdate( int pageId )
         mPageID = pageId;
```

Property access is ambiguous Local variables conflict with properties PHP

```
class ViewCountUpdate {
    var $mPageID;
    function ViewCountUpdate( $pageId )
         $this->mPageID = $pageId;
```

Property access prefixed by \$this "m" is redundant

Classes

- User, Title, Article, OutputPage, Skin: created in 2002 and were large at the time.
- Still exist with similar responsibilities.
- Skin still tightly integrated.
- Class size >1000 lines continues to be normal.

Extensions

- In May 2004 I introduced the idea of extensions as separate modules, registered in config, strictly separated from core.
- The first extension in this sense was BoardVote.
- There were a couple of things called extensions before this, but core knew about them.
- Evan Prodromou introduced hooks in November. I favoured subclasses.

Why extensions?

- Encouraging MediaWiki as an open source product with an ecosystem of independent developers.
- Reducing download size.
- Introducing strict boundaries between modules.

Multi-repo Git

- In 2012 we moved from Subversion to Git
- In Subversion we often changed both core and extensions in a single commit.
- With a single commit we could update all extension callers of a deprecated function.
- We split it up in the move to Git but now have some regrets, did we do the right thing?

MediaWiki Today

Incomplete migrations

- TitleParser introduced in 2014, but still hundreds of usages of Title::newFromText()
- LoggerFactory introduced in 2014, but still hundreds of callers of wfDebug()
- packageFiles
- Config globals
- Be careful about which examples you follow!

Data lifetime

Lifetime	Where	When to use
Process	global variable, class static, local static	Rarely or never.
Service container	Non-static member of service class	Persistent caches. Factory-managed class instances.
Request	Method parameter. Ephemeral object.	Form inputs, user preferences.

- Use the service container rather than class static members so that data will be wiped between tests.
- Multiple requests may be handled by a single service container, for example if FauxRequest is used.

Value objects

- Value objects store data but have few methods.
- Value objects may be created with "new"

```
$user = new UserIdentityValue( $userId, $userName );
```

Service classes

- Service classes are singletons. There is only one instance at any given time.
- The instance is stored in the service container.
- Service classes store long-lived (process lifetime) cache data.
- Service classes receive required services in their constructors, or later by a mutator method (dependency injection).
- Use ServiceWiring.php (in core or extensions) to declare service classes.

ServiceOptions

 Bundle a subset of the global config into a ServiceOptions object.

ServiceOptions

```
class MyService {
    public const CONSTRUCTOR_OPTIONS = [ MainConfigNames::MyServiceFlavour ];
    private $flavour;
    public function __construct( ServiceOptions $options ) {
        $options->assertRequiredOptions( MyService::CONSTRUCTOR_OPTIONS );
        $this->flavour = $options->get( MainConfigNames::MyServiceFlavour );
// ServiceWiring.php
return [
    'MyService' => static function ( MediaWikiServices $services ): MyService {
        return new MyService(
            new ServiceOptions(
                 MyService::CONSTRUCTOR OPTIONS,
                 $services->getMainConfig()
```

Current style hints

- Use namespaces and PSR-4
- Use hook interfaces
- Use SelectQueryBuilder
- JSON serialization
- packageFiles

RequestContext

- A kitchen-sink bundle of request-related data.
- Static singleton RequestContext::getMain()
- Better than what came before (\$wgUser, \$wgTitle)

MediaWiki Future

MediaWiki future

Time wounds all heels

— Bryan Davis, 2014, regarding LoggerFactory (also Groucho Marx etc.)

Near future

- MediaWikiEntryPoint
- Query builders
- Codex and Vue
- Parsoid read views

Murky medium

- Another hook redesign (T275847, T212482)
- Global config variable deprecation, removal
- Skin isolation (T140664)
- MessageValue

Technical hopes

- Completed migrations
- One way to do things
- Upstream engagement

Product hopes

- Wikitext 2.0
- Global templates
- Structured sister projects
- Rich content and media embedding
 - Maps, graphs, diagrams, animations
- Help the world learn

Not going to happen

- Rewrite in some other language.
 - It just keeps getting harder the more PHP code we write. The goal is receding.
- Split the monolith into many microservices.
 - High costs.
 - Not the way things are going, e.g. Parsoid.

Any questions?