

Natural language processing (NLP) is about developing applications and services that are able to understand human languages.

Install NLTK Packages

```
In [1]: import nltk  
nltk.download()  
  
showing info https://raw.githubusercontent.com/nltk/nltk_data/gh-pages/index.xml  
  
Out[1]: True
```

Tokenize Text Using Pure Python

We will use the urllib module to crawl the web page to analyse the text

```
In [2]: import urllib.request  
response = urllib.request.urlopen('http://php.net/')  
html = response.read()  
print (html)
```

```
b'<!DOCTYPE html>\n<html xmlns="http://www.w3.org/1999/xhtml" lang="en">\n<head>\n    <meta charset="utf-8">\n    <meta name="viewport" content="width=device-width, initial-scale=1.0">\n    <title>PHP: Hypertext Preprocessor</title>\n    <link rel="shortcut icon" href="http://php.net/favicon.ico">\n    <link rel="search" type="application/opensearchdescription+xml" href="http://php.net/phpnetimprovedsearch.src" title="Add PHP.net search">\n    <link rel="alternate" type="application/atom+xml" href="http://php.net/releases/feed.php" title="PHP Release feed">\n    <link rel="alternate" type="application/atom+xml" href="http://php.net/feed.atom" title="PHP: Hypertext Preprocessor">\n    <link rel="canonical" href="http://php.net/index.php">\n    <link rel="shorturl" href="http://php.net/index">\n    <link rel="alternate" href="http://php.net/index" hreflang="x-default">\n    <link rel="stylesheet" type="text/css" href="/cached.php?t=1539771603&f=/fonts/Fira/fira.css" media="screen">\n    <link rel="stylesheet" type="text/css" href="/cached.php?t=1539765004&f=/fonts/Font-Awesome/css/fontello.css" media="screen">\n    <link rel="stylesheet" type="text/css" href="/cached.php?t=1540425603&f=/styles/theme-base.css" media="screen">\n    <link rel="stylesheet" type="text/css" href="/cached.php?t=1540425603&f=/styles/theme-medium.css" media="screen">\n    <link rel="stylesheet" type="text/css" href="/cached.php?t=1429259403&f=/styles/home.css" media="screen">\n    <!--[if lte IE 7]>\n    <link rel="stylesheet" type="text/css" href="http://php.net/styles/workarounds.ie7.css" media="screen">\n    <![endif]-->\n    <!--[if lte IE 8]>\n    <script>\n        window.brokenIE = true;\n    </script>\n    <![endif]-->\n    <!--[if lte IE 9]>\n    <link rel="stylesheet" type="text/css" href="http://php.net/styles/workarounds.ie9.css" media="screen">\n    <![endif]-->\n    <!--[if IE]>\n    <script src="http://php.net/js/ext/html5.js"></script>\n    <![endif]-->\n    <base href="http://php.net/index.php">\n</head>\n<body class="home">\n    <nav id="head-nav" class="navbar navbar-fixed-top">\n        <div class="navbar-inner clearfix">\n            <a href="/" class="brand"></a>\n            <div id="mainmenu-toggle-overlay"></div>\n            <input type="checkbox" id="mainmenu-toggle">\n            <ul class="nav">\n                <li class=""><a href="/downloads">Downloads</a></li>\n                <li class=""><a href="/docs.php">Documentation</a></li>\n                <li class=""><a href="/get-involved">Get Involved</a></li>\n                <li class=""><a href="/support">Help</a></li>\n            </ul>\n            <form class="navbar-search" id="topsearch" action="/search.php">\n                <input type="hidden" name="show" value="quickref">\n                <input type="search" name="pattern" class="search-query" placeholder="Search" accesskey="s">\n            </form>\n        </div>\n        <div id="flash-message"></div>\n    </nav>\n    <nav id="trick">\n        <div>\n            <dl>\n                <dt><a href="/manual/en/getting-started.php">Getting Started</a></dt>\n                <dd><a href="/manual/en/introduction.php">Introduction</a></dd>\n                <dt><a href="/manual/en/tutorial.php">A simple tutorial</a></dt>\n                <dd><a href="/manual/en/langref.php">Language Reference</a></dd>\n                <dt><a href="/manual/en/language.basic-syntax.php">Basic syntax</a></dt>\n                <dd><a href="/manual/en/language.variables.php">Variables</a></dd>\n                <dt><a href="/manual/en/language.types.php">Types</a></dt>\n                <dd><a href="/manual/en/language.constants.php">Constants</a></dd>\n                <dt><a href="/manual/en/language.expressions.php">Expressions</a></dt>\n                <dd><a href="/manual/en/language.operators.php">Operators</a></dd>\n                <dt><a href="/manual/en/language.control-structures.php">Control Structures</a></dt>\n                <dd><a href="/manual/en/language.functions.php">Functions</a></dd>\n                <dt><a href="/manual/en/language.oop5.php">Classes and Objects</a></dt>\n                <dd><a href="/manual/en/language.namespaces.php">Namespaces</a></dd>\n                <dt><a href="/manual/en/language.errors.php">Errors</a></dt>\n                <dd><a href="/manual/en/language.exceptions.php">Exceptions</a></dd>\n                <dt><a href="/manual/en/language.generators.php">Generators</a></dt>\n                <dd><a href="/manual/en/language.references.php">References Explained</a></dd>\n                <dt><a href="/manual/en/reserved.variables.php">Predefined Variables</a></dt>\n                <dd><a href="/manual/en/reserved.exceptions.php">Predefined Exceptions</a></dd>\n                <dt><a href="/manual/en/reserved.interfaces.php">Predefined Interfaces and Classes</a></dt>\n                <dd><a href="/manual/en/context.php">Context options and parameters</a></dd>\n                <dt><a href="/manual/en/wrappers.php">Supported Protocols and Wrappers</a></dt>\n                <dd><a href="/manual/en/wrappers.php">Supported Protocols and Wrappers</a></dd>\n            </dl>\n        </div>\n    </nav>\n</body>
```

annual/en/security.php">'>Security</dt>\n\t<dd>Introduction</dd>\n\t<dd>General considerations</dd>\n\t<dd>Installed as CGI binary</dd>\n\t<dd>Installed as an Apache module</dd>\n\t<dd>Session Security</dd>\n\t<dd>Filesystem Security</dd>\n\t<dd>Database Security</dd>\n\t<dd>Error Reporting</dd>\n\t<dd>Using Register Globals</dd>\n\t<dd>User Submitted Data</dd>\n\t<dd>Magic Quotes</dd>\n\t<dd>Hiding PHP</dd>\n\t<dd>Keeping Current</dd>\n<dt>Features</dt>\n\t<dd>HTTP authentication with PHP</dd>\n\t<dd>Cookies</dd>\n\t<dd>Sessions</dd>\n\t<dd>Dealing with XForms</dd>\n\t<dd>Handling file uploads</dd>\n\t<dd>Using remote files</dd>\n\t<dd>Connection handling</dd>\n\t<dd>Persistent Database Connections</dd>\n\t<dd>Safe Mode</dd>\n\t<dd>Command line usage</dd>\n\t<dd>Garbage Collection</dd>\n\t<dd>DTrace Dynamic Tracing</dd>\n<dt>Affecting PHP's Behaviour</dt>\n\t<dd>Audio Formats Manipulation</dd>\n\t<dd>Authentication Services</dd>\n\t<dd>Command Line Specific Extensions</dd>\n\t<dd>Compression and Archive Extensions</dd>\n\t<dd>Credit Card Processing</dd>\n\t<dd>Cryptography Extensions</dd>\n\t<dd>Database Extensions</dd>\n\t<dd>Date and Time Related Extensions</dd>\n\t<dd>File System Related Extensions</dd>\n\t<dd>Human Language and Character Encoding Support</dd>\n\t<dd>Image Processing and Generation</dd>\n\t<dd>Mail Related Extensions</dd>\n\t<dd>Mathematical Extensions</dd>\n\t<dd>Non-Text MIME Output</dd>\n\t<dd>Process Control Extensions</dd>\n\t<dd>Other Basic Extensions</dd>\n\t<dd>Other Services</dd>\n\t<dd>Search Engine Extensions</dd>\n\t<dd>Server Specific Extensions</dd>\n\t<dd>Session Extensions</dd>\n\t<dd>Text Processing</dd>\n\t<dd>Variable and Type Related Extensions</dd>\n\t<dd>Windows Only Extensions</dd>\n\t<dd>XML Manipulation</dd>\n\t<dd>GUI Extensions</dd>\n<dt>'>Keyboard Shortcuts</dt><dt>'>This help</dt>\n<dt>j</dt>\n<dd>Next menu item</dd>\n<dt>k</dt>\n<dd>Previous menu item</dd>\n<dt>g p</dt>\n<dd>Previous man

page</dd>\n<dt>g n</dt>\n<dd>Next man page</dd>\n<dt>G</dt>\n<dd>Scroll to bottom</dd>\n<dt>g g</dt>\n<dd>Scrol l to top</dd>\n<dt>g h</dt>\n<dd>Goto homepage</dd>\n<dt>g s</dt>\n<dd>Goto search
(current page)</dd>\n<dt>/</dt>\n<dd>Focus search box</dd>\n<div id="goto">\n <div class="search">\n <div class="text"></div>\n <div class="results"></div>\n </div>\n</div>\n<div id="intro" class="clearfix">\n <div class="container">\n <div class="row clearfix">\n <div class="blurb">\n <p>PHP is a popular general-purpose scripting language that is especially suited to web development.</p>\n <p>Fast, flexible and pragmatic, PHP powers everything from your blog to the most popular website s in the world.</p>\n </div>\n <div class="download">\n <h3>Download</h3>\n \n 7.1.26·Release Notes·Upgrading\n 7.2.14·Release Notes·Upgradi ng\n 7.3.1·Release Notes·Upgrading\n \n </div>\n </div>\n </div>\n</div>\n<div id="layout" class="clearfix">\n <section id="layout-content">\n <div class="home-content">\n <article class="newsentry">\n <header class="title">\n <time datetime="2019-01-10T15:01:12-08:00">10 Jan 2019</time>\n <h2 class="newstitle">\n PHP 5.6.40 Released\n </h2>\n </header>\n <div class="newscontent">\n <div>\n <p>The PHP development team announces the immediate availability of PHP 5.6.40. This is a security release. Several security bugs have been fixed in this release. All PHP 5.6 users are encouraged to upgrade to this version.</p>\n <p>For source downloads of PHP 5.6.40 please visit our downloads page, Windows source and binaries can be found on windows.php.net/download/. The list of changes is recorded in the ChangeLog.\n <p>Please note that according to the PHP version\\nsupport timelines, PHP 5.6.40 is the last scheduled release of PHP 5.6 branch. There may be additional release if we discover important security issues that warrant it, otherwise this release will be the final one in the PHP 5.6 branch.\n If your PHP installation is based on PHP 5.6, it may be a good time to start making the plans for the upgrade to PHP 7.1, PHP 7.2 or PHP 7.3.\n </div>\n </div>\n </article>\n <article class="newsentry">\n <header class="title">\n <time datetime="2019-01-10T18:52:00+00:00">10 Jan 2019</time>\n <h2 class="newstitle">\n PHP 7.1.26 Release Announcement\n </h2>\n </header>\n <div class="newscontent">\n <div>\n <p>The PHP development team announces the immediate availability of PHP 7.1.26. This is a security release which also contains several bug fixes.</p>\n <p>All PHP 7.1 users are encouraged to upgrade to this version.</p>\n <p>For source downloads of PHP 7.1.26 please visit our downloads page, Windows source and binaries can be found on windows.php.net/download/. The list of changes is recorded in the ChangeLog.\n </div>\n </div>\n </article>\n <article class="newsentry">\n <header class="title">\n <time datetime="2019-01-10T11:51:06+01:00">10 Jan 2019</time>\n <h2 class="newstitle">\n PHP 7.3.1 Released\n </h2>\n </header>\n <div class="newscontent">\n <div>\n <p>The PHP development team announces the immediate availability of PHP 7.3.1. This is a security release which also contains several bug fixes.</p>\n <p>All PHP 7.3 users are encouraged to upgrade to this version.</p>\n <p>For source downloads of PHP 7.3.1 please visit our downloads page, Windows source and binaries can be found on windows.php.net/download/. 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.\n </p>\n\n <p>\n For source downloads of PHP 7.3.0RC6 please visit the download page.\n Windows sources and binaries can be found on windows.php.net/qa/.\n </p>\n\n <p>\n Please carefully test this version and report any issues found in the bug reporting system.\n </p>\n\n <p>\n THIS IS A DEVELOPMENT PREVIEW - DO NOT USE IT IN PRODUCTION!\n </p>\n\n <p>\n For more information on the new features and other changes, you can read the NEWS file,\n or the UPGRADING\n file for a complete list of upgrading notes. Internal changes are listed in the UPGRADING.INTERNALS file.\n These files can also be found in the release archive.\n </p>\n\n <p>\n The next release would be 7.3.0 (GA), planned for December 6th.\n </p>\n\n <p>\n The signatures for the release can be found in the manifest\n or on the QA site.\n </p>\n\n <p>\n Thank you for helping us make PHP better.\n </p>\n\n </div>\n </div>\n </article><article class="newsentry">\n <header class="title">\n <time datetime="2018-11-08T11:11:26+01:00">08 Nov 2018</time>\n <h2 class="newstitle">\n PHP 7.3.0RC5 Released\n </h2>\n </header>\n <div class="newscontent">\n <div>\n <p>\n The PHP team is glad to announce the next PHP 7.3.0 pre-release, PHP 7.3.0RC5.\n The rough outline of the PHP 7.3 release cycle is specified in the PHP Wiki.\n For source downloads of PHP 7.3.0RC5 please visit the download page.\n Windows sources and binaries can be found on windows.php.net/qa/.\n\n <p>\n Please carefully test this version and report any issues found in the bug reporting system.\n THIS IS A DEVELOPMENT PREVIEW - DO NOT USE IT IN PRODUCTION!\n </p>\n\n <p>\n For more information on the new features and other changes, you can read the NEWS file,\n or the UPGRADING\n file for a complete list of upgrading notes. Internal changes are listed in the UPGRADING.INTERNALS file.\n These files can also be found in the release archive.\n The next release would be RC6, planned for November 22nd.\n </p>\n\n <p>\n The signatures for the release can be found in the manifest\n or on the QA site.\n </p>\n\n <p>\n Thank you for helping us make PHP better.\n </p>\n\n </div>\n </div>\n </article><article class="newsentry">\n <header class="title">\n <time datetime="2018-10-25T11:07:32+02:00">25 Oct 2018</time>\n <h2 class="newstitle">\n PHP 7.3.0RC4 Released\n </h2>\n </header>\n <div class="newscontent">\n <div>\n <p>\n The PHP team is glad to announce the next PHP 7.3.0 pre-release, PHP 7.3.0RC4.\n The rough outline of the PHP 7.3 release cycle is specified in the PHP Wiki.\n\n <p>\n For source downloads of PHP 7.3.0RC4 please visit the download page.\n Windows sources and binaries can be found on windows.php.net/qa/.\n\n <p>\n Please carefully test this version and report any issues found in the bug reporting system.\n </p>\n\n </div>\n </div>\n </article>

<p>\n THIS IS A DEVELOPMENT PREVIEW - DO NOT USE IT IN PRODUCTION!\n </p>\n\n For more information on the new features and other changes, you can read the\n NEWS file,\n or the UPGRADING\n file for a complete list of upgrading notes. Internal changes are listed in the\n UPGRADING.INTERNALS file.\n These files can also be found in the release archive.\n </p>\n\n The next release would be RC5, planned for November 8th.\n </p>\n\n The signatures for the release can be found in the manifest\n or on the QA site.\n </p>\n\n Thank you for helping us make PHP better.\n </p>\n </div>\n </div>\n</article><article class="newsentry">\n <header class="title">\n <time datetime="2018-10-11T13:47:50+02:00">11 Oct 2018</time>\n <h2 class="newstitle">\n PHP 7.3.0RC3 Released\n </h2>\n </header>\n <div class="newscontent">\n <div>\n <p>\n The PHP team is glad to announce the next PHP 7.3.0 pre-release, PHP 7.3.0RC3.\n The rough outline of the PHP 7.3 release cycle is specified in the\n PHP Wiki.\n For source downloads of PHP 7.3.0RC3 please visit the\n download page.\n Windows sources and binaries can be found on windows.php.net/qa.\n Please carefully test this version and report any issues found in the\n bug reporting system.\n </p>\n <p>\n THIS IS A DEVELOPMENT PREVIEW - DO NOT USE IT IN PRODUCTION!\n </p>\n <p>\n For more information on the new features and other changes, you can read the\n NEWS file,\n or the UPGRADING\n file for a complete list of upgrading notes. Internal changes are listed in the\n UPGRADING.INTERNALS file.\n These files can also be found in the release archive.\n </p>\n\n The next release would be RC4, planned for October 25th.\n The signatures for the release can be found in the manifest\n or on the QA site.\n Thank you for helping us make PHP better.\n </p>\n </div>\n </div>\n</article><article class="newsentry">\n <header class="title">\n <time datetime="2018-09-28T10:31:16+02:00">28 Sep 2018</time>\n <h2 class="newstitle">\n PHP 7.3.0RC2 Released\n </h2>\n </header>\n <div class="newscontent">\n <div>\n <p>\n The PHP team is glad to announce the next PHP 7.3.0 pre-release, PHP 7.3.0RC2.\n The rough outline of the PHP 7.3 release cycle is specified in the\n PHP Wiki.\n For source downloads of PHP 7.3.0RC2 please visit the\n download page.\n Windows sources and binaries can be found on windows.php.net/qa.\n Please carefully test this version and report any issues found in the\n bug reporting system.\n THIS IS A DEVELOPMENT PREVIEW - DO NOT USE IT IN PRODUCTION!\n </p>\n <p>\n For more information on the new features and other changes, you can read the\n NEWS file,\n or the UPGRADING\n file for a complete list of upgrading notes. Internal changes are listed in th

e\n UPGRADING.INTERNALS file.\n These files can also be found in the release archive.\n </p>\n <p>\n The next release would be RC3, planned for October 11th.\n </p>\n <p>\n The signatures for the release can be found in the manifest\n or on the QA site.\n </p>\n </div>\n </div>\n </article><article class="newsentry">\n <header class="title">\n <time datetime="2018-09-13T10:57:40+02:00">13 Sep 2018</time>\n <h2 class="newstitle">\n PHP 7.3.0RC1 Released\n </h2>\n </header>\n <div class="newscontent">\n <div>\n <p>\n The PHP team is glad to announce the release of the next PHP 7.3.0 pre-release, PHP 7.3.0RC1.\n The rough outline of the PHP 7.3 release cycle is specified in the\n PHP Wiki.\n </p>\n <p>\n For source downloads of PHP 7.3.0RC1 please visit the download page.\n Windows sources and binaries can be found on windows.php.net/qa/.\n </p>\n <p>\n Please carefully test this version and report any issues found in the bug reporting system.\n </p>\n <p>\n THIS IS A DEVELOPMENT PREVIEW - DO NOT USE IT IN PRODUCTION!\n </p>\n <p>\n For more information on the new features and other changes, you can read the\n NEWS file,\n or the UPGRADING\n file for a complete list of upgrading notes. Internal changes are listed in the\n UPGRADING.INTERNALS file.\n These files can also be found in the release archive.\n </p>\n <p>\n The next release would be RC2, planned for September 27th.\n </p>\n <p>\n The signatures for the release can be found in the manifest\n or on the QA site.\n </p>\n <p>\n Thank you for helping us make PHP better.\n </p>\n </div>\n </div>\n </article><article class="newsentry">\n <header class="title">\n <time datetime="2018-08-30T17:37:34+02:00">30 Aug 2018</time>\n <h2 class="newstitle">\n PHP 7.3.0.beta3 Released\n </h2>\n </header>\n <div class="newscontent">\n <div>\n <p>\n The PHP team is glad to announce the release of the seventh PHP 7.3.0 version, PHP 7.3.0beta3.\n The rough outline of the PHP 7.3 release cycle is specified in the\n PHP Wiki.\n </p>\n <p>\n For source downloads of PHP 7.3.0beta3 please visit the download page.\n Windows sources and binaries can be found on windows.php.net/qa/.\n </p>\n <p>\n Please carefully test this version and report any issues found in the bug reporting system.\n </p>\n <p>\n THIS IS A DEVELOPMENT PREVIEW - DO NOT USE IT IN PRODUCTION!\n </p>\n <p>\n For more information on the new features and other changes, you can read the\n NEWS file,\n or the UPGRADING\n file for a complete list of upgrading notes. Internal changes are listed in the\n UPGRADING.INTERNALS file.\n These files can also be found in the release archive.\n </p>\n <p>\n The next release would be RC1, planned for September 13th.\n </p>\n <p>\n The signatures for the release can be found in

90dd3860b">the manifest\n or on the QA site.\n </p>\n\n <p>\n Thank you for helping us make PHP better.\n </p>\n </div>\n </div>\n </article>\n <article class="newsentry">\n <header class="title">\n <time datetime="2018-08-16T14:11:38+02:00">16 Aug 2018</time>\n <h2 class="newstitle">\n PHP 7.3.0.beta2 Released\n </h2>\n </header>\n <div class="newscontent">\n <div>\n <p>\n The PHP team is glad to announce the release of the sixth PHP 7.3.0 version, PHP 7.3.0beta2.\n The rough outline of the PHP 7.3 release cycle is specified in the\n PHP Wiki.\n </p>\n <p>\n For source downloads of PHP 7.3.0beta2 please visit the download page.\n Windows sources and binaries can be found on windows.php.net/qa.\n </p>\n <p>\n Please carefully test this version and report any issues found in the bug reporting system.\n </p>\n <p>\n THIS IS A DEVELOPMENT PREVIEW - DO NOT USE IT IN PRODUCTION!\n </p>\n <p>\n For more information on the new features and other changes, you can read the\n NEWS file,\n or the UPGRADING\n file for a complete list of upgrading notes. Internal changes are listed in the\n UPGRADING.INTERNALS file.\n These files can also be found in the release archive.\n </p>\n <p>\n The next release would be Beta 3, planned for August 30th.\n The signatures for the release can be found in the manifest\n or on the QA site.\n Thank you for helping us make PHP better.\n </p>\n </div>\n </div>\n </article>\n <article class="newsentry">\n <header class="title">\n <time datetime="2018-08-02T11:44:58+02:00">02 Aug 2018</time>\n <h2 class="newstitle">\n PHP 7.3.0.beta1 Released\n </h2>\n </header>\n <div class="newscontent">\n <div>\n <p>\n The PHP team is glad to announce the release of the fifth PHP 7.3.0 version, PHP 7.3.0beta1.\n The rough outline of the PHP 7.3 release cycle is specified in the\n PHP Wiki.\n </p>\n <p>\n For source downloads of PHP 7.3.0beta1 please visit the download page.\n Windows sources and binaries can be found on windows.php.net/qa.\n </p>\n <p>\n Please carefully test this version and report any issues found in the bug reporting system.\n </p>\n <p>\n THIS IS A DEVELOPMENT PREVIEW - DO NOT USE IT IN PRODUCTION!\n </p>\n <p>\n For more information on the new features and other changes, you can read the\n NEWS file,\n or the UPGRADING\n file for a complete list of upgrading notes. These files can also be found in the release archive.\n The next release would be Beta 2, planned for August 16th.\n The signatures for the release can be found in the manifest\n or on the QA site.\n Thank you for helping us make PHP better.\n </p>\n </div>\n </div>\n </article>\n <article class="newsentry">\n <header class="title">\n <time datetime="2018-07-19T11:02:21+02:00">19 Jul 2018</time>\n <h2 class="newstitle">\n PHP 7.3.0alpha4 Released\n </h2>\n </header>\n <div class="newscontent">\n <div>\n <p>\n The PHP

team is glad to announce the release of the fourth PHP 7.3.0 version, PHP 7.3.0alpha4.\n The rough outline of the PHP 7.3 release cycle is specified in the\n PHP Wiki.\n </p>\n <p>\n For source downloads of PHP 7.3.0alpha4 please visit the download page.\n Windows sources and binaries can be found on windows.php.net/qa.\n </p>\n <p>\n Please carefully test this version and report any issues found in the bug reporting system.\n </p>\n <p>\n THIS IS A DEVELOPMENT PREVIEW - DO NOT USE IT IN PRODUCTION!\n </p>\n <p>\n For more information on the new features and other changes, you can read the NEWS file,\n or the UPGRADING file for a complete list of upgrading notes. These files can also be found in the release archive.\n </p>\n <p>\n The next release would be Beta 1, planned for August 2nd.\n </p>\n <p>\n The signatures for the release can be found in the manifest or on the QA site.\n </p>\n <p>\n Thank you for helping us make PHP better.\n </p>\n </div>\n <div>\n <article>\n <article class="newsentry">\n <header class="title">\n <time datetime="2018-07-05T11:41:41+02:00">05 Jul 2018</time>\n <h2 class="newstitle">\n PHP 7.3.0 alpha 3 Released\n </h2>\n </header>\n <div class="newscontent">\n <div>\n <p>\n The PHP team is glad to announce the release of the third PHP 7.3.0 version, PHP 7.3.0 Alpha 3.\n The rough outline of the PHP 7.3 release cycle is specified in the\n PHP Wiki.\n </p>\n <p>\n For source downloads of PHP 7.3.0 Alpha 3 please visit the download page.\n Windows sources and binaries can be found on windows.php.net/qa.\n </p>\n <p>\n Please carefully test this version and report any issues found in the bug reporting system.\n </p>\n <p>\n THIS IS A DEVELOPMENT PREVIEW - DO NOT USE IT IN PRODUCTION!\n </p>\n <p>\n For more information on the new features and other changes, you can read the NEWS file,\n or the UPGRADING file for a complete list of upgrading notes. These files can also be found in the release archive.\n </p>\n <p>\n The next release would be Beta 1, planned for July 19th.\n </p>\n <p>\n The signatures for the release can be found in the manifest or on the QA site.\n </p>\n <p>\n Thank you for helping us make PHP better.\n </p>\n </div>\n <div>\n <article>\n <header class="title">\n <time datetime="2018-06-21T11:46:20+02:00">21 Jun 2018</time>\n <h2 class="newstitle">\n PHP 7.3.0 alpha 2 Released\n </h2>\n </header>\n <div class="newscontent">\n <div>\n <p>\n The PHP team is glad to announce the release of the second PHP 7.3.0 version, PHP 7.3.0 Alpha 2.\n The rough outline of the PHP 7.3 release cycle is specified in the\n PHP Wiki.\n </p>\n <p>\n For source downloads of PHP 7.3.0 Alpha 2 please visit the download page.\n Windows sources and binaries can be found on windows.php.net/qa.\n </p>\n <p>\n Please carefully test this version and report any issues found in the bug reporting system.\n </p>\n <p>\n THIS IS A DEVELOPMENT PREVIEW - DO NOT USE IT IN PRODUCTION!\n </p>\n <p>\n For more info\n </p>\n </div>\n </article>\n </div>\n </div>\n </div>\n </div>\n

rmation on the new features and other changes, you can read the [NEWS](https://github.com/php/php-src/blob/php-7.3.0alpha2/NEWS) file, or the [UPGRADING](https://github.com/php/php-src/blob/php-7.3.0alpha2/UPGRADING) file for a complete list of upgrading notes. These files can also be found in the release archive.

The next release would be Alpha 3, planned for July 5.

The signatures for the release can be found in [the manifest](https://gist.github.com/cmb69/2c54d0972b296a905062f52c0852e7cb) or on [the QA site](https://qa.php.net/).

Thank you for helping us make PHP better.

PHP 7.3.0 alpha 1 Released

PHP team is glad to announce the release of the first PHP 7.3.0 version, PHP 7.3.0 Alpha 1. This starts the PHP 7.3 release cycle, the rough outline of which is specified in the [PHP Wiki](https://wiki.php.net/todo/php73).

For source downloads of PHP 7.3.0 Alpha 1 please visit the [download page](https://downloads.php.net/~stas/).

Please carefully test this version and report any issues found in the [bug reporting system](http://bugs.php.net).

Please DO NOT use this version in production, it is an early test version.

For more information on the new features and other changes, you can read the [NEWS](https://github.com/php/php-src/blob/php-7.3.0alpha1/NEWS) file, or the [UPGRADING](https://github.com/php/php-src/blob/php-7.3.0alpha1/UPGRADING) file for a complete list of upgrading notes. These files can also be found in the release archive.

The next release would be Alpha 2, planned for June 21.

The signatures for the release can be found in [the manifest](https://gist.github.com/smalyshев/b0994d4dd138007237911429702ee040) or on [the QA site](https://qa.php.net/).

Thank you for helping us make PHP better.

PHP 7.2.2 Released

The PHP development team announces the immediate availability of PHP 7.2.2. This is a bugfix release, with several bug fixes included.

All PHP 7.2 users are encouraged to upgrade to this version.

For source downloads of PHP 7.2.2 please visit our [downloads page](http://www.php.net/downloads.php).

Windows source and binaries can be found on windows.php.net/download/. The list of changes is recorded in the [ChangeLog](http://www.php.net/ChangeLog-7.php#7.2.2).

PHP 7.2.0 Release Candidate 4 Released

The PHP development team announces the immediate availability of PHP 7.2.0 RC4. This release is the fourth Release Candidate for 7.2.0.

All users of PHP are encouraged to test this version carefully, and report any bugs and incompatibilities in the [bug tracking system](https://bugs.php.net/).

THIS IS A DEVELOPMENT PREVIEW - DO NOT USE IT IN PRODUCTION!

For more information on the new features and other changes, you can read the [NEWS](https://github.com/php/php-src/blob/php-7.2.0RC4/NEWS) file, or the [UPGRADING](https://github.com/php/php-src/blob/php-7.2.0RC4/UPGRADING) file for a complete list of upgrading notes. These files can also be

found in the release archive.\n </p>\n <p>\n For source downloads of PHP 7.2.0 Release Candidate 4 please visit the\n download page,\n Windows sources and binaries can be found at\n windows.php.net/qa/.\n </p>\n <p>\n The next Release Candidate will be announced on the 26th of October.\n You can also read the full list of planned releases on\n our wiki.\n </p>\n <p>Thank you for helping us make PHP better.</p>\n </div>\n </div>\n </article><article class="newsentry">\n <header class="title">\n <time datetime="2017-09-28T12:58:56+02:00">28 Sep 2017</time>\n <h2 class="newstitle">\n PHP 7.2.0 Release Candidate 3 Released\n </h2>\n </header>\n <div class="newscontent">\n <div>\n <p>\n The PHP development team announces the immediate availability of PHP 7.2.0 RC3.\n This release is the third Release Candidate for 7.2.0.\n All users of PHP are encouraged to test this version carefully, and report any bugs\n and incompatibilities in the bug tracking system.\n </p>\n <p>THIS IS A DEVELOPMENT PREVIEW - DO NOT USE IT IN PRODUCTION!</p>\n <p>\n For more information on the new features and other changes, you can read the\n NEWS file,\n or the UPGRADING\n file for a complete list of upgrading notes. These files can also be found in the release archive.\n </p>\n <p>\n For source downloads of PHP 7.2.0 Release Candidate 3 please visit the\n download page,\n Windows sources and binaries can be found at\n windows.php.net/qa/.\n </p>\n <p>\n The next Release Candidate will be announced on the 12th of October.\n You can also read the full list of planned releases on\n our wiki.\n </p>\n <p>Thank you for helping us make PHP better.</p>\n </div>\n </div><article class="newsentry">\n <header class="title">\n <time datetime="2017-08-31T10:53:58+02:00">31 Aug 2017</time>\n <h2 class="newstitle">\n PHP 7.2.0 Release Candidate 1 Released\n </h2>\n </header>\n <div class="newscontent">\n <div>\n <p>\n The PHP development team announces the immediate availability of PHP 7.2.0 Release\n Candidate 1. This release is the first Release Candidate for 7.2.0.\n All users of PHP are encouraged to test this version carefully, and report any bugs\n and incompatibilities in the bug tracking system.\n </p>\n <p>THIS IS A DEVELOPMENT PREVIEW - DO NOT USE IT IN PRODUCTION!</p>\n <p>\n For more information on the new features and other changes, you can read the\n NEWS file,\n or the UPGRADING\n file for a complete list of upgrading notes. These files can also be found in the release\n archive.\n </p>\n <p>\n For source downloads of PHP 7.2.0 Release Candidate 1 please visit the\n download page,\n Windows sources and binaries can be found at\n windows.php.net/qa/.\n </p>\n <p>\n The second Release Candidate will be released on the 14th of September.\n You can also read the full list of planned releases on\n our wiki.\n </p>\n <p>Thank you for helping us make PHP better.</p>\n </div>\n </div>\n </div>\n </div>\n </div><article class="newsentry">\n <header class="title">\n <time datetime="2017-08-17T10:17:44+02:00">17 Aug 2017</time>\n <h2 class="newstitle">\n PHP 7.2.0 Beta 3 Released\n </h2>\n </header>\n <div class="newscontent">\n <div>\n <p>\n The PHP development team announces the immediate availability of PHP 7.2.0 Beta 3.\n This release

is the third and final beta for 7.2.0. All users of PHP are encouraged to test this version carefully, and report any bugs and incompatibilities in the bug tracking system. THIS IS A DEVELOPMENT PREVIEW - DO NOT USE IT IN PRODUCTION!

For more information on the new features and other changes, you can read the NEWS file, or the UPGRADING file for a complete list of upgrading notes. These files can also be found in the release archive.

For source downloads of PHP 7.2.0 Beta 3 please visit the download page. Windows sources and binaries can be found at <http://windows.php.net/qa/>.

The first Release Candidate will be released on the 31th of August. You can also read the full list of planned releases on our wiki.

Thank you for helping us make PHP better.

PHP 7.2.0 Alpha 3 Released

The PHP development team announces the immediate availability of PHP 7.2.0 Alpha 3. This release contains fixes and improvements relative to Alpha 2. All users of PHP are encouraged to test this version carefully, and report any bugs and incompatibilities in the bug tracking system. THIS IS A DEVELOPMENT PREVIEW - DO NOT USE IT IN PRODUCTION!

For information on new features and other changes, you can read the NEWS file, or the UPGRADING file for a complete list of upgrading notes. These files can also be found in the release archive.

For source downloads of PHP 7.2.0 Alpha 3 please visit the download page. Windows sources and binaries can be found on <http://windows.php.net/qa/>.

The first beta will be released on the 20th of July. You can also read the full list of planned releases on our wiki.

Thank you for helping us make PHP better.

Older News Entries

Conferences calling for papers

CoderCruise 2019

ScotlandPHP 2019

Upcoming conferences

php[tek] 2019

Laracon Online

SunshinePHP 2019

Dutch PHP Conference 2019

User Group Events

Special Thanks

Social media

[@official_php](https://twitter.com/official_php)

```
</li>\n      </ul>\n      </div>\n      </p>\n</div>\n</aside>\n\n  </div><!-- layout -->\n\n  <footo\nr>\n    <div class="container footer-content">\n      <div class="row-fluid">\n        <ul class="footmenu">\n          <li><a href="/copyright.php">Copyright © 2001-2019 The PHP Group</a></li>\n          <li><a href="/my.php">My PHP.net</a></li>\n          <li><a href="/contact.php">Contact</a></li>\n          <li><a href="/site\ns.php">Other PHP.net sites</a></li>\n          <li><a href="/mirrors.php">Mirror sites</a></li>\n          <li><a href="/privacy.php">Privacy policy</a></li>\n        </ul>\n      </div>\n    </div>\n  </footer>\n\n  <div c\nlass='elephants'\n><div class=images></div></div>\n  <!-- External and third party libraries. -->\n  <script s\nrc="//ajax.googleapis.com/ajax/libs/jquery/1.10.2/jquery.min.js"></script>\n<script src="/cached.php?t=1421837618&f=/js/ext/modernizr.js"></script>\n<script src="/cached.php?t=1421837618&f=/js/ext/hogan-2.0.0.m\nin.js"></script>\n<script src="/cached.php?t=1421837618&f=/js/ext/typeahead.min.js"></script>\n<script sr\c="/cached.php?t=1421837618&f=/js/ext/mousetrap.min.js"></script>\n<script src="/cached.php?t=1421837618&f=/js/search.js"></script>\n<script src="/cached.php?t=1539765004&f=/js/common.js"></script>\n\n<a id\n="toTop" href="javascript:;"></span></a>\n\n</body>\n</html>\n'
```

The printed output, the result contains a lot of HTML tags that need to be cleaned. We can use BeautifulSoup to clean the grabbed text like this:

```
In [3]: from bs4 import BeautifulSoup
```

```
soup = BeautifulSoup(html,"html5lib")
text = soup.get_text(strip=True)
print (text)
```

PHP: Hypertext Preprocessor Downloads Documentation Get Involved Help Getting Started Introduction A simple tutorial Language Reference Basic syntax Types Variables Constants Expressions Operators Control Structures Functions Classes and Objects Namespaces Errors Exceptions Generators References Explained Predefined Variables Predefined Exceptions Predefined Interfaces and Classes Context options and parameters Supported Protocols and Wrappers Security Introduction General considerations Installed as CGI binary Installed as an Apache module Session Security Filesystem Security Database Security Error Reporting Using Register Globals User Submitted Data Magic Quotes Hiding PHP Keeping Current Features HTTP authentication with PHP Cookies Sessions Dealing with XForms Handling file uploads Using remote files Connection handling Persistent Database Connections Safe Mode Command line usage Garbage Collection DTrace Dynamic Tracing Function Reference Affecting PHP's Behaviour Audio Formats Manipulation Authentication Services Comm and Line Specific Extensions Compression and Archive Extensions Credit Card Processing Cryptography Extensions Database Extensions Date and Time Related Extensions File System Related Extensions Human Language and Character Encoding Support Image Processing and Generation Mail Related Extensions Mathematical Extensions Non-Text MIME Output Process Control Extensions Other Basic Extensions Other Services Search Engine Extensions Server Specific Extensions Session Extensions Text Processing Variable and Type Related Extensions Web Services Windows Only Extensions XML Manipulation GUI Extensions Keyboard Shortcuts? This help j Next menu item k Previous menu item g p Previous man page e n Next man page g Scroll to bottom m g Scroll to top g h Goto homepage e s Goto search(current page)/ Focus search box PHP is a popular general-purpose scripting language that is especially suited to web development. Fast, flexible and pragmatic, PHP powers everything from your blog to the most popular websites in the world. Download d7.1.26 Release Notes Upgrading 7.2.14 Release Notes Upgrading 7.3.1 Release Notes Upgrading 10 Jan 2019 PHP 5.6.40 Released The PHP development team announces the immediate availability of PHP

5.6.40. This is a security release. Several security bugs have been fixed in this release.

All PHP 5.6 users are encouraged to upgrade to this version. For source downloads of PHP 5.6.40 please visit our downloads page,

Windows source and binaries can be found on windows.php.net/download/.

The list of changes is recorded in the ChangeLog. Please note that according to the PHP version support timelines,

PHP 5.6.40 is the last scheduled release of PHP 5.6 branch. There may be additional releases if we discover

important security issues that warrant it, otherwise this release will be the final one in the PHP 5.6 branch.

If your PHP installation is based on PHP 5.6, it may be a good time to start making the plans for the upgrade

to PHP 7.1, PHP 7.2 or PHP 7.3.10 Jan 2019 PHP 7.1.26 Release Announcement The PHP development team announces the immediate availability of PHP

7.1.26. This is a security release which also contains several bug fixes. All PHP 7.1 users are encouraged to upgrade to this version. For source downloads of PHP 7.1.26 please visit our downloads page,

Windows source and binaries can be found on windows.php.net/download/.

The list of changes is recorded in the ChangeLog. 10 Jan 2019 PHP 7.3.1 Released The PHP development team announces the immediate availability of PHP

7.3.1. This is a security release which also contains several bug fixes. All PHP 7.3 users are encouraged to upgrade to this version. For source downloads of PHP 7.3.1 please visit our downloads page,

Windows source and binaries can be found on windows.php.net/download/.

The list of changes is recorded in the [ChangeLog](#).
10 Jan 2019 PHP 7.2.14 Released
The PHP development team announces the immediate availability of PHP

7.2.14. This is a security release which also contains several minor bug fixes. All PHP 7.2 users are encouraged to upgrade to this version. For source downloads of PHP 7.2.14 please visit our [downloads](#) page,

Windows source and binaries can be found on windows.php.net/download/.

The list of changes is recorded in the [ChangeLog](#).
06 Dec 2018 PHP 7.0.33 Released
The PHP development team announces the immediate availability of PHP

7.0.33. Five security-related issues were fixed in this release.

All PHP 7.0 users are encouraged to upgrade to this version. For source downloads of PHP 7.0.33 please visit our [downloads](#) page,

Windows source and binaries can be found on windows.php.net/download/.

The list of changes is recorded in the [ChangeLog](#). Please note that according to the PHP version support timelines,

PHP 7.0.33 is the last scheduled release of PHP 7.0 branch. There may be additional releases if we discover

important security issues that warrant it, otherwise this release will be the final one in the PHP 7.0 branch.

If your PHP installation is based on PHP 7.0, it may be a good time to start making the plans for the upgrade

to PHP 7.1, PHP 7.2 or PHP 7.3.
06 Dec 2018 PHP 7.1.25 Released
The PHP development team announces the immediate availability of PHP 7.1.25.

This is a security release. All PHP 7.1 users are encouraged to upgrade to this version. For source downloads of PHP 7.1.25 please visit our [downloads](#) page,

Windows source and binaries can be found on windows.php.net/download/.

The list of changes is recorded in the [ChangeLog](#).
22 Nov 2018 PHP 7.3.0RC6 Released
The PHP team is glad to announce the presumably last PHP 7.3.0 pre-release, PHP 7.3.0RC6.

The rough outline of the PHP 7.3 release cycle is specified in the [PHP Wiki](#). For source downloads of PHP 7.3.0RC6 please visit [the download page](#).

Windows sources and binaries can be found on windows.php.net/qa/. Please carefully test this version and report any issues found in the [bug reporting system](#). THIS IS A DEVELOPMENT PREVIEW - DO NOT USE IT IN PRODUCT ION! For more information on the new features and other changes, you can read the [NEWSfile](#),

or the [UPGRADINGfile](#) for a complete list of upgrading notes. Internal changes are listed in the [UPGRADING](#), [INTERNALSFfile](#).

These files can also be found in the [release archive](#). The next release would be 7.3.0 (GA), planned for December 6th. The signatures for the release can be found in the [manifesto](#) on the QA site. Thank you for helping us make PHP better.
08 Nov 2018 PHP 7.3.0RC5 Released
The PHP team is glad to announce the next PHP 7.3.0 pre-release, PHP 7.3.0RC5.

The rough outline of the PHP 7.3 release cycle is specified in the [PHP Wiki](#). For source downloads of PHP 7.3.0RC5 please visit [the download page](#).

Windows sources and binaries can be found on windows.php.net/qa/. Please carefully test this version and report any issues found in the [bug reporting system](#). THIS IS A DEVELOPMENT PREVIEW - DO NOT USE IT IN PRODUCT ION! For more information on the new features and other changes, you can read the [NEWSfile](#),

or theUPGRADINGfile for a complete list of upgrading notes. Internal changes are listed in theUPGRADING.INTERNALSFfile.

These files can also be found in the release archive.The next release would be RC6, planned for November 22nd.The signatures for the release can be found inthe manifestor onthe QA site.Thank you for helping us make PHP better.25 Oct 2018PHP 7.3.0RC4 ReleasedThe PHP team is glad to announce the next PHP 7.3.0 pre-release, PHP 7.3.0RC4.

The rough outline of the PHP 7.3 release cycle is specified in thePHP Wiki.For source downloads of PHP 7.3.0RC4 please visit thedownload page.

Windows sources and binaries can be found onwindows.php.net/qa/.Please carefully test this version and report any issues found in thebug reporting system.THIS IS A DEVELOPMENT PREVIEW - DO NOT USE IT IN PRODUCT ION!For more information on the new features and other changes, you can read theNEWSfile,

or theUPGRADINGfile for a complete list of upgrading notes. Internal changes are listed in theUPGRADING.INTERNALSFfile.

These files can also be found in the release archive.The next release would be RC5, planned for November 8th.The signatures for the release can be found inthe manifestor onthe QA site.Thank you for helping us make PHP better.11 Oct 2018PHP 7.3.0RC3 ReleasedThe PHP team is glad to announce the next PHP 7.3.0 pre-release, PHP 7.3.0RC3.

The rough outline of the PHP 7.3 release cycle is specified in thePHP Wiki.For source downloads of PHP 7.3.0RC3 please visit thedownload page.

Windows sources and binaries can be found onwindows.php.net/qa/.Please carefully test this version and report any issues found in thebug reporting system.THIS IS A DEVELOPMENT PREVIEW - DO NOT USE IT IN PRODUCT ION!For more information on the new features and other changes, you can read theNEWSfile,

or theUPGRADINGfile for a complete list of upgrading notes. Internal changes are listed in theUPGRADING.INTERNALSFfile.

These files can also be found in the release archive.The next release would be RC4, planned for October 25th.The signatures for the release can be found inthe manifestor onthe QA site.Thank you for helping us make PHP better.28 Sep 2018PHP 7.3.0RC2 ReleasedThe PHP team is glad to announce the next PHP 7.3.0 pre-release, PHP 7.3.0RC2.

The rough outline of the PHP 7.3 release cycle is specified in thePHP Wiki.For source downloads of PHP 7.3.0RC2 please visit thedownload page.

Windows sources and binaries can be found onwindows.php.net/qa/.Please carefully test this version and report any issues found in thebug reporting system.THIS IS A DEVELOPMENT PREVIEW - DO NOT USE IT IN PRODUCT ION!For more information on the new features and other changes, you can read theNEWSfile,

or theUPGRADINGfile for a complete list of upgrading notes. Internal changes are listed in theUPGRADING.INTERNALSFfile.

These files can also be found in the release archive.The next release would be RC3, planned for October 11th.The signatures for the release can be found inthe manifestor onthe QA site.Thank you for helping us make PHP better.13 Sep 2018PHP 7.3.0RC1 ReleasedThe PHP team is glad to announce the release of the next PHP 7.3.0 pre-release, PHP 7.3.0RC1.

The rough outline of the PHP 7.3 release cycle is specified in thePHP Wiki.For source downloads of PHP 7.3.0RC1 please visit thedownload page.

Windows sources and binaries can be found onwindows.php.net/qa/.Please carefully test this version and report any issues found in thebug reporting system.THIS IS A DEVELOPMENT PREVIEW - DO NOT USE IT IN PRODUCT

ION!For more information on the new features and other changes, you can read theNEWSfile, or theUPGRADINGfile for a complete list of upgrading notes. Internal changes are listed in theUPGRADING.INTERNALSfile.

These files can also be found in the release archive.The next release would be RC2, planned for September 27th.The signatures for the release can be found inthe manifestor onthe QA site.Thank you for helping us make PHP better.30 Aug 2018PHP 7.3.0.beta3 ReleasedThe PHP team is glad to announce the release of the seventh PHP 7.3.0 version, PHP 7.3.0beta3.

The rough outline of the PHP 7.3 release cycle is specified in thePHP Wiki.For source downloads of PHP 7.3.0beta3 please visit thedownload page.

Windows sources and binaries can be found onwindows.php.net/qa/.Please carefully test this version and report any issues found in thebug reporting system.THIS IS A DEVELOPMENT PREVIEW - DO NOT USE IT IN PRODUCT ION!For more information on the new features and other changes, you can read theNEWSfile, or theUPGRADINGfile for a complete list of upgrading notes. Internal changes are listed in theUPGRADING.INTERNALSfile.

These files can also be found in the release archive.The next release would be RC1, planned for September 13th.The signatures for the release can be found inthe manifestor onthe QA site.Thank you for helping us make PHP better.16 Aug 2018PHP 7.3.0.beta2 ReleasedThe PHP team is glad to announce the release of the sixth PHP 7.3.0 version, PHP 7.3.0beta2.

The rough outline of the PHP 7.3 release cycle is specified in thePHP Wiki.For source downloads of PHP 7.3.0beta2 please visit thedownload page.

Windows sources and binaries can be found onwindows.php.net/qa/.Please carefully test this version and report any issues found in thebug reporting system.THIS IS A DEVELOPMENT PREVIEW - DO NOT USE IT IN PRODUCT ION!For more information on the new features and other changes, you can read theNEWSfile, or theUPGRADINGfile for a complete list of upgrading notes. Internal changes are listed in theUPGRADING.INTERNALSfile.

These files can also be found in the release archive.The next release would be Beta 3, planned for August 30th.The signatures for the release can be found inthe manifestor onthe QA site.Thank you for helping us make PHP better.02 Aug 2018PHP 7.3.0.beta1 ReleasedThe PHP team is glad to announce the release of the fifth PHP 7.3.0 version, PHP 7.3.0beta1.

The rough outline of the PHP 7.3 release cycle is specified in thePHP Wiki.For source downloads of PHP 7.3.0beta1 please visit thedownload page.

Windows sources and binaries can be found onwindows.php.net/qa/.Please carefully test this version and report any issues found in thebug reporting system.THIS IS A DEVELOPMENT PREVIEW - DO NOT USE IT IN PRODUCT ION!For more information on the new features and other changes, you can read theNEWSfile,

or theUPGRADINGfile for a complete list of upgrading notes. These files can also be found in the release archive.The next release would be Beta 2, planned for August 16th.The signatures for the release can be found inthe manifestor onthe QA site.Thank you for helping us make PHP better.19 Jul 2018PHP 7.3.0alpha4 ReleasedThe PHP team is glad to announce the release of the fourth PHP 7.3.0 version, PHP 7.3.0alpha4.

The rough outline of the PHP 7.3 release cycle is specified in thePHP Wiki.For source downloads of PHP 7.3.0alpha4 please visit thedownload page.

Windows sources and binaries can be found onwindows.php.net/qa/.Please carefully test this version and report any issues found in thebug reporting system.THIS IS A DEVELOPMENT PREVIEW - DO NOT USE IT IN PRODUCT ION!For more information on the new features and other changes, you can read theNEWSfile,

or theUPGRADINGfile for a complete list of upgrading notes. These files can also be found in the release archive. The next release would be Beta 1, planned for August 2nd. The signatures for the release can be found in the manifest on the QA site. Thank you for helping us make PHP better. 05 Jul 2018 PHP 7.3.0 alpha 3 Released. The PHP team is glad to announce the release of the third PHP 7.3.0 version, PHP 7.3.0 Alpha 3.

The rough outline of the PHP 7.3 release cycle is specified in the PHP Wiki. For source downloads of PHP 7.3.0 Alpha 3 please visit the download page.

Windows sources and binaries can be found on windows.php.net/qa/. Please carefully test this version and report any issues found in the bug reporting system. THIS IS A DEVELOPMENT PREVIEW - DO NOT USE IT IN PRODUCTION! For more information on the new features and other changes, you can read the NEWS file,

or theUPGRADINGfile for a complete list of upgrading notes. These files can also be found in the release archive. The next release would be Beta 1, planned for July 19th. The signatures for the release can be found in the manifest on the QA site. Thank you for helping us make PHP better. 21 Jun 2018 PHP 7.3.0 alpha 2 Released. The PHP team is glad to announce the release of the second PHP 7.3.0 version, PHP 7.3.0 Alpha 2.

The rough outline of the PHP 7.3 release cycle is specified in the PHP Wiki. For source downloads of PHP 7.3.0 Alpha 2 please visit the download page.

Windows sources and binaries can be found on windows.php.net/qa/. Please carefully test this version and report any issues found in the bug reporting system. THIS IS A DEVELOPMENT PREVIEW - DO NOT USE IT IN PRODUCTION! For more information on the new features and other changes, you can read the NEWS file,

or theUPGRADINGfile for a complete list of upgrading notes. These files can also be found in the release archive. The next release would be Alpha 3, planned for July 5. The signatures for the release can be found in the manifest on the QA site. Thank you for helping us make PHP better. 07 Jun 2018 PHP 7.3.0 alpha 1 Released. The PHP team is glad to announce the release of the first PHP 7.3.0 version, PHP 7.3.0 Alpha 1.

This starts the PHP 7.3 release cycle, the rough outline of which is specified in the PHP Wiki. For source downloads of PHP 7.3.0 Alpha 1 please visit the download page. Please carefully test this version and report any issues found in the bug reporting system. Please DO NOT use this version in production, it is an early test version. For more information on the new features and other changes, you can read the NEWS file,

or theUPGRADINGfile for a complete list of upgrading notes. These files can also be found in the release archive. The next release would be Alpha 2, planned for June 21. The signatures for the release can be found in the manifest on the QA site. Thank you for helping us make PHP better. 01 Feb 2018 PHP 7.2.2 Released. The PHP development team announces the immediate availability of PHP

7.2.2. This is a bugfix release, with several bug fixes included. All PHP 7.2 users are encouraged to upgrade to this version. For source downloads of PHP 7.2.2 please visit our download page,

Windows source and binaries can be found on windows.php.net/download/.

The list of changes is recorded in the Change Log. 12 Oct 2017 PHP 7.2.0 Release Candidate 4 Released. The PHP development team announces the immediate availability of PHP 7.2.0 RC4.

This release is the fourth Release Candidate for 7.2.0.

All users of PHP are encouraged to test this version carefully, and report any bugs and incompatibilities in the bug tracking system. THIS IS A DEVELOPMENT PREVIEW - DO NOT USE IT IN PRODUCTION! For more information on the new features and other changes, you can read the NEWS file,

or theUPGRADINGfile for a complete list of upgrading notes. These files can also be found in the release archive. For source downloads of PHP 7.2.0 Release Candidate 4 please visit the download page,

Windows sources and binaries can be found at windows.php.net/qa/. The next Release Candidate will be announced on the 26th of October.

You can also read the full list of planned releases on our wiki. Thank you for helping us make PHP better.
28 Sep 2017 PHP 7.2.0 Release Candidate 3 Released The PHP development team announces the immediate availability of PHP 7.2.0 RC3.

This release is the third Release Candidate for 7.2.0.

All users of PHP are encouraged to test this version carefully, and report any bugs and incompatibilities in the bug tracking system. THIS IS A DEVELOPMENT PREVIEW - DO NOT USE IT IN PRODUCTION! For more information on the new features and other changes, you can read the NEWS file, or the UPGRADING file for a complete list of upgrading notes. These files can also be found in the release archive. For source downloads of PHP 7.2.0 Release Candidate 3 please visit the download page,

Windows sources and binaries can be found at windows.php.net/qa/. The next Release Candidate will be announced on the 12th of October.

You can also read the full list of planned releases on our wiki. Thank you for helping us make PHP better.
31 Aug 2017 PHP 7.2.0 Release Candidate 1 Released The PHP development team announces the immediate availability of PHP 7.2.0 Release

Candidate 1. This release is the first Release Candidate for 7.2.0.

All users of PHP are encouraged to test this version carefully, and report any bugs and incompatibilities in the bug tracking system. THIS IS A DEVELOPMENT PREVIEW - DO NOT USE IT IN PRODUCTION! For more information on the new features and other changes, you can read the NEWS file, or the UPGRADING file for a complete list of upgrading notes. These files can also be found in the release archive. For source downloads of PHP 7.2.0 Release Candidate 1 please visit the download page,

Windows sources and binaries can be found at windows.php.net/qa/. The second Release Candidate will be released on the 14th of September.

You can also read the full list of planned releases on our wiki. Thank you for helping us make PHP better.
17 Aug 2017 PHP 7.2.0 Beta 3 Released The PHP development team announces the immediate availability of PHP 7.2.0 Beta 3.

This release is the third and final beta for 7.2.0. All users of PHP are encouraged to test this version carefully, and report any bugs and incompatibilities in the bug tracking system. THIS IS A DEVELOPMENT PREVIEW - DO NOT USE IT IN PRODUCTION! For more information on the new features and other changes, you can read the NEWS file,

or the UPGRADING file for a complete list of upgrading notes. These files can also be found in the release archive. For source downloads of PHP 7.2.0 Beta 3 please visit the download page,

Windows sources and binaries can be found at windows.php.net/qa/. The first Release Candidate will be released on the 31st of August.

You can also read the full list of planned releases on our wiki. Thank you for helping us make PHP better.
06 Jul 2017 PHP 7.2.0 Alpha 3 Released The PHP development team announces the immediate availability of PHP 7.2.0 Alpha 3.

This release contains fixes and improvements relative to Alpha 2.

All users of PHP are encouraged to test this version carefully, and report any bugs and incompatibilities in the bug tracking system. THIS IS A DEVELOPMENT PREVIEW - DO NOT USE IT IN PRODUCTION! For more information on the new features and other changes, you can read the NEWS file, or the UPGRADING file

for a complete list of upgrading notes. These files can also be found in the release archive. For source downloads of PHP 7.2.0 Alpha 3 please visit the download page,

Windows sources and binaries can be found on [windows.php.net/qa/](#). The first beta will be released on the 20th of July. You can also read the full list of planned releases on [ourwiki](#). Thank you for helping us make PHP better. Older News Entries Conferences calling for papers CoderCruise 2019 Scotland PHP 2019 Upcoming conferences PHP[tek] 2019 Laracon Online Sunshine PHP 2019 Dutch PHP Conference 2019 User Group Events Special Thanks Social media @official_php Copyright © 2001-2019 The PHP Group My PHP.net Contact Other PHP.net sites Mirror sites Privacy policy

Convert text into tokens by splitting the text

```
In [4]: tokens = [t for t in text.split()]
print (tokens)
```


'also', 'contains', 'several', 'bug', 'fixes.All', 'PHP', '7.3', 'users', 'are', 'encouraged', 'to', 'upgrad e', 'to', 'this', 'version.For', 'source', 'downloads', 'of', 'PHP', '7.3.1', 'please', 'visit', 'ourdownload s', 'page,', 'Windows', 'source', 'and', 'binaries', 'can', 'be', 'found', 'onwindows.php.net/download./', 'T he', 'list', 'of', 'changes', 'is', 'recorded', 'in', 'theChangeLog.10', 'Jan', '2019PHP', '7.2.14', 'Releas edThe', 'PHP', 'development', 'team', 'announces', 'the', 'immediate', 'availability', 'of', 'PHP', '7.2.14.', 'This', 'is', 'a', 'security', 'release', 'which', 'also', 'contains', 'several', 'minor', 'bug', 'fixes.Al l', 'PHP', '7.2', 'users', 'are', 'encouraged', 'to', 'upgrade', 'to', 'this', 'version.For', 'source', 'down loads', 'of', 'PHP', '7.2.14', 'please', 'visit', 'ourdownloads', 'page,', 'Windows', 'source', 'and', 'binaries', 'can', 'be', 'found', 'onwindows.php.net/download./', 'The', 'list', 'of', 'changes', 'is', 'recorded', 'in', 'theChangeLog.06', 'Dec', '2018PHP', '7.0.33', 'ReleasedThe', 'PHP', 'development', 'team', 'announce s', 'the', 'immediate', 'availability', 'of', 'PHP', '7.0.33.', 'Five', 'security-related', 'issues', 'were', 'fixed', 'in', 'this', 'release.', 'All', 'PHP', '7.0', 'users', 'are', 'encouraged', 'to', 'upgrade', 'to', 'this', 'version.For', 'source', 'downloads', 'of', 'PHP', '7.0.33', 'please', 'visit', 'ourdownloads', 'pag e,', 'Windows', 'source', 'and', 'binaries', 'can', 'be', 'found', 'onwindows.php.net/download./', 'The', 'li st', 'of', 'changes', 'is', 'recorded', 'in', 'theChangeLog.Please', 'note', 'that', 'according', 'to', 'theP HP', 'version', 'support', 'timelines', 'PHP', '7.0.33', 'is', 'the', 'last', 'scheduled', 'release', 'of', 'PHP', '7.0', 'branch.', 'There', 'may', 'be', 'additional', 'release', 'if', 'we', 'discover', 'important', 'security', 'issues', 'that', 'warrant', 'it', 'otherwise', 'this', 'release', 'will', 'be', 'the', 'final', 'one', 'in', 'the', 'PHP', '7.0', 'branch.', 'If', 'your', 'PHP', 'installation', 'is', 'based', 'on', 'PHP', '7.0.', 'it', 'may', 'be', 'a', 'good', 'time', 'to', 'start', 'making', 'the', 'plans', 'for', 'the', 'upgra de', 'to', 'PHP', '7.1.', 'PHP', '7.2', 'or', 'PHP', '7.3.06', 'Dec', '2018PHP', '7.1.25', 'ReleasedThe', 'PH P', 'development', 'team', 'announces', 'the', 'immediate', 'availability', 'of', 'PHP', '7.1.25.', 'This', 'is', 'a', 'security', 'release.All', 'PHP', '7.1', 'users', 'are', 'encouraged', 'to', 'upgrade', 'to', 'thi s', 'version.For', 'source', 'downloads', 'of', 'PHP', '7.1.25', 'please', 'visit', 'ourdownloads', 'page,', 'Windows', 'source', 'and', 'binaries', 'can', 'be', 'found', 'onwindows.php.net/download./', 'The', 'list', 'of', 'changes', 'is', 'recorded', 'in', 'theChangeLog.22', 'Nov', '2018PHP', '7.3.0RC6', 'ReleasedThe', 'PH P', 'team', 'is', 'glad', 'to', 'announce', 'the', 'presumably', 'last', 'PHP', '7.3.0', 'pre-release', 'PH P', '7.3.0RC6.', 'The', 'rough', 'outline', 'of', 'the', 'PHP', '7.3', 'release', 'cycle', 'is', 'specified', 'in', 'thePHP', 'Wiki.For', 'source', 'downloads', 'of', 'PHP', '7.3.0RC6', 'please', 'visit', 'thedownload', 'page.', 'Windows', 'sources', 'and', 'binaries', 'can', 'be', 'found', 'onwindows.php.net/qa/.Please', 'care fully', 'test', 'this', 'version', 'and', 'report', 'any', 'issues', 'found', 'in', 'thebug', 'reporting', 's ystem.THIS', 'IS', 'A', 'DEVELOPMENT', 'PREVIEW', '-', 'DO', 'NOT', 'USE', 'IT', 'IN', 'PRODUCTION!For', 'more', 'information', 'on', 'the', 'new', 'features', 'and', 'other', 'changes', 'you', 'can', 'read', 'theNEWS file', 'or', 'theUPGRADINGfile', 'for', 'a', 'complete', 'list', 'of', 'upgrading', 'notes.', 'Internal', 'c hanges', 'are', 'listed', 'in', 'theUPGRADING.INTERNALfile.', 'These', 'files', 'can', 'also', 'be', 'foun d', 'in', 'the', 'release', 'archive.The', 'next', 'release', 'would', 'be', '7.3.0', '(GA)', 'planned', 'for', 'December', '6th.The', 'signatures', 'for', 'the', 'release', 'can', 'be', 'found', 'inthe', 'manifesto r', 'onthe', 'QA', 'site.Thank', 'you', 'for', 'helping', 'us', 'make', 'PHP', 'better.08', 'Nov', '2018PHP', '7.3.0RC5', 'ReleasedThe', 'PHP', 'team', 'is', 'glad', 'to', 'announce', 'the', 'next', 'PHP', '7.3.0', 'pre -release', 'PHP', '7.3.0RC5.', 'The', 'rough', 'outline', 'of', 'the', 'PHP', '7.3', 'release', 'cycle', 'is', 'specified', 'in', 'thePHP', 'Wiki.For', 'source', 'downloads', 'of', 'PHP', '7.3.0RC5', 'please', 'visi t', 'thedownload', 'page.', 'Windows', 'sources', 'and', 'binaries', 'can', 'be', 'found', 'onwindows.php.ne t/qa/.Please', 'carefully', 'test', 'this', 'version', 'and', 'report', 'any', 'issues', 'found', 'in', 'theb

ug', 'reporting', 'system.THIS', 'IS', 'A', 'DEVELOPMENT', 'PREVIEW', '-', 'DO', 'NOT', 'USE', 'IT', 'IN', 'PRODUCTION!For', 'more', 'information', 'on', 'the', 'new', 'features', 'and', 'other', 'changes,', 'you', 'can', 'read', 'theNEWSfile,', 'or', 'theUPGRADINGfile', 'for', 'a', 'complete', 'list', 'of', 'upgrading', 'notes.', 'Internal', 'changes', 'are', 'listed', 'in', 'theUPGRADING.INTERNALSFfile.', 'These', 'files', 'can', 'also', 'be', 'found', 'in', 'the', 'release', 'archive.The', 'next', 'release', 'would', 'be', 'RC6,', 'planned', 'for', 'November', '22nd.The', 'signatures', 'for', 'the', 'release', 'can', 'be', 'found', 'inthe', 'manifestor', 'onthe', 'QA', 'site.Thank', 'you', 'for', 'helping', 'us', 'make', 'PHP', 'better.25', 'Oct', '2018PHP', '7.3.0RC4', 'ReleasedThe', 'PHP', 'team', 'is', 'glad', 'to', 'announce', 'the', 'next', 'PHP', '7.3.0', 'pre-release,', 'PHP', '7.3.0RC4.', 'The', 'rough', 'outline', 'of', 'the', 'PHP', '7.3', 'release', 'cycle', 'is', 'specified', 'in', 'thePHP', 'Wiki.For', 'source', 'downloads', 'of', 'PHP', '7.3.0RC4', 'please', 'visit', 'thedownload', 'page.', 'Windows', 'sources', 'and', 'binaries', 'can', 'be', 'found', 'onwindows.php.net/qa/.Please', 'carefully', 'test', 'this', 'version', 'and', 'report', 'any', 'issues', 'found', 'in', 'thebug', 'reporting', 'system.THIS', 'IS', 'A', 'DEVELOPMENT', 'PREVIEW', '-', 'DO', 'NOT', 'USE', 'IT', 'IN', 'PRODUCTION!For', 'more', 'information', 'on', 'the', 'new', 'features', 'and', 'other', 'changes,', 'you', 'can', 'read', 'theNEWSfile,', 'or', 'theUPGRADINGfile', 'for', 'a', 'complete', 'list', 'of', 'upgrading', 'notes.', 'Internal', 'changes', 'are', 'listed', 'in', 'theUPGRADING.INTERNALSFfile.', 'These', 'files', 'can', 'also', 'be', 'found', 'in', 'the', 'release', 'archive.The', 'next', 'release', 'would', 'be', 'RC5,', 'planned', 'for', 'November', '8th.The', 'signatures', 'for', 'the', 'release', 'can', 'be', 'found', 'inthe', 'manifestor', 'onthe', 'QA', 'site.Thank', 'you', 'for', 'helping', 'us', 'make', 'PHP', 'better.11', 'Oct', '2018PHP', '7.3.0RC3', 'ReleasedThe', 'PHP', 'team', 'is', 'glad', 'to', 'announce', 'the', 'next', 'PHP', '7.3.0', 'pre-release,', 'PHP', '7.3.0RC3.', 'The', 'rough', 'outline', 'of', 'the', 'PHP', '7.3', 'release', 'cycle', 'is', 'specified', 'in', 'thePHP', 'Wiki.For', 'source', 'downloads', 'of', 'PHP', '7.3.0RC3', 'please', 'visit', 'thedownload', 'page.', 'Windows', 'sources', 'and', 'binaries', 'can', 'be', 'found', 'onwindows.php.net/qa/.Please', 'carefully', 'test', 'this', 'version', 'and', 'report', 'any', 'issues', 'found', 'in', 'thebug', 'reporting', 'system.THIS', 'IS', 'A', 'DEVELOPMENT', 'PREVIEW', '-', 'DO', 'NOT', 'USE', 'IT', 'IN', 'PRODUCTION!For', 'more', 'information', 'on', 'the', 'new', 'features', 'and', 'other', 'changes,', 'you', 'can', 'read', 'theNEWSfile,', 'or', 'theUPGRADINGfile', 'for', 'a', 'complete', 'list', 'of', 'upgrading', 'notes.', 'Internal', 'changes', 'are', 'listed', 'in', 'theUPGRADING.INTERNALSFfile.', 'These', 'files', 'can', 'also', 'be', 'found', 'in', 'the', 'release', 'archive.The', 'next', 'release', 'would', 'be', 'RC4,', 'planned', 'for', 'October', '25th.The', 'signatures', 'for', 'the', 'release', 'can', 'be', 'found', 'inthe', 'manifestor', 'onthe', 'QA', 'site.Thank', 'you', 'for', 'helping', 'us', 'make', 'PHP', 'better.28', 'Sep', '2018PHP', '7.3.0RC2', 'ReleasedThe', 'PHP', 'team', 'is', 'glad', 'to', 'announce', 'the', 'next', 'PHP', '7.3.0', 'pre-release,', 'PHP', '7.3.0RC2.', 'The', 'rough', 'outline', 'of', 'the', 'PHP', '7.3', 'release', 'cycle', 'is', 'specified', 'in', 'thePHP', 'Wiki.For', 'source', 'downloads', 'of', 'PHP', '7.3.0RC2', 'please', 'visit', 'thedownload', 'page.', 'Windows', 'sources', 'and', 'binaries', 'can', 'be', 'found', 'onwindows.php.net/qa/.Please', 'carefully', 'test', 'this', 'version', 'and', 'report', 'any', 'issues', 'found', 'in', 'thebug', 'reporting', 'system.THIS', 'IS', 'A', 'DEVELOPMENT', 'PREVIEW', '-', 'DO', 'NOT', 'USE', 'IT', 'IN', 'PRODUCTION!For', 'more', 'information', 'on', 'the', 'new', 'features', 'and', 'other', 'changes,', 'you', 'can', 'read', 'theNEWSfile,', 'or', 'theUPGRADINGfile', 'for', 'a', 'complete', 'list', 'of', 'upgrading', 'notes.', 'Internal', 'changes', 'are', 'listed', 'in', 'theUPGRADING.INTERNALSFfile.', 'These', 'files', 'can', 'also', 'be', 'found', 'in', 'the', 'release', 'archive.The', 'next', 'release', 'would', 'be', 'RC3,', 'planned', 'for', 'October', '11th.The', 'signatures', 'for', 'the', 'release', 'can', 'be', 'found', 'inthe', 'manifestor', 'onthe', 'QA', 'site.Thank', 'you', 'for', 'helping', 'us', 'make', 'PH

P', 'better.13', 'Sep', '2018PHP', '7.3.0RC1', 'ReleasedThe', 'PHP', 'team', 'is', 'glad', 'to', 'announce', 'the', 'release', 'of', 'the', 'next', 'PHP', '7.3.0', 'pre-release', 'PHP', '7.3.0RC1.', 'The', 'rough', 'outline', 'of', 'the', 'PHP', '7.3', 'release', 'cycle', 'is', 'specified', 'in', 'thePHP', 'Wiki.For', 'source', 'downloads', 'of', 'PHP', '7.3.0RC1', 'please', 'visit', 'thedownload', 'page.', 'Windows', 'sources', 'and', 'binaries', 'can', 'be', 'found', 'onwindows.php.net/qa/.Please', 'carefully', 'test', 'this', 'version', 'and', 'report', 'any', 'issues', 'found', 'in', 'thebug', 'reporting', 'system.THIS', 'IS', 'A', 'DEVELOPMENT', 'PREVIEW', '-', 'DO', 'NOT', 'USE', 'IT', 'IN', 'PRODUCTION!For', 'more', 'information', 'on', 'the', 'new', 'features', 'and', 'other', 'changes', 'you', 'can', 'read', 'theNEWSfile', 'or', 'theUPGRADINGfile', 'for', 'a', 'complete', 'list', 'of', 'upgrading', 'notes.', 'Internal', 'changes', 'are', 'listed', 'in', 'theUPGRADING.INTERNALfile.', 'These', 'files', 'can', 'also', 'be', 'found', 'in', 'the', 'release', 'archive.The', 'next', 'release', 'would', 'be', 'RC2,', 'planned', 'for', 'September', '27th.The', 'signatures', 'for', 'the', 'release', 'can', 'be', 'found', 'inthe', 'manifestor', 'onthe', 'QA', 'site.Thank', 'you', 'for', 'helping', 'us', 'make', 'PHP', 'better.30', 'Aug', '2018PHP', '7.3.0.beta3', 'ReleasedThe', 'PHP', 'team', 'is', 'glad', 'to', 'announce', 'the', 'release', 'of', 'the', 'seventh', 'PHP', '7.3.0', 'version', 'PHP', '7.3.0beta3.', 'The', 'rough', 'outline', 'of', 'the', 'PHP', '7.3', 'release', 'cycle', 'is', 'specified', 'in', 'thePHP', 'Wiki.For', 'source', 'downloads', 'of', 'PHP', '7.3.0beta3', 'please', 'visit', 'thedownload', 'page.', 'Windows', 'sources', 'and', 'binaries', 'can', 'be', 'found', 'onwindows.php.net/qa/.Please', 'carefully', 'test', 'this', 'version', 'and', 'report', 'any', 'issues', 'found', 'in', 'thebug', 'reporting', 'system.THIS', 'IS', 'A', 'DEVELOPMENT', 'PREVIEW', '-', 'DO', 'NOT', 'USE', 'IT', 'IN', 'PRODUCTION!For', 'more', 'information', 'on', 'the', 'new', 'features', 'and', 'other', 'changes', 'you', 'can', 'read', 'theNEWSfile', 'or', 'theUPGRADINGfile', 'for', 'a', 'complete', 'list', 'of', 'upgrading', 'notes.', 'Internal', 'changes', 'are', 'listed', 'in', 'theUPGRADING.INTERNALfile.', 'These', 'files', 'can', 'also', 'be', 'found', 'in', 'the', 'release', 'archive.The', 'next', 'release', 'would', 'be', 'RC1,', 'planned', 'for', 'September', '13th.The', 'signatures', 'for', 'the', 'release', 'can', 'be', 'found', 'inthe', 'manifestor', 'onthe', 'QA', 'site.Thank', 'you', 'for', 'helping', 'us', 'make', 'PHP', 'better.16', 'Aug', '2018PHP', '7.3.0.beta2', 'ReleasedThe', 'PHP', 'team', 'is', 'glad', 'to', 'announce', 'the', 'release', 'of', 'the', 'sixth', 'PHP', '7.3.0', 'version', 'PHP', '7.3.0beta2.', 'The', 'rough', 'outline', 'of', 'the', 'PHP', '7.3', 'release', 'cycle', 'is', 'specified', 'in', 'thePHP', 'Wiki.For', 'source', 'downloads', 'of', 'PHP', '7.3.0beta2', 'please', 'visit', 'thedownload', 'page.', 'Windows', 'sources', 'and', 'binaries', 'can', 'be', 'found', 'onwindows.php.net/qa/.Please', 'carefully', 'test', 'this', 'version', 'and', 'report', 'any', 'issues', 'found', 'in', 'thebug', 'reporting', 'system.THIS', 'IS', 'A', 'DEVELOPMENT', 'PREVIEW', '-', 'DO', 'NOT', 'USE', 'IT', 'IN', 'PRODUCTION!For', 'more', 'information', 'on', 'the', 'new', 'features', 'and', 'other', 'changes', 'you', 'can', 'read', 'theNEWSfile', 'or', 'theUPGRADINGfile', 'for', 'a', 'complete', 'list', 'of', 'upgrading', 'notes.', 'Internal', 'changes', 'are', 'listed', 'in', 'theUPGRADING.INTERNALfile.', 'These', 'files', 'can', 'also', 'be', 'found', 'in', 'the', 'release', 'archive.The', 'next', 'release', 'would', 'be', 'Beta', '3,', 'planned', 'for', 'August', '30th.The', 'signatures', 'for', 'the', 'release', 'can', 'be', 'found', 'inthe', 'manifestor', 'onthe', 'QA', 'site.Thank', 'you', 'for', 'helping', 'us', 'make', 'PHP', 'better.02', 'Aug', '2018PHP', '7.3.0.beta1', 'ReleasedThe', 'PHP', 'team', 'is', 'glad', 'to', 'announce', 'the', 'release', 'of', 'the', 'fifth', 'PHP', '7.3.0', 'version', 'PHP', '7.3.0beta1.', 'The', 'rough', 'outline', 'of', 'the', 'PHP', '7.3', 'release', 'cycle', 'is', 'specified', 'in', 'thePHP', 'Wiki.For', 'source', 'downloads', 'of', 'PHP', '7.3.0beta1', 'please', 'visit', 'thedownload', 'page.', 'Windows', 'sources', 'and', 'binaries', 'can', 'be', 'found', 'onwindows.php.net/qa/.Please', 'carefully', 'test', 'this', 'version', 'and', 'report', 'any', 'issues', 'found', 'in', 'thebug', 'reporting', 'system.THIS', 'IS', 'A',

'DEVELOPMENT', 'PREVIEW', '-', 'DO', 'NOT', 'USE', 'IT', 'IN', 'PRODUCTION!For', 'more', 'information', 'on', 'the', 'new', 'features', 'and', 'other', 'changes,', 'you', 'can', 'read', 'theNEWSfile,', 'or', 'theUPGRADINGfile', 'for', 'a', 'complete', 'list', 'of', 'upgrading', 'notes.', 'These', 'files', 'can', 'also', 'be', 'found', 'in', 'the', 'release', 'archive.The', 'next', 'release', 'would', 'be', 'Beta', '2,', 'planned', 'for', 'August', '16th.The', 'signatures', 'for', 'the', 'release', 'can', 'be', 'found', 'inthe', 'manifestor', 'onthe', 'QA', 'site.Thank', 'you', 'for', 'helping', 'us', 'make', 'PHP', 'better.19', 'Jul', '2018PHP', '7.3.0alpha4', 'ReleasedThe', 'PHP', 'team', 'is', 'glad', 'to', 'announce', 'the', 'release', 'of', 'the', 'fourth', 'PHP', '7.3.0', 'version,', 'PHP', '7.3.0alpha4.', 'The', 'rough', 'outline', 'of', 'the', 'PHP', '7.3', 'release', 'cycle', 'is', 'specified', 'in', 'thePHP', 'Wiki.For', 'source', 'downloads', 'of', 'PHP', '7.3.0alpha4', 'please', 'visit', 'thedownload', 'page.', 'Windows', 'sources', 'and', 'binaries', 'can', 'be', 'found', 'onwindows.php.net/qa/.Please', 'carefully', 'test', 'this', 'version', 'and', 'report', 'any', 'issues', 'found', 'in', 'thebug', 'reporting', 'system.THIS', 'IS', 'A', 'DEVELOPMENT', 'PREVIEW', '-', 'DO', 'NOT', 'USE', 'IT', 'IN', 'PRODUCTION!For', 'more', 'information', 'on', 'the', 'new', 'features', 'and', 'other', 'changes,', 'you', 'can', 'read', 'theNEWSfile,', 'or', 'theUPGRADINGfile', 'for', 'a', 'complete', 'list', 'of', 'upgrading', 'notes.', 'These', 'files', 'can', 'also', 'be', 'found', 'in', 'the', 'release', 'archive.The', 'next', 'release', 'would', 'be', 'Beta', '1,', 'planned', 'for', 'August', '2nd.The', 'signatures', 'for', 'the', 'release', 'can', 'be', 'found', 'inthe', 'manifestor', 'onthe', 'QA', 'site.Thank', 'you', 'for', 'helping', 'us', 'make', 'PHP', 'better.05', 'Jul', '2018PHP', '7.3.0', 'alpha', '3', 'ReleasedThe', 'PHP', 'team', 'is', 'glad', 'to', 'announce', 'the', 'release', 'of', 'the', 'third', 'PHP', '7.3.0', 'version,', 'PHP', '7.3.0', 'Alpha', '3.', 'The', 'rough', 'outline', 'of', 'the', 'PHP', '7.3', 'release', 'cycle', 'is', 'specified', 'in', 'thePHP', 'Wiki.For', 'source', 'downloads', 'of', 'PHP', '7.3.0', 'Alpha', '3', 'please', 'visit', 'thedownload', 'page.', 'Windows', 'sources', 'and', 'binaries', 'can', 'be', 'found', 'onwindows.php.net/qa/.Please', 'carefully', 'test', 'this', 'version', 'and', 'report', 'any', 'issues', 'found', 'in', 'thebug', 'reporting', 'system.THIS', 'IS', 'A', 'DEVELOPMENT', 'PREVIEW', '-', 'DO', 'NOT', 'USE', 'IT', 'IN', 'PRODUCTION!For', 'more', 'information', 'on', 'the', 'new', 'features', 'and', 'other', 'changes,', 'you', 'can', 'read', 'theNEWSfile,', 'or', 'theUPGRADINGfile', 'for', 'a', 'complete', 'list', 'of', 'upgrading', 'notes.', 'These', 'files', 'can', 'also', 'be', 'found', 'in', 'the', 'release', 'archive.The', 'next', 'release', 'would', 'be', 'Beta', '1,', 'planned', 'for', 'July', '19th.The', 'signatures', 'for', 'the', 'release', 'can', 'be', 'found', 'inthe', 'manifestor', 'onthe', 'QA', 'site.Thank', 'you', 'for', 'helping', 'us', 'make', 'PHP', 'better.21', 'Jun', '2018PHP', '7.3.0', 'alpha', '2', 'ReleasedThe', 'PHP', 'team', 'is', 'gl', 'to', 'announce', 'the', 'release', 'of', 'the', 'second', 'PHP', '7.3.0', 'version,', 'PHP', '7.3.0', 'Alpha', '2.', 'The', 'rough', 'outline', 'of', 'the', 'PHP', '7.3', 'release', 'cycle', 'is', 'specified', 'in', 'thePHP', 'Wiki.For', 'source', 'downloads', 'of', 'PHP', '7.3.0', 'Alpha', '2', 'please', 'visit', 'thedownload', 'page.', 'Windows', 'sources', 'and', 'binaries', 'can', 'be', 'found', 'onwindows.php.net/qa/.Please', 'carefully', 'test', 'this', 'version', 'and', 'report', 'any', 'issues', 'found', 'in', 'thebug', 'reporting', 'system.THIS', 'IS', 'A', 'DEVELOPMENT', 'PREVIEW', '-', 'DO', 'NOT', 'USE', 'IT', 'IN', 'PRODUCTION!For', 'more', 'information', 'on', 'the', 'new', 'features', 'and', 'other', 'changes,', 'you', 'can', 'read', 'theNEWSfile,', 'or', 'theUPGRADINGfile', 'for', 'a', 'complete', 'list', 'of', 'upgrading', 'notes.', 'These', 'files', 'can', 'also', 'be', 'found', 'in', 'the', 'release', 'archive.The', 'next', 'release', 'would', 'be', 'Alpha', '3,', 'planned', 'for', 'July', '5.The', 'signatures', 'for', 'the', 'release', 'can', 'be', 'found', 'inthe', 'manifestor', 'onthe', 'QA', 'site.Thank', 'you', 'for', 'helping', 'us', 'make', 'PHP', 'better.07', 'Jun', '2018PHP', '7.3.0', 'alpha', '1', 'ReleasedPHP', 'team', 'is', 'glad', 'to', 'announce', 'the', 'release', 'of', 'the', 'first', 'PHP', '7.3.0', 'version', 'PHP', '7.3.0',

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'report', 'any', 'bugs', 'and', 'incompatibilities', 'in', 'thebug', 'tracking', 'system.THIS', 'IS', 'A', 'D EVELOPMENT', 'PREVIEW', '-', 'DO', 'NOT', 'USE', 'IT', 'IN', 'PRODUCTION!For', 'more', 'information', 'on', 'the', 'new', 'features', 'and', 'other', 'changes', 'you', 'can', 'read', 'theNEWSfile', 'or', 'theUPGRADI NGfile', 'for', 'a', 'complete', 'list', 'of', 'upgrading', 'notes.', 'These', 'files', 'can', 'also', 'be', 'found', 'in', 'the', 'release', 'archive.For', 'source', 'downloads', 'of', 'PHP', '7.2.0', 'Release', 'Candidate', '1', 'please', 'visit', 'thedownloadpage', 'Windows', 'sources', 'and', 'binaries', 'can', 'be', 'found', 'atwindows.php.net/qa/.The', 'second', 'Release', 'Candidate', 'will', 'be', 'released', 'on', 'the', '14th', 'of', 'September.', 'You', 'can', 'also', 'read', 'the', 'full', 'list', 'of', 'planned', 'releases', 'onour', 'wiki.Thank', 'you', 'for', 'helping', 'us', 'make', 'PHP', 'better.17', 'Aug', '2017PHP', '7.2.0', 'Beta', '3', 'ReleasedThe', 'PHP', 'development', 'team', 'announces', 'the', 'immediate', 'availability', 'o f', 'PHP', '7.2.0', 'Beta', '3.', 'This', 'release', 'is', 'the', 'third', 'and', 'final', 'beta', 'for', '7. 2.0.', 'All', 'users', 'of', 'PHP', 'are', 'encouraged', 'to', 'test', 'this', 'version', 'carefully,', 'an d', 'report', 'any', 'bugs', 'and', 'incompatibilities', 'in', 'thebug', 'tracking', 'system.THIS', 'IS', 'A', 'DEVELOPMENT', 'PREVIEW', '-', 'DO', 'NOT', 'USE', 'IT', 'IN', 'PRODUCTION!For', 'more', 'information', 'on', 'the', 'new', 'features', 'and', 'other', 'changes', 'you', 'can', 'read', 'theNEWSfile', 'or', 'theU PGRADINGfile', 'for', 'a', 'complete', 'list', 'of', 'upgrading', 'notes.', 'These', 'files', 'can', 'also', 'be', 'found', 'in', 'the', 'release', 'archive.For', 'source', 'downloads', 'of', 'PHP', '7.2.0', 'Beta', '3', 'please', 'visit', 'thedownloadpage', 'Windows', 'sources', 'and', 'binaries', 'can', 'be', 'found', 'atwindows.php.net/qa/.The', 'first', 'Release', 'Candidate', 'will', 'be', 'released', 'on', 'the', '31th', 'o f', 'August.', 'You', 'can', 'also', 'read', 'the', 'full', 'list', 'of', 'planned', 'releases', 'onour', 'wi ki.Thank', 'you', 'for', 'helping', 'us', 'make', 'PHP', 'better.06', 'Jul', '2017PHP', '7.2.0', 'Alpha', '3', 'ReleasedThe', 'PHP', 'development', 'team', 'announces', 'the', 'immediate', 'availability', 'of', 'PH P', '7.2.0', 'Alpha', '3.', 'This', 'release', 'contains', 'fixes', 'and', 'improvements', 'relative', 'to', 'Alpha', '2.', 'All', 'users', 'of', 'PHP', 'are', 'encouraged', 'to', 'test', 'this', 'version', 'carefull y,', 'and', 'report', 'any', 'bugs', 'and', 'incompatibilities', 'in', 'thebug', 'tracking', 'system.THIS', 'IS', 'A', 'DEVELOPMENT', 'PREVIEW', '-', 'DO', 'NOT', 'USE', 'IT', 'IN', 'PRODUCTION!For', 'information', 'on', 'new', 'features', 'and', 'other', 'changes', 'you', 'can', 'read', 'theNEWSfile', 'or', 'theUPGRADINGf ile', 'for', 'a', 'complete', 'list', 'of', 'upgrading', 'notes.', 'These', 'files', 'can', 'also', 'be', 'found', 'in', 'the', 'release', 'archive.For', 'source', 'downloads', 'of', 'PHP', '7.2.0', 'Alpha', '3', 'plea se', 'visit', 'thedownloadpage', 'Windows', 'sources', 'and', 'binaries', 'can', 'be', 'found', 'onwindows.p hp.net/qa/.The', 'first', 'beta', 'will', 'be', 'released', 'on', 'the', '20th', 'of', 'July.', 'You', 'can', 'also', 'read', 'the', 'full', 'list', 'of', 'planned', 'releases', 'on', 'ourwiki.Thank', 'you', 'for', 'hel ping', 'us', 'make', 'PHP', 'better.Older', 'News', 'EntriesConferences', 'calling', 'for', 'papersCoderCruise', '2019ScotlandPHP', '2019Upcoming', 'conferencesphp[tek]', '2019Laracon', 'OnlineSunshinePHP', '2019Dutc h', 'PHP', 'Conference', '2019User', 'Group', 'EventsSpecial', 'ThanksSocial', 'media@official_phpCopyright', '@', '2001-2019', 'The', 'PHP', 'GroupMy', 'PHP.netContactOther', 'PHP.net', 'sitesMirror', 'sitesPrivacy', 'policy']

Count Word Frequency

Calculate the frequency distribution of those tokens using Python NLTK. There is a function in NLTK called FreqDist() that does the job:

```
In [5]: freq = nltk.FreqDist(tokens)
for key,val in freq.items():
    print (str(key) + ':' + str(val))
```

DataMagic:1
encouraged:12
5.The:1
options:1
releases:5
helping:18
page)/Focus:1
7.1.26.:1
final:3
ConnectionsSafe:1
also:26
Conference:1
XFormsHandling:1
line:1
most:1
next:20
RC2,:1
PHPKeeping:1
GenerationMail:1
second:2
announces:12
©:1
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to:43
ExplainedPredefined:1
sitesPrivacy:1
Candidate:14
3,:2
nNext:1
7.2.2.:1
1.:2
NOT:18
recorded:7
Register:1
2019User:1
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StructuresFunctionsClasses:1
7.3.0.beta2:1
ExtensionsCompression:1
GroupMy:1
world.Download7.1.26.Release:1
October:2

7.3.0beta2.:1
release:79
wiki.Thank:4
can:78
listed:8
read:23
file:1
improvements:1
VariablesPredefined:1
7.3.0beta3:1
start:2
itemg:1
fifth:1
7.2.0.:4
Control:1
your:3
more:17
7.3.0RC2:2
us:18
7.3.0.beta1:1
Time:1
ExtensionsKeyboard:1
considerationsInstalled:1
7.3.0:23
scripting:1
31th:1
22nd.The:1
You:5
7.3.06:1
7.3.0RC6.:1
theChangeLog.Please:2
release.:3
several:4
Group:1
7.3.0RC4:2
4:2
7.1,:2
system.THIS:17
page.Please:1
IT:17
ReferenceAffecting:1
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ReleasedThe:23

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7.3.0beta1:1
7.3:14
better.30:1
conferencesphp[tek]:1
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onwindows.php.net/qa/.Please:12
papersCoderCruise:1
page,:7
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CurrentFeaturesHTTP:1
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7.0.33.:1
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onwindows.php.net/qa/.The:1
21.The:1
IN:17
Apache:1
plans:2
October.:2
7.3.1:2
There:2
first:4
December:1
2019PHP:4
RC3.:1
downloads:25
changes,:18
onwindows.php.net/download/:7
alpha:3
were:1
announce:13
7.3.0RC1.:1
boxPHP:1
policy:1
warrant:2
2019Dutch:1
system.Please:1
a:27
have:1
Sep:3
helpjNext:1

7.3.0RC5:2
test:19
7.3.0RC6:2
Notes·Upgrading10:1
search(current:1
Jun:2
planned:18
would:13
better.01:1
20th:1
PreprocessorDownloadsDocumentationGet:1
7.1.25:2
thedownloadpage,:5
any:18
1:4
sixth:1
be:79
timelines,:2
7.2.14:2
Oct:3
itemkPrevious:1
3:8
site.Thank:13
remote:1
2001-2019:1
7.3.0beta2:1
QuotesHiding:1
availability:12
for:69
7.3.0beta3.:1
visit:25
PHP::1
onthe:13
important:2
changes:15
hGoto:1
PHP:149
in:70
gScroll:1
binaryInstalled:1
7.3.0RC1:2
glad:13
DEVELOPMENT:17

calling:1
Language:1
PRODUCTION!For:17
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```

If we search the output, we'll find that the most frequent token is PHP. We can plot a graph for those tokens using plot function like this:

```
In [6]: freq.plot(20, cumulative = False)
```

```
<Figure size 640x480 with 1 Axes>
```

From the graph, we can be sure that this article is talking about PHP. Great! There are some words like "the," "of," "a," "an," and so on. These words are stop words. Generally, stop words should be removed to prevent them from affecting our results.

Remove Stop Words Using NLTK

```
In [7]: from nltk.corpus import stopwords  
stopwords.words('english')  
  
clean_tokens = tokens[:]  
for token in tokens:  
    if token in stopwords.words('english'):  
        clean_tokens.remove(token)
```

```
In [8]: freq = nltk.FreqDist(clean_tokens)
for key,val in freq.items():
    print (str(key) + ':' + str(val))
```

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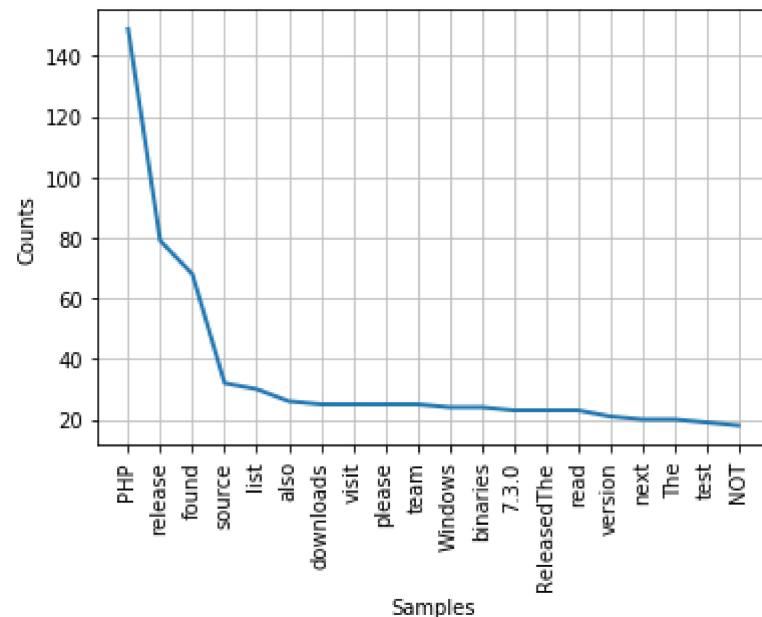
2.:2
release.All:1
Encoding:1
ProcessingCryptography:1
included.All:1
14th:1
2018PHP:16
Processing:1
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In [9]: freq.plot(20, cumulative = False)



In []: