

# Software Development Tools

- [Base64 Encoder](#)
- [String Length Calculator](#)
- [URL Encoder](#)
- [XML/XHTML Encoder](#)

# Base64 Encoder

Base64 encoding is a popular way for applications to share data by converting bytes into human-readable characters.

## About the Base64 Encoder & Decoder tool

This online base64 encoder and base64 decoder allows you to convert plain text to and from the base64 encoding.

## Use Cases

Use the Base64 Encoder & Decoder tool on Solid Tools for Developers to:

- Convert plain text into base64 encoding to test applications that require base64-encoded text
- Convert base64-encoded text back into plain text to debug an application's response

## Usage

To encode plain text into base64-encoded text, type or paste the text into the first text-area (labelled "plain-text string") and click the "Encode" button. The base64-encoded string will appear in the second text-area.

To decode base64-encoded text back into plain text, type or paste the text into the second text-area (labelled "base64-encoded string") and click the "Decode" button. The plain-text string will appear in the first text-area.

# String Length Calculator

Calculate the length of a string in characters, words, sentences and paragraphs.

## About the String Length Calculator tool

When dealing with database fields or APIs that require text to be a specific length, it can be useful to have a tool that can quickly tell you exactly how long a string is.

Enter the String Length Calculator!

## Use Cases

Use the String Length Calculator tool on Solid Tools for Developers to:

- Count the exact number of characters in a string
- Analyse a string to count words and paragraphs

## Usage

Type or paste the string you wish to calculate into the text-area.

## Results

The calculator will tell you how many characters, paragraphs and words there are in the string you entered.

Example:

“ Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut non porta orci. Duis quis augue non lacus condimentum euismod nec vehicula sem. Quisque lacinia diam nec diam egestas, vel pretium ex luctus. Sed convallis odio ac leo tincidunt placerat. Nullam est lacus, lobortis eget pellentesque id, ultrices sit amet sapien. Nulla ligula diam, efficitur non ligula vitae, vehicula placerat tellus. Ut efficitur, lacus nec mattis facilisis, neque lorem suscipit ligula, a tempor elit ex at libero. Nulla a purus faucibus, venenatis lectus eget, vehicula arcu. Fusce scelerisque

eget neque iaculis convallis. Sed pretium ullamcorper odio. Fusce posuere hendrerit euismod. Duis posuere justo in mi pulvinar, nec mollis dolor vulputate. Duis vitae tristique ligula. Suspendisse vel sem et justo fermentum tempor vel eget leo.

Aenean eros nisi, vulputate sit amet aliquam quis, dignissim eget magna. Aenean tempus justo in nunc elementum malesuada. Proin odio metus, iaculis nec euismod accumsan, tincidunt eu metus. Quisque non augue vel libero ultricies tincidunt sit amet vitae lacus. Duis nec efficitur velit, vel laoreet justo. Ut volutpat, felis mollis commodo vehicula, dui nunc sodales elit, in vehicula metus elit eget tortor. Nunc accumsan eros ut ex semper dignissim at vitae sem. Nulla sed ullamcorper leo, eget maximus ex. Morbi tellus ligula, condimentum id pulvinar a, venenatis id lacus. Praesent porta tellus id est ornare porttitor. Nunc sollicitudin commodo interdum.

#### Result:

The string you entered is 1,479 characters long.

It contains 223 words.

It contains 26 sentences.

It contains 1 paragraph.

# URL Encoder

Convert strings to and from URL-safe encoding.

## About the URL Encoder & Decoder tool

There are several characters in a URL (web address) that have a special meaning - such as #, ?, & and =. If you need to pass these characters through to an application in its [URL \(Uniform Resource Locator\)](#) you need to encode them. This is known as URL encoding.

This online URL encoder and URL decoder converts a string to and from URL encoding.

## Use Cases

Use the URL Encoder & Decoder tool on Solid Tools for Developers to:

- Replace special characters in a string with their URL-encoded equivalent
- Replace URL-encoded characters with their original, un-encoded equivalent

## Usage

To replace special characters in a string with their URL-encoded equivalent, type or paste the text into the first text-area (labelled "string to URL-encode") and click the "Encode" button. The URL-encoded string will appear in the second text-area.

To replace encoded characters back into their un-encoded equivalent, type or paste the text into the second text-area (labelled "URL-encoded string") and click the "Decode" button. The un-encoded string will appear in the first text-area.

# XML/XHTML Encoder

Convert text to and from XML/XHTML-safe encoding.

## About the XML/XHTML Encoder & Decoder tool

There are several characters in XML and HTML documents that have a special meaning - such as < and >. If you need to include these characters in the content of an XML or HTML document, you need to encode them. This is known as XML encoding.

This online XML/XHTML encoder and URL decoder converts special characters in a string to and from XML encoding.

## Use Cases

Use the XML/XHTML Encoder & Decoder tool on Solid Tools for Developers to:

- Replace special characters in a string with their XML-encoded equivalent
- Replace XML-encoded characters with their original, un-encoded equivalent

## Usage

To replace special characters in a string with their XML-encoded equivalent, type or paste the text into the first text-area (labelled "string to encode") and click the "Encode" button. The XML-encoded string will appear in the second text-area.

To replace encoded characters back into their un-encoded equivalent, type or paste the text into the second text-area (labelled "string to decode") and click the "Decode" button. The un-encoded string will appear in the first text-area.