Vinvl

A virtual file format. When a file is read by src(), a Vinyl object is generated to represent the file - including the path, contents, and other metadata.

Vinyl objects can have transformations applied using plugins. They may also be persisted to the file system using dest().

When creating your own Vinyl objects - instead of generating with src() - use the external vinyl module, as shown in Usage below.

Usage

```
const Vinyl = require('vinyl');
const file = new Vinyl({
 cwd: '/',
 base: '/test/'.
 path: '/test/file.js',
 contents: new Buffer('var x = 123')
});
file.relative === 'file.js';
file.dirname === '/test':
file.dirname = '/specs';
file.path === '/specs/file.is':
file.basename === 'file.js';
file.basename = 'file.txt';
file.path === '/specs/file.txt';
file.stem === 'file';
file.stem = 'foo';
file.path === '/specs/foo.txt':
file.extname === '.txt';
file.extname = '.is':
file.path === '/specs/foo.js';
```

Signature

new Vinyl([options])

Parameters

parameter type note

options objectDetailed in Options below.

Returns

An instance of the Vinyl class representing a single virtual file, detailed in Vinyl instancebelow.

Errors

When any passed options don't conform to the instance property definitions (like if path is set to a number) throws as defined in the table.

Options

name type default note

The directory from which relative paths will be

cwd string process.cwd()derived. Will be normalized and have trailing

separators removed.

name	type	default	note Used to calculate the relativeinstance property.			
base	string		Falls back to the value of cwd if not set. Typically set to the glob base. Will be normalized and have trailing separators removed.			
path	string		The full, absolute file path. Will be normalized and have trailing separators removed.			
history	array	[]	An array of paths to pre-populate the history of a Vinyl instance. Usually comes from deriving a new Vinyl object from a previous Vinyl object. If pathand history are both passed, path is appended to history. Each item will be normalized and have trailing separators removed.			
stat	object		An instance of fs.Stats, usually the result of calling fs.stat() on a file. Used to determine if a Vinyl object represents a directory or symbolic link.			
R	teadableStrea	ım	The contents of the file. If contents is a			
contents	Buffer null	null	ReadableStream, it is wrapped in a cloneable- readable stream.			
Any other properties on options will be directly assigned to the Vinyl instance.						

const Vinyl = require('vinyl');

const file = new Vinyl({ foo: 'bar' });

file.foo === 'bar';

Vinyl instance

cwd

string

Each instance of a Vinyl object will have properties and methods to access and/or modify information about the virtual file.

Instance properties

All internally managed paths - any instance property except contents and stat - are normalized and have trailing separators removed. See Normalization and concatenationfor more information.

property type description throws
Gets and sets the

ReadableStream contents of the virtual file.

contents

Buffer null
ReadableStream, it is wrapped in a cloneable-readable stream.

Gets and sets an instance of fs.Stats. Used when stat

object
determining if a Vinyl object represents a directory or symbolic link.

Gets and sets the current working directory. Used If set to an empty string or any non-string value.

for deriving relative paths.

property	type	description Gets and sets the base	throws		
base	string	directory. Used to calculate the relativeinstance property. On a Vinyl object generated by src() will be set to the glob base. If set to null or undefined, falls back to the value of	If set to an empty string or any non-string value (except null or undefined).		
path	string	the cwdinstance property. Gets and sets the full, absolute file path. Setting to a value different from the current pathappends the new path to the historyinstance property. Array of all pathvalues the	If set to any non-string value.		
history	array	Vinyl object has been assigned. The first element is the original path and the last element is the current path. This property and its elements should be treated as read-only and only altered indirectly by setting the pathinstance property.			
relative	string	Gets the relative path segment between the base and the path instance properties.	If set to any value. If accessed when path is not available.		
dirname	string	Gets and sets the directory of the pathinstance property. Gets and sets the stem	If accessed when path is not available.		
stem	string	(filename without extension) of the path instance property.	If accessed when path is not available.		
extname	string	Gets and sets the extension of the pathinstance property. Gets and sets the	If accessed when path is not available.		
basename	string	filename (stem + extname) of the pathinstance property.	If accessed when path is not available.		
symlink	string	Gets and sets the reference path of a symbolic link.	If set to any non-string value.		
Instance method	ls	,			
	return typer	eturns			
isBuffer()	boolean If the contents instance property is a Buffer, returns true.				
isStream() isNull()	boolean If the contents instance property is a Stream, returns true boolean If the contents instance property is null, returns true.				

method return typereturns If the instance represents a directory, returns true. An instance is considered a directory when isNull()returns true, the stat instance isDirectory() boolean property is an object, and stat.isDirectory() returns true. This assumes a Vinyl object was constructed with a valid (or properly mocked) fs.Stats object. If the instance represents a symbolic link, returns true. An instance is considered symbolic when isNull()returns true, the stat instance boolean property is an object, and stat.isSymbolicLink() returns true. This isSymbolic() assumes a Vinyl object was constructed with a valid (or properly mocked) fs.Stats object. A new Vinyl object with all properties cloned. By default custom properties are deep cloned. If the deep option is false, custom clone([options]) object attributes will be shallow cloned. If the contents option is false and the contents instance property is a Buffer, the Buffer will be reused instead of cloned. Returns a formatted interpretation of the Vinyl object. inspect() strina Automatically called by Node's console.log.

Normalization and concatenation

All path properties are normalized by their setters. Concatenate paths with /, instead of using path.join(), and normalization will occur properly on all platforms. Never concatenate with \ - it is a valid filename character on POSIX system.

```
const file = new File();
file.path = '/' + 'test' + '/' + 'foo.bar';

console.log(file.path);
// posix => /test/foo.bar
// win32 => \\test\\foo.bar
```