

Welcome to `gatsby@4.6.0` release (January 2022 #2)

Key highlights of this release:

- [Speeding Up Subsequent Queries](#)
- [Tracking Image Changes in Markdown Files](#)
- [New Major Version for `gatsby-plugin-utils`](#)

Also check out [notable bugfixes](#).

Bleeding Edge: Want to try new features as soon as possible? Install `gatsby@next` and let us know if you have any [issues](#).

[Previous release notes](#)

[Full changelog](#)

Speeding Up Subsequent Queries

Subsequent queries now get a ~10-15% performance boost! You'll see this improvement after your first `gatsby build` for all following runs (unless the cache is cleared). These percentage may defer depending on the complexity of nodes. We were able to achieve this by caching `rootNode` & `trackedRootNodes` across instances of `graphqlRunner` via [PR #33695](#)

Tracking Image Changes in Markdown Files

When using an image inside markdown files together with `gatsby-remark-images` (e.g. `![alt text](./some-image.jpg)`) there were cases when a change to the image wasn't reflected in the site. Changes like resizing or directly editing the image required a `gatsby clean` in the past. This broken functionality is now fixed with [PR #34433](#) and changed images will now directly show during `gatsby develop` and `gatsby build`.

New Major Version for `gatsby-plugin-utils`

You can [configure plugin options](#) for your plugins and [unit test](#) the options schema using helper functions from `gatsby-plugin-utils`. The schema validation for the options schema now **does not** throw errors anymore on warnings like unknown keys (see [PR that implemented this](#) for more information). This fixed an issue where default values were not passed through to the plugin if e.g. unknown keys were used.

Here's a short list of changes you'll need to make or be aware of:

- [pluginOptionsSchema](#) returns warnings instead of errors now for unknown keys
- [testPluginOptionsSchema](#) now returns `warnings` and `hasWarnings` in addition to the existing values
- Default options you set in your plugin option schema are now correctly passed through to the plugin, even when a user sets unknown keys

Migration

Here's a short before/after example on how to migrate your test when you're checking for unknown keys.

Before:

```
// The plugin doesn't take any options
exports.pluginOptionsSchema = ({ Joi }) => Joi.object({})
```

```
import { testPluginOptionsSchema } from "gatsby-plugin-utils"
import { pluginOptionsSchema } from "../gatsby-node"

it(`should not accept any options`, async () => {
  const expectedErrors = [`"optionA" is not allowed`]

  const { errors } = await testPluginOptionsSchema(
    pluginOptionsSchema,
    {
      optionA: `This options shouldn't exist`,
    }
  )

  expect(errors).toEqual(expectedErrors)
})
```

After:

```
import { testPluginOptionsSchema } from "gatsby-plugin-utils"
import { pluginOptionsSchema } from "../gatsby-node"

it(`should not accept any options`, async () => {
  const expectedWarnings = [`"optionA" is not allowed`]

  const { warnings, isValid, hasWarnings } = await testPluginOptionsSchema(
    pluginOptionsSchema,
    {
      optionA: `This options shouldn't exist`,
    }
  )
  expect(isValid).toBe(true)
  expect(hasWarnings).toBe(true)
  expect(warnings).toEqual(expectedWarnings)
})
```

Notable Bugfixes & Improvements

- `gatsby-plugin-manifest` : Generate icons sequentially, via [PR #34331](#)
- `create-gatsby` : Fixed an issue where user-provided `GATSBY_TELEMETRY_DISABLED` environment variable did not disable telemetry, via [PR #34495](#)
- `gatsby-sharp` : Create more resilient wrapper around sharp, via [PR #34339](#)
- `gatsby-source-contentful` : Enable tag support for assets, via [PR #34480](#)
- `gatsby` : Optimized queries that filter just on `id` , via [PR #34520](#)

Contributors

A big **Thank You** to [our community who contributed](#) to this release ❤️

- [newhouse](#): Update plugins.md to have correct URL for gatsby-plugin-segment-js [PR #34397](#)
- [AnilSeervi](#)
 - chore(docs): Old occurrences of gatbyjs.org [PR #34402](#)
 - chore(docs) : Typo fix GatsbyImage -> GatsbyImage [PR #34439](#)
- [janaagaard75](#): Upgrade to strip-ansi ^6.0.1 [PR #34383](#)
- [varghesejose2020](#)
 - chore(docs): Update static-folder doc [PR #34392](#)
 - chore(docs): Update localization doc [PR #34429](#)
 - chore(docs): Update links on plugins overview doc [PR #34479](#)
 - chore(docs): Update links on gatsby-for-ecommerce [PR #34517](#)
- [jazanne](#): Fix misspelling of "precedence" in log message [PR #34428](#)
- [fedek6](#): Update media-item-processing.md [PR #34434](#)
- [jfgilmore](#)
 - chore(docs): webpack branding guidelines updated [PR #34470](#)
 - chore(docs): Fix broken link to `gatsby-plugin-guess.js` [PR #34469](#)
- [ferdi05](#): chore(docs): Add MeiliSearch [PR #34478](#)
- [axe312ger](#): fix(contentful): enable tag support for assets [PR #34480](#)
- [herecydev](#): fix(gatsby): handle session storage not being available [PR #34525](#)
- [homearanya](#)
 - docs(migrating-from-v2-to-v3): correct getNode snippet [PR #34542](#)
 - docs(migrating-from-v3-to-v4): correct getNode snippet [PR #34543](#)
- [njbmartin](#): fix(plugin-schema-snapshot): unlink file on init [PR #34527](#)
- [merceyz](#): fix: add missing dependencies [PR #28759](#)
- [ShaunDychko](#): chore(docs): Update client-only self-hosting instructions [PR #34537](#)