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# Ruby on Rails 7.0 Release Notes

Highlights in Rails 7.0:

- Ruby 2.7.0+ required, Ruby 3.0+ preferred
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## Upgrading to Rails 7.0

If you're upgrading an existing application, it's a great idea to have good test coverage before going in. You should also first upgrade to Rails 6.1 in case you haven't and make sure your application still runs as expected before attempting an update to Rails 7.0. A list of things to watch out for when upgrading is available in the [Upgrading Ruby on Rails](#) guide.

## Major Features

### Railties

Please refer to the [Changelog](#) for detailed changes.

### Removals

- Remove deprecated `config` in `dbconsole` .

### Deprecations

### Notable changes

- Sprockets is now an optional dependency

The gem `rails` doesn't depend on `sprockets-rails` anymore. If your application still needs to use Sprockets, make sure to add `sprockets-rails` to your Gemfile.

```
gem "sprockets-rails"
```

## Action Cable

Please refer to the [Changelog](#) for detailed changes.

### Removals

### Deprecations

### Notable changes

## Action Pack

Please refer to the [Changelog](#) for detailed changes.

### Removals

- Remove deprecated `ActionDispatch::Response.return_only_media_type_on_content_type` .
- Remove deprecated `Rails.config.action_dispatch.hosts_response_app` .
- Remove deprecated `ActionDispatch::SystemTestCase#host!` .
- Remove deprecated support to passing a path to `fixture_file_upload` relative to `fixture_path` .

## Deprecations

### Notable changes

## Action View

Please refer to the [Changelog](#) for detailed changes.

### Removals

- Remove deprecated `Rails.config.action_view.raise_on_missing_translations` .

## Deprecations

### Notable changes

- `button_to` infers HTTP verb [method] from an Active Record object if object is used to build URL

```
``ruby button_to("Do a POST", [:do_post_action, Workshop.find(1)])
```

## Before

```
#=>
```

## After

```
#=>
```

## Action Mailer

Please refer to the [Changelog](#) for detailed changes.

### Removals

- Remove deprecated `ActionMailer::DeliveryJob` and `ActionMailer::Parameterized::DeliveryJob` in favor of `ActionMailer::MailDeliveryJob` .

## Deprecations

### Notable changes

## Active Record

Please refer to the [Changelog](#) for detailed changes.

## Removals

- Remove deprecated `database` kwarg from `connected_to` .
- Remove deprecated `ActiveRecord::Base.allow_unsafe_raw_sql` .
- Remove deprecated option `:spec_name` in the `configs_for` method.
- Remove deprecated support to YAML load `ActiveRecord::Base` instance in the Rails 4.2 and 4.1 formats.
- Remove deprecation warning when `:interval` column is used in PostgreSQL database.

Now, interval columns will return `ActiveSupport::Duration` objects instead of strings.

To keep the old behavior, you can add this line to your model:

```
attribute :column, :string
```

- Remove deprecated support to resolve connection using `"primary"` as connection specification name.
- Remove deprecated support to quote `ActiveRecord::Base` objects.
- Remove deprecated support to type cast to database values `ActiveRecord::Base` objects.
- Remove deprecated support to pass a column to `type_cast` .
- Remove deprecated `DatabaseConfig#config` method.
- Remove deprecated rake tasks:
  - `db:schema:load_if_ruby`
  - `db:structure:dump`
  - `db:structure:load`
  - `db:structure:load_if_sql`
  - `db:structure:dump:#{name}`
  - `db:structure:load:#{name}`
  - `db:test:load_structure`
  - `db:test:load_structure:#{name}`
- Remove deprecated support to `Model.reorder(nil).first` to search using non-deterministic order.
- Remove deprecated `environment` and `name` arguments from `Tasks::DatabaseTasks.schema_up_to_date?` .
- Remove deprecated `Tasks::DatabaseTasks.dump_filename` .
- Remove deprecated `Tasks::DatabaseTasks.schema_file` .
- Remove deprecated `Tasks::DatabaseTasks.spec` .
- Remove deprecated `Tasks::DatabaseTasks.current_config` .
- Remove deprecated `ActiveRecord::Connection#allowed_index_name_length` .

- Remove deprecated `ActiveRecord::Connection#in_clause_length` .
- Remove deprecated `ActiveRecord::DatabaseConfigurations::DatabaseConfig#spec_name` .

## Deprecations

- Deprecated `Tasks::DatabaseTasks.schema_file_type` .

## Notable changes

- Rollback transactions when the block returns earlier than expected.

Before this change, when a transaction block returned early, the transaction would be committed.

The problem is that timeouts triggered inside the transaction block was also making the incomplete transaction to be committed, so in order to avoid this mistake, the transaction block is rolled back.

- Merging conditions on the same column no longer maintain both conditions, and will be consistently replaced by the latter condition.

```
```ruby
```

## Rails 6.1 (IN clause is replaced by merger side equality condition)

```
Author.where(id: [david.id, mary.id]).merge(Author.where(id: bob)) # => [bob]
```

## Rails 6.1 (both conflict conditions exists, deprecated)

```
Author.where(id: david.id..mary.id).merge(Author.where(id: bob)) # => []
```

## Rails 6.1 with rewhere to migrate to Rails 7.0's behavior

```
Author.where(id: david.id..mary.id).merge(Author.where(id: bob), rewhere: true) # => [bob]
```

## Rails 7.0 (same behavior with IN clause, mergee side condition is consistently replaced)

```
Author.where(id: [david.id, mary.id]).merge(Author.where(id: bob)) # => [bob]
Author.where(id: david.id..mary.id).merge(Author.where(id: bob)) # => [bob]
```

## Active Storage

Please refer to the [Changelog](#) for detailed changes.

## Removals

## Deprecations

## Notable changes

## Active Model

Please refer to the [Changelog](#) for detailed changes.

### Removals

- Remove deprecated enumeration of `ActiveModel::Errors` instances as a Hash.
- Remove deprecated `ActiveModel::Errors#to_h`.
- Remove deprecated `ActiveModel::Errors#slice!`.
- Remove deprecated `ActiveModel::Errors#values`.
- Remove deprecated `ActiveModel::Errors#keys`.
- Remove deprecated `ActiveModel::Errors#to_xml`.
- Remove deprecated support concat errors to `ActiveModel::Errors#messages`.
- Remove deprecated support to `clear` errors from `ActiveModel::Errors#messages`.
- Remove deprecated support to `delete` errors from `ActiveModel::Errors#messages`.
- Remove deprecated support to use `[]=` in `ActiveModel::Errors#messages`.
- Remove support to Marshal and YAML load Rails 5.x error format.
- Remove support to Marshal load Rails 5.x `ActiveModel::AttributeSet` format.

## Deprecations

## Notable changes

## Active Support

Please refer to the [Changelog](#) for detailed changes.

### Removals

- Remove deprecated `config.active_support.use_shal_digests`.
- Remove deprecated `URI.parser`.
- Remove deprecated support to use `Range#include?` to check the inclusion of a value in a date time range is deprecated.
- Remove deprecated `ActiveSupport::Multibyte::Unicode.default_normalization_form`.

## Deprecations

- Deprecate passing a format to `#to_s` in favor of `#to_fs` in `Array`, `Range`, `Date`, `DateTime`, `Time`, `BigDecimal`, `Float` and `Integer`.

This deprecation is to allow Rails application to take advantage of a Ruby 3.1 [optimization](#) that makes interpolation of some types of objects faster.

New applications will not have the `#to_s` method overridden on those classes, existing applications can use `config.active_support.disable_to_s_conversion`.

## Notable changes

## Active Job

Please refer to the [Changelog](#) for detailed changes.

### Removals

- Removed deprecated behavior that was not halting `after_enqueue` / `after_perform` callbacks when a previous callback was halted with `throw :abort`.
- Remove deprecated `:return_false_on_aborted_enqueue` option.
- Remove deprecated `ActiveRecord::Base.connection_config`.
- Remove deprecated `ActiveRecord::Base.arel_attribute`.
- Remove deprecated `ActiveRecord::Base.configurations.default_hash`.
- Remove deprecated `ActiveRecord::Base.configurations.to_h`.
- Remove deprecated `ActiveRecord::Result#map!` and `ActiveRecord::Result#collect!`.
- Remove deprecated `ActiveRecord::Base#remove_connection`.

### Deprecations

- Deprecate `Rails.config.active_job.skip_after_callbacks_if_terminated`.

## Notable changes

## Action Text

Please refer to the [Changelog](#) for detailed changes.

### Removals

### Deprecations

## Notable changes

## Action Mailbox

Please refer to the [Changelog](#) for detailed changes.

### Removals

- Removed deprecated `Rails.application.credentials.action_mailbox.mailgun_api_key` .
- Removed deprecated environment variable `MAILGUN_INGRESS_API_KEY` .

## Deprecations

## Notable changes

## Ruby on Rails Guides

Please refer to the [Changelog](#) for detailed changes.

## Notable changes

## Credits

See the [full list of contributors to Rails](#) for the many people who spent many hours making Rails, the stable and robust framework it is. Kudos to all of them.