Sprinix Lazy Load Extension

Sprinix LazyLoad extension is designed to enhance the performance and responsiveness of your online store by optimizing image delivery. This extension offers a suite of features that ensure your images load efficiently, look great on all devices, and contribute to a smoother user experience.

Key Features:

1. **Lazy Loading for Images:**

   - Automatically implement lazy loading for all images on your website. This defers the loading of off-screen images until the user scrolls to them, significantly improving initial page load times and reducing bandwidth usage.

2. **Height and Width Attributes:**

   - Ensure that all images have proper height and width attributes. This helps prevent layout shifts and provides a more stable and faster-rendering page, as browsers can allocate space for images before they are fully loaded.

3. **Responsive Images with Srcset:**

   - Add `srcset` attributes to your images for responsive design. This allows browsers to choose the appropriate image size based on the user's device and screen resolution, ensuring optimal display quality and performance.

4. **Picture Tag Conversion:**

   - Convert all standard `<img>` tags to `<picture>` tags. This provides enhanced flexibility for serving different image formats (e.g., WebP) and resolutions, further optimizing load times and visual fidelity.

5. **Lazy Loading for Background Images:**

   - Extend lazy loading functionality to background images specified in CSS. This feature ensures that background images are only loaded when they come into view, reducing unnecessary data transfer and enhancing page speed.

6. **Breakpoints and Width for Background Images:**

   - Define breakpoints and widths for background images, allowing for responsive background image loading. This ensures that background images are appropriately scaled and optimized for different screen sizes, maintaining visual quality without compromising performance.

Installation Instructions

- **If you want to Install this extension using composer follow these steps :**

  $ bin/composer require sprinix/module-LazyLoad

  $ bin/composer require kub-at/php-simple-html-dom-parser

  $ bin/composer require rosell-dk/dom-util-for-webp

  $ composer update

$ bin/magento setup:upgrade

$ bin/magento setup:di:compile

- **If you don't want to install via composer, you can use this way.**

  1 . Download Sprinix 'LazyLoad.zip' file.

  2 . Extract Sprinix 'LazyLoad.zip' file to 'app/code/Sprinix/LazyLoad'.

  3 . You should create a folder path 'app/code/Sprinix/LazyLoad' if not exist.

  4 . Go to Magento root folder and run following commands to install 'Sprinix_LazyLoad':

  $ bin/composer require kub-at/php-simple-html-dom-parser

  $ bin/composer require rosell-dk/dom-util-for-webp

  $ bin/magento setup:upgrade

  $ bin/magento setup:di:compile

  $ bin/magento setup:static-content:deploy -f

  5. Now all the new settings of this extension can be seen in the project Admin.

Compatibility

Compatible upto 2.4.6 Magento versions.

Admin Store Configuration

To Configure the SprinixLazyLoad Extension for your stores follow the path given below:
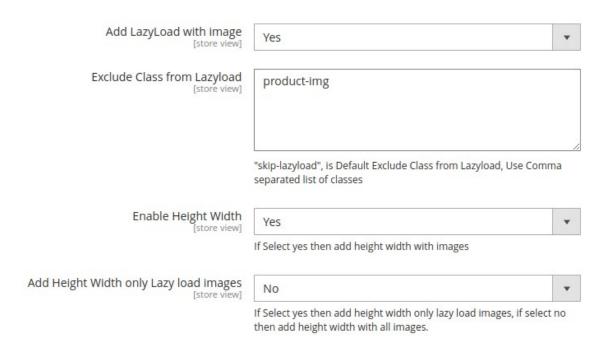STORES -> Configuration -> Sprinix ->Lazy Load

Module Enable: Select Yes to enable the extension, if the field is set to No
then the module will not add Responsive Image Functionality for the stores.

Skip Responsive Image Functionality on Actions: Add the Actions Name (Use Comma
separated list of actions) on which you want to skip responsive image functionality.

Lazy Load Settings

- **Add LazyLoad with image:** Select yes if you want to add a lazyload attribute with images.

- **Exclude Class from Lazyload:** Add the image class name ("skip-lazyload", is Default Exclude Class from Lazyload, Use Comma separated list of classes) on which image you want to skip the lazyLoad attribute.

skip-lazyload is the Default Class for the skip lazyLoad attribute with images you can add this class on any image and skip the lazyLoad attribute for the image.

- **Enable Height Width:** Select yes if you want to add (height, width) attribute with images.

```
<img loading="lazy" srcset="https://local.mymagento.com/media/wysiwyg/home/home-main.jpg?
quality=80&amp;bg-color=255%2C255%2C255&amp;fit=bounds&amp;height=144&amp;width=400,
https://local.mymagento.com/media/wysiwyg/home/home-main.jpg?quality=80&amp;bg-
color=255%2C255%2C255&amp;fit=bounds&amp;height=180&amp;width=500 1.25x,
https://local.mymagento.com/media/wysiwyg/home/home-main.jpg?quality=80&amp;bg-
color=255%2C255%2C255&amp;fit=bounds&amp;height=216&amp;width=600 1.5x" height="460" width="1280"
src="https://local.mymagento.com/media/wysiwyg/home/home-main.jpg" alt="" class="webpexpress-
processed">
```

- **Add Height Width only Lazy load images:** Select yes if you want to add height width only on images which are lazy loaded, and if select no then add height width with all images. (which images have class excluded from lazyload will not have height/width added if this setting is marked as **No**).

Responsive Images

- **Enable srcset breakpoints:** Select yes if you want to add srcset (breakpoints) attribute with images.

```
<img loading="lazy" srcset="https://local.mymagento.com/media/wysiwyg/home/home-main.jpg?
quality=80&amp;bg-color=255%2C255%2C255&amp;fit=bounds&amp;height=144&amp;width=400,
https://local.mymagento.com/media/wysiwyg/home/home-main.jpg?quality=80&amp;bg-
color=255%2C255%2C255&amp;fit=bounds&amp;height=180&amp;width=500 1.25x,
https://local.mymagento.com/media/wysiwyg/home/home-main.jpg?quality=80&amp;bg-
color=255%2C255%2C255&amp;fit=bounds&amp;height=216&amp;width=600 1.5x" height="460" width="1280"
src="https://local.mymagento.com/media/wysiwyg/home/home-main.jpg" alt="" class="webpexpress-
processed">
```

- **Add class to skip srcset:** Add the image class name ("skip-srcset", is Default Class for skip srcset, Use Comma separated list of classes if want to add more custom classes") on which image you want to skip srcset attribute.
  skip-srcset is the Default Class for the skip srcset attribute with images you can add this class on any image and skip the srcset attribute for the image.

- **Full action name based add custom breakpoints:** Add the action name and add breakpoints on which Action you want to add srcset breakpoints.

- **Class based add custom breakpoints:** Add the image class name and add breakpoints on which image you want to add class based srcset breakpoints. This will override action based breakpoints.

  We can add breakpoints like
  1. {"product-image-photo":"165w,400w,250w,500w,700w,900w,1080w,1376w||(min-width: 1000px) calc(25vw - 37px), calc(50vw - 22px)"}
  2. {"product-image-photo":"400,500,600"}

- **Srcset Additional Query String:** You can add (Use "&") list of query strings with srcset url. You can add additional fastly params to image url i.e. (quality=80&bg-color=255,255,255&fit=bounds).

- **Remove Fastly Params**: You can add (Use Comma separated) list of fastly params to remove from srcset url i.e. quality, fit.

- **Add Picture Tag:** Select yes if you want to convert image tags to picture tag images.

- **Enable lazyLoad with background image:** Select yes if you want to add lazyLoad with Background Image.

- **Add background Image MobileBreakpoints:** Add the breakpoints with mobile background images (Use Comma separated list of breakpoints) .
  We can add breakpoints like – 993,768,460,400,375,275