# Table of Contents

***Web Images*** ..... 1
Rules ..... 1
Image Dimensions ..... 1
Image File Size ..... 1
Compression Tools ..... 1

# Web Images

## Rules

### Image Dimensions

- Image Size = Viewport Size.
  - An image has to be equal or max 1% bigger than the maximum viewport size.
  - If you need to cater for variable size viewports, you should use the @media tag and use multiple images
- Never resize images in code.

### Image File Size

- Make sure your image is as small as possible
  - Compress your images using the most compressible image type, jpg is preferable if no transparency is required.

| File Type | Transparency | Animation | Size | Quality | Chrome | Firefox | Edge |
|---|---|---|---|---|---|---|---|
| JPG | No | No | Very Small | Good | Yes | Yes | Yes |
| PNG | Yes | No | Medium | Very Good | Yes | Yes | Yes |
| APNG | Yes | Yes | Medium-Big | Very Good | Yes | Yes | **No** |
| ZopfliPNG | Yes | No | Small | Very Good | Yes | Yes | Yes |
| GIF | Yes | Yes | Medium-Big | Bad | Yes | Yes | Yes |
| Brotli | Yes | No | Very Small-Small | Very Good | Yes | Yes | Yes |
| SVG | Yes | Yes | Very Small | Very Good | Yes | Yes | Yes |

## Compression Tools

| Tool | Compression | Quality |
|---|---|---|
| **PNG** | | |
| Guetzli | Very Good | Very Good |
| optiPNG | Very Good | Very Good |
| Brotli | Very Good | Very Good |
| TinyPNG | Very Good | Very Good |
| **JPG** | | |
| yum install jpegoptim | Very Good | Very Good |
| Brotli | Very Good | Very Good |
| TinyPNG | Very Good | Very Good |
| **SVG** | | |
| esgtools | Very Good | Very Good |

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