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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 Type 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 | Compressions Type |
|-----------|--------------|-----------|------------------|-----------|-------------------|
| JPG | No | No | Very Small | Good | Lossy |
| PNG | Yes | No | Medium | Very Good | Lossless |
| APNG | Yes | Yes | Medium-Big | Very Good | Lossless |
| GIF | Yes | Yes | Medium-Big | Bad | Lossless |
| Brotli | Yes | No | Small-Very Small | Very Good | Lossless |
| SVG | Yes | Yes | Very Small | Perfect | Lossless |
| WebP | Yes | Yes | Very Small | Very Good | Lossless |

Image Type Browser Support

| File Type | Edge | Firefox | Chrome | Safari | Opera | iOS Safari | Opera Mini | Android Browser | Opera Mobile | Chrome for Android | Firefox for Android | Samsung Internet |
|-----------|------|---------|--------|--------|-------|------------|------------|-----------------|--------------|--------------------|---------------------|------------------|
| JPG | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| PNG | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| APNG | No | Yes | Yes | Yes | Yes | Yes | No | No | Yes | Yes | Yes | No |
| GIF | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Brotli | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes |
| SVG | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| WebP | Yes | No | Yes | No | Yes | No | Yes | Yes | Yes | Yes | No | Yes |

Note: Firefox will be supporting WebP in the near future (65+), Firefox for android will not yet

Compression Tools

| Tool | Compression | Quality | Tool Type |
|-------------------------|-------------|-----------|-----------|
| PNG | | | |
| Guetzli | Very Good | Very Good | Local |

| Tool | Compression | Quality | Tool Type |
|---------------------------|--------------------|----------------|------------------|
| optiPNG | Very Good | Very Good | Local |
| Brotli | Very Good | Very Good | Local |
| TinyPNG | Very Good | Very Good | External |
| ZopfliPNG | Very Good | Very Good | Local |
| JPG | | | |
| yum install jpegoptim | Very Good | Very Good | Local |
| Brotli | Very Good | Very Good | Local |
| TinyPNG | Very Good | Very Good | External |
| SVG | | | |
| esgtools | Very Good | Perfect | Local |

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