Understanding px to em to percentages for responsive design

target ÷ context = result

If we assume the body’s default type size to be 16px, we can plug each desired font-size value into this formula. So to properly match our header to the comp, we divide the target value (24px) by the font-size of its container (16px):

24 ÷ 16 = 1.5

So the header is 1.5 times the default body size, or 1.5em, which we can plug directly into our stylesheet.

h1 {

font-family: Georgia, serif;

font-size: 1.5em; /\* 24px / 16px = 1.5em \*/

}

When dealing with text, em and % are pretty much equivalent:  
100% == 1em  
50% == 0.5em

When designing grids, I would straight up think in percentages (or columns) rather than do that conversion by hand.

body {

font-family: 'Source Sans Pro', sans-serif;

font-size: 20px;

line-height: 1.5;

cursor: default;

}

.wrapper {

max-width: 1280px;

margin: auto;

}

h1 {

font-size: 2em;

line-height: 1;

}

h2 {

font-size: 1.5em;

font-weight: bold;

}

h3 {

font-family: 'Merriweather', serif;

font-size: 1.25em;

font-weight: bold;

}

p {

margin: 0 0 1.5em 0;

}

.button {

font-family: 'Oswald', sans-serif;

text-decoration: none;

text-transform: uppercase;

letter-spacing: 1px;

font-weight: bold;

background: yellow;

color: black;

display: block;

text-align: center;

padding: 12px;

box-shadow: inset 0 -3px 0 rgba(0,0,0,.2);

border-radius: 5px;

}

#page-header {

background: black;

color: white;

overflow: hidden;

border-bottom: 4px solid yellow;

padding: 0 3%;

}

#page-header a {

color: inherit;

text-decoration: none;

}

#page-header h1 {

float: left;

color: yellow;

font-family: 'Merriweather', serif;

font-size: 1.5em;

margin: 20px 0 0 0;

}

#page-header nav {

float: right;

}

#page-header nav li {

float: left;

}

#page-header nav a {

display: block;

padding: 20px 15px;

}

#page-header nav li a:hover {

color: yellow;

}

#page-header nav li.active a {

background: #666;

}

#page-header nav strong {

font-family: 'Oswald', sans-serif;

text-transform: uppercase;

}

#page-header nav strong a {

}

.tagline {

font-family: 'Merriweather', serif;

text-align: center;

margin: 0;

padding: 1em 3%;

font-size: 1.25em;

line-height: 1em;

font-style: italic;

background: #C6C6C6;

border-top: 1px solid #AAA;

}

.tagline del {

color: #999;

}

.tagline ins {

text-decoration: none;

border-bottom: 3px solid yellow;

}

.banner {

background: url(../images/coworking.jpg) center center no-repeat;

background-size: cover;

overflow: hidden;

padding: 3%;

box-shadow: inset 0 0 5px rgba(0,0,0,.75);

}

.blurb {

background: rgba(255,255,255,.8);

width: 34%;

margin: 0 auto;

padding: 4%;

float: right;

box-shadow: 0 0 5px rgba(0,0,0,.75);

}

.touts {

background: #EEE;

background: white;

overflow: hidden;

padding: 2% 0;

}

.tout {

float: left;

width: 27.3333%;

padding: 2% 3%;

box-shadow: inset -1px 0 0 rgba(0,0,0,.15);

}

.tout:last-child {

box-shadow: none;

}

.tout .button {

background: #C6C6C6;

}

.profiles {

background: #C6C6C6;

padding: 10px;

}

.cards {

overflow: hidden;

}

.card {

float: left;

width: 25%;

}

.card img {

max-width: 100%;

}

.card article {

background: white;

margin: 10px;

padding: 10px;

}

.card .button {

font-size: .75em;

}

.tags {

overflow: hidden;

margin-bottom: 10px;

}

.tags li {

float: left;

}

.tags li a {

display: block;

background: #666;

padding: 1px 12px;

border-radius: 100px;

font-size: .75em;

margin: 0 5px 5px 0;

color: white;

text-decoration: none;

}

footer {

background: black;

color: white;

padding: 2% 3%;

}

@media screen and (max-width: 640px) {

.touts {

background-color: yellow;

}

.touts {

width: 100%;

float: none;

}

body{

font-size: 14px;

}

.desktop-only {

display: none;

}

/\*

#hamburger {

width: 60px;

height: 60px;

position: relative;

cursor: pointer;

border: 3px solid $primary;

border-radius: 4px;

float: right;

}

#hamburger span {

display: block;

position: absolute;

height: 4px;

width: 60%;

background: yellow;

opacity: 1;

left: 50%;

margin-top: 29%;

}

#hamburger span:nth-child(1) {

top: 0px;

}

#hamburger span:nth-child(2) {

top: 8px;

}

#hamburger span:nth-child(3) {

top: 16px;

}

\*/

.hamberger-icon:before {

}

.tagline{

display: none;

}

.blurb{

width: 60%;

float:none;

}

}