

VisiBone Browser Book

VisiBone Browser Book

Style Sheet @-Rules

Style Sheet Pseudo-Classes

Style Sheet Pseudo-Elements

@charset ISO-8859-1|...

@import url(url.css); (N6)

styles from a file

@link {prop:val;...}

= <body link>

a:visited {prop:val;...}

= <body vlink>

@font-face downloadable

{font-family:font-family;

src:url(url.pfb|url.ttf);

many more descriptors ;}

a:active {prop:val;...}

= <body alink> (N6)

element:active {prop:val;...}

a:hover {prop:val;...}

(mouse over hyperlink)

element:hover {prop:val;...}

a:focus {prop:val;...}

(seen when tabbing) (N6)

element:before (prefix)

element:after (suffix)

(N6)

@media {all screen print ...}

:first :left :right

printed page layout

@page {size width height auto }

landscape portrait ;

margins:...; as {margin}

marks: crop cross none;}

Style Sheet Distance Units

px pixels

pt points (1/72 in)

pc picas (1/6 in)

em current {font-size}

ex height of a small x

in inches

mm millimeters

cm centimeters

element:first-letter of a ¶

{property:value;...} (N6)

element:first-line of a ¶

{property:value;...} (N6)

element:lang(human-lang)

element:first-child

element:left see @page

element:right see @page

Three examples of CSS in a web page

by tag

http://www.visibone.com/css/x.css

body {color:black; background-color:white;}

http://www.visibone.com/css/x.html

<html><head><title>CSS Examples</title>

<link rel="stylesheet" type="text/css" href="x.css" />

<style type="text/css">

.fruity {color:red;}

</style></head><body>

<p class="fruity">Apple tree.</p>

<p>Lime zest.</p>

ad hoc span

Lower-case elements and attributes: <TD VALIGN="top"> → <td valign="top">

<i> Nasty Nesting </i> → <i> Nice Nesting </i>

**
 →
 Slashify empty elements (always put a space before the slash)**

<p>paragraph→<p>paragraph</p> Endify nonempty elements, even if there's no content <p></p>

**Quotify all attribute values: <ol type="a"> → <ol type="a"> or <ol type='a'>, even empty values **

Don't <!-- comment --> style and script elements

Don't use < or & or]> or -- in style or script elements (but ok in <link>'d files). Doesn't this crimp your JavaScript!

Encode & in URL's or other attribute values: <form action="go.cgi&level=1">

No line breaks or multiple spaces in attribute values (inside the quotes)

Use name and id together (except radio buttons)

Use lang and xml:lang together <html lang="en" xml:lang="en">

Character set, specify it once: <?xml encoding="ISO-8859-1"?>

Character set, specify it twice: <meta http-equiv="Content-type" content="text/html; charset="ISO-8859-1" />

azimuth: sound direction

Odeg | center | 90deg | right-side | 180deg | behind | -90deg | left-side | ... ;

background:

color image repeat attachment position;

background-color:

color | transparent; on <body>, <td>,

background-image: (-Op) none | url(url.gif url.jpg);

background-repeat:

repeat-x | repeat-y | repeat | no-repeat;

background-attachment:

scroll | fixed; (background motion when scrolling)

background-position:

npx | ... | npx | ... | npx | ... | left | center | center | right

background-position-x: n (pixels);

background-position-y: n (pixels);

behavior:

url(url.htm) | url(#object-id);

border: line(s) around extra margin or padding color style width; (IE5.5)

border-color: as {color} color | color color color transparent;

border-top-color (N6)

border-right-color

border-bottom-color

border-left-color: color; same as {color}

border-style: style | style style style; ;

border-top-style (N6)

border-right-style

border-bottom-style

border-left-style:

none solid | dotted dashed double groove ridge inset outset; ;

border-width: width width width width ;

border-top-width (N6)

border-right-width

border-bottom-width

border-left-width: npx | npt | nem | nr% | ... ;

border-collapse: (IE5.5) between cells (-Sf,-Kq) collapse (thin flat lines) separate (ridged lines); ;

border-spacing: (N6) between cell borders npx | npt | nem | nr% | ... ;

bottom: see {position}

caption-side: top | bottom | left | right; ;

clear: = <br clear>

(end of image flow-around) left | right | both | none; ;

clip: visual limits

auto | rect(top,right,bottom,left); ;

color: text foreground

#rrggb #rgb (0-FF) (0-F) rgb(rr,gg,bb) (0-255) rgb(r%,g%,b%) (0-100) black | white | red | blue | ... activeborder | activecaption | buttonface | buttonhighlight | buttonshadow | buttontext | captiontext | graytext | highlight | highlighttext | inactiveborder | inactivecaption | inactivecaptiontext | infobackground | infotext | menu | menutext | scrollbar | threeddarkshadow | threedeighthighlight | threelightshadow | threeshadow | window | windowframe | windowtext; ;

content: (used with :before and :after pseudo-elements)

counter-increment: name number;

counter-reset: name number;

cue cue-after cue-before: url(url.wav url.au ...); ;

cursor: when hovering

auto (N6) crosshair default (arrow) (N6) hand (indicating pointer (N6) clickability) move n|ne|e|se|s|sw|w|nw-resize text (I-bar) (N6) wait (hourglass) (N6) help (arrow with ?) url(url); ;

direction:ltr | rtl

display: appears as

inline as block as <div> list-item as none vanishes, takes up no space on screen ;

visibility:hidden

run-in anti- (stuffs a heading in 1st line of ¶) compact marker table as <table> inline-table inline-block (IE5.5) table-header-group table-footer-group table-row-group table-column as <tr> table-cell as <td> table-caption ;

font-family: @font face

prioritized comma-separated list of font names: Arial Font Card Helvetica Times New Roman A A A A designed for CRT screens Georgia Microsoft Comic Sans MS serif sans-serif monospace (Kq) of the list fantasy (N6,IE5.2,-Kq) cursive (IE5.2,-Kq) ;

font-size:

0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 | 144 | 145 | 146 | 147 | 148 | 149 | 150 | 151 | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 | 160 | 161 | 162 | 163 | 164 | 165 | 166 | 167 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 | 176 | 177 | 178 | 179 | 180 | 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 | 201 | 202 | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 | 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 223 | 224 | 225 | 226 | 227 | 228 | 229 | 230 | 231 | 232 | 233 | 234 | 235 | 236 | 237 | 238 | 239 | 240 | 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 | 256 | 257 | 258 | 259 | 260 | 261 | 262 | 263 | 264 | 265 | 266 | 267 | 268 | 269 | 270 | 271 | 272 | 273 | 274 | 275 | 276 | 277 | 278 | 279 | 280 | 281 | 282 | 283 | 284 | 285 | 286 | 287 | 288 | 289 | 290 | 291 | 292 | 293 | 294 | 295 | 296 | 297 | 298 | 299 | 300 | 301 | 302 | 303 | 304 | 305 | 306 | 307 | 308 | 309 | 310 | 311 | 312 | 313 | 314 | 315 | 316 | 317 | 318 | 319 | 320 | 321 | 322 | 323 | 324 | 325 | 326 | 327 | 328 | 329 | 330 | 331 | 332 | 333 | 334 | 335 | 336 | 337 | 338 | 339 | 340 | 341 | 342 | 343 | 344 | 345 | 346 | 347 | 348 | 349 | 350 | 351 | 352 | 353 | 354 | 355 | 356 | 357 | 358 | 359 | 360 | 361 | 362 | 363 | 364 | 365 | 366 | 367 | 368 | 369 | 370 | 371 | 372 | 373 | 374 | 375 | 376 | 377 | 378 | 379 | 380 | 381 | 382 | 383 | 384 | 385 | 386 | 387 | 388 | 389 | 390 | 391 | 392 | 393 | 394 | 395 | 396 | 397 | 398 | 399 | 400 | 401 | 402 | 403 | 404 | 405 | 406 | 407 | 408 | 409 | 410 | 411 | 412 | 413 | 414 | 415 | 416 | 417 | 418 | 419 | 420 | 421 | 422 | 423 | 424 | 425 | 426 | 427 | 428 | 429 | 430 | 431 | 432 | 433 | 434 | 435 | 436 | 437 | 438 | 439 | 440 | 441 | 442 | 443 | 444 | 445 | 446 | 447 | 448 | 449 | 450 | 451 | 452 | 453 | 454 | 455 | 456 | 457 | 458 | 459 | 460 | 461 | 462 | 463 | 464 | 465 | 466 | 467 | 468 | 469 | 470 | 471 | 472 | 473 | 474 | 475 | 476 | 477 | 478 | 479 | 480 | 481 | 482 | 483 | 484 | 485 | 486 | 487 | 488 | 489 | 490 | 491 | 492 | 493 | 494 | 495 | 496 | 497 | 498 | 499 | 500 | 501 | 502 | 503 | 504 | 505 | 506 | 507 | 508 | 509 | 510 | 511 | 512 | 513 | 514 | 515 | 516 | 517 | 518 | 519 | 520 | 521 | 522 | 523 | 524 | 525 | 526 | 527 | 528 | 529 | 530 | 531 | 532 | 533 | 534 | 535 | 536 | 537 | 538 | 539 | 540 | 541 | 542 | 543 | 544 | 545 | 546 | 547 | 548 | 549 | 550 | 551 | 552 | 553 | 554 | 555 | 556 | 557 | 558 | 559 | 560 | 561 | 562 | 563 | 564 | 565 | 566 | 567 | 568 | 569 | 5610 | 5611 | 5612 | 5613 | 5614 | 5615 | 5616 | 5617 | 5618 | 5619 | 5620 | 5621 | 5622 | 5623 | 5624 | 5625 | 5626 | 5627 | 5628 | 5629 | 5630 | 5631 | 5632 | 5633 | 5634 | 5635 | 5636 | 5637 | 5638 | 5639 | 5640 | 5641 | 5642 | 5643 | 5644 | 5645 | 5646 | 5647 | 5648 | 5649 | 5650 | 5651 | 5652 | 5653 | 5654 | 5655 | 5656 | 5657 | 5658 | 5659 | 5660 | 5661 | 5662 | 5663 | 5664 | 5665 | 5666 | 5667 | 5668 | 5669 | 5670 | 5671 | 5672 | 5673 | 5674 | 5675 | 5676 | 5677 | 5678 | 5679 | 5680 | 5681 | 5682 | 5683 | 5684 | 5685 | 5686 | 5687 | 5688 | 5689 | 5690 | 5691 | 5692 | 5693 | 5694 | 5695 | 5696 | 5697 | 5698 | 5699 | 56100 | 56101 | 56102 | 56103 | 56104 | 56105 | 56106 | 56107 | 56108 | 56109 | 56110 | 56111 | 56112 | 56113 | 56114 | 56115 | 56116 | 56117 | 56118 | 56119 | 56120 | 56121 | 56122 | 56123 | 56124 | 56125 | 56126 | 56127 | 56128 | 56129 | 56130 | 56131 | 56132 | 56133 | 56134 | 56135 | 56136 | 56137 | 56138 | 56139 | 56140 | 56141 | 56142 | 56143 | 56144 | 56145 | 56146 | 56147 | 56148 | 56149 | 56150 | 56151 | 56152 | 56153 | 56154 | 56155 | 56156 | 56157 | 56158 | 56159 | 56160 | 56161 | 56162 | 56163 | 56164 | 56165 | 56166 | 56167 | 56168 | 56169 | 56170 | 56171 | 56172 | 56173 | 56174 | 56175 | 56176 | 56177 | 56178 | 56179 | 56180 | 56181 | 56182 | 56183 | 56184 | 56185 | 56186 | 56187 | 56188 | 56189 | 56190 | 56191 | 56192 | 56193 | 56194 | 56195 | 56196 | 56197 | 56198 | 56199 | 56200 | 56201 | 56202 | 56203 | 56204 | 56205 | 56206 | 56207 | 56208 | 56209 | 56210 | 56211 | 56212 | 56213 | 56214 | 56215 | 56216 | 56217 | 56218 | 56219 | 56220 | 56221 | 56222 | 56223 | 56224 | 56225 | 56226 | 56227 | 56228 | 56229 | 56230 | 56231 | 56232 | 56233 | 56234 | 56235 | 56236 | 56237 | 56238 | 56239 | 56240 | 56241 | 56242 | 56243 | 56244 | 56245 | 56246 | 56247 | 56248 | 56249 | 56250 | 56251 | 56252 | 56253 | 56254 | 56255 | 56256 | 56257 | 56258 | 56259 | 56260 | 56261 | 56262 | 56263 | 56264 | 56265 | 56266 | 56267 | 56268 | 56269 | 56270 | 56271 | 56272 | 56273 | 56274 | 56275 | 56276 | 56277 | 56278 | 56279 | 56280 | 56281 | 56282 | 56283 | 56284 | 56285 | 56286 | 56287 | 56288 | 56289 | 56290 | 56291 | 56292 | 56293 | 56294 | 56295 | 56296 | 56297 | 56298 | 56299 | 56200 | 56201 | 56202 | 56203 | 56204 | 56205 | 56206 | 56207 | 56208 | 56209 | 56210 |

Number

```
2 1.5 2.5e3 0xFF 010
assert(2+2 == 4); // numbers are 64-bit floating point
assert(1.5 == 3/2); // (no separate integer type) ①②
assert(2.5e3 == 2500); // 2.5 x 103 exponential notation
assert(0xFF == 255); // hexadecimal
assert(010 == 8); // octal
```

```
assert(2 + 2 == 4); // addition simple math
assert(10 - 3 == 7); // subtraction
assert(3 * 8 == 24); // multiplication
assert(123 / 10 == 12.3); // real (not integer) division ①②
assert(123 % 100 == 34); // modulo (remainder)
```

```
var n=3; n += 30; assert(n == 33); // compute & store
var n=33; n -= 30; assert(n == 3); // x*y=y is the same
```

```
var n=3; n *= 20; assert(n == 60); // as x=x*y
```

```
var n=38; n /= 10; assert(n == 3.8);
```

```
var n=38; n % 10; assert(n == 8);
```

```
assert(-3+3 == 0); // negative number (unary minus)
```

```
var n=3; n += 4; // increment
```

```
var n=3; n -= 2; // decrement
```

```
assert(99 < 100); // less than comparisons
```

```
assert(99 <= 100); // less than or equal
```

```
assert(100 > 99); // greater than
```

```
assert(100 >= 99); // greater than or equal
```

```
assert(100 == 100); // equal
```

```
assert(99 != 100); // not equal
```

```
assert(1000 << 3 == 8000); // shift left 32-bit math
```

```
assert(1000 >> 3 == 125); // shift right, signed ①-31-bit
```

```
assert(0xFFFF0000 >>> 8 == 0x00FF0000); // unsigned
```

```
// ④ Always use parentheses around terms with: & | ^
```

```
assert((0x55555555 & 0xFF00FFFF) == 0x55005555); // and
```

```
assert((0x55555555 | 0xFF000000) == 0x55FF5555); // or
```

```
assert((0x55555555 ^ 0xFFFF0000) == 0x55AA5555); // xor
```

```
// >>> 0 converts to unsigned, avoiding ④ sign extension
```

```
assert((~0x55555555 >>> 0 == 0xAAAAAAA); // 1's compl.
```

```
assert((~0x55555555) != 0xAAAAAAA); // is signed!
```

```
var n=0x555; n &= 0xF0F; assert(n == 0x505);
```

```
var n=0x555; n |= 0x0F0; assert(n == 0x5F5);
```

```
var n=0x555; n ^= 0x0F0; assert(n == 0x5A5);
```

```
var n=-10; n <<= 1; assert(n == -20); // shift left
```

```
var n=-10; n >>= 1; assert(n == -5); // signed right
```

```
var n=0x8; n >>>= 1; assert(n == 0x4); // unsigned ③
```

```
assert(Number.MIN_VALUE < 1e-307); // special
```

```
assert(Number.MAX_VALUE > 1e308); // numbers
```

```
assert(Number.NEGATIVE_INFINITY == 1/0); // ①②
```

```
assert(Number.POSITIVE_INFINITY == -1/0);
```

```
assert(isNaN(0/0)); // NaN stands for Not A Number
```

```
assert(0/0 != 0/0); // ④ NaN is not equal to itself! ④
```

```
assert(isFinite(1/0)); assert(isFinite(1));
```

Math Math.PI Math.max() Math.round()

```
assert(Math.abs(-3.2) == 3.2);
```

```
assert(Math.max(1,2) == 2 && Math.max(1,2,3,4) == 4);
```

```
assert(Math.min(1,2) == 1 && Math.min(1,2,3,0) == 0);
```

```
assert(0 <= Math.random() && Math.random() < 1);
```

```
assert(Math.ceil(1.5) == 2); // round up, to the nearest
```

```
assert(Math.floor(-1.5) == -1); // integer higher or equal
```

```
assert(Math.round(1.7) == 2); // round to the nearest
```

```
assert(Math.round(1.2) == 1); // integer, up or down
```

```
assert(Math.floor(1.5) == 1); // round down to the nearest
```

```
assert(Math.floor(-1.5) == -2); // integer lower or equal
```

```
var n;
```

```
n=Math.E; assert(Approx(Math.log(n),1);
```

```
n=Math.LN10; assert(Approx(Math.pow(Math.E,n),10);
```

```
n=Math.LN2; assert(Approx(Math.pow(Math.E,n),2);
```

```
n=Math.LOG10E; assert(Approx(Math.pow(10,n),Math.E);
```

```
n=Math.LOG2E; assert(Approx(Math.pow(2,n),Math.E);
```

```
n=Math.PI; assert(Approx(Math.sin(n/2),1);
```

```
n=Math.SQRT1_2; assert(Approx(n*n,0.5);
```

```
n=Math.SQRT2; assert(Approx(n*n,2);
```

```
assert(Approx(Math.acos(1/2),Math.PI/3)); // trig functions
```

```
assert(Approx(Math.asin(1/2),Math.PI/6)); // are in radians
```

```
assert(Approx(Math.atan(1),Math.PI/4);
```

```
assert(Approx(Math.atan2(1,1),Math.PI/4);
```

```
assert(Approx(Math.cos(Math.PI/3),1/2);
```

```
assert(Approx(Math.exp(1),Math.E);
```

```
assert(Approx(Math.log(Math.E),1)); // (base e, not 10)
```

```
assert(Approx(Math.pow(10,3),1000);
```

```
assert(Approx(Math.sin(Math.PI/6),1/2);
```

```
assert(Approx(Math.sqrt(25),5);
```

```
assert(Approx(Math.tan(Math.PI/4),1);
```

```
// Math functions are accurate to 15 digits:
function assertApprox(a,b) {
    assert((b*0.999999999999999 < a) &&
        (a < b*1.000000000000001));
}
```

Number ↔ String conversions

```
// First, a subtle distinction in JavaScript comparisons:
assert(3 == "3"); // == Equals flexible about type
assert(3 != '4'); // == Identical must be the
assert(3 == 3); // == same type
```

```
assert(256 == "256"); // Strings in a numeric context are
assert(256 == "256"); // converted to a number. This is
assert(256 == "256.0"); // usually reasonable and useful.
```

```
assert(256 != "256.0"); // (String contexts, no convert! ④)
```

```
assert(256 != "0x100"); // Hexadecimal 0x prefix works,
```

```
assert(256 == "0256"); // but no octal 0 prefix works.
```

```
assert("256 xyz"); // No extraneous characters.
```

```
// Number ↔ String
```

```
assert(256 === "256" - 0); // - converts string to number
```

```
assert(256 == "256" + 0); // + concatenates strings ④
```

```
assert(256 === parseInt("256")); // extras forgiven
```

```
assert(256 === parseInt("0x100")); // hexdecimal
```

```
assert(256 === parseInt("0400")); // 0 for octal ④
```

```
assert(256 === parseInt("0256",10)); // certain decimal
```

```
assert(256 === parseInt("100",16)); // hexdecimal
```

```
assert(256 === parseInt("400",8)); // octal
```

```
assert(256 === parseFloat("2.56e1")); // (no conversion help)
```

```
assert(isNaN(parseInt("xyz"))); // gibberish handling
```

```
assert(isNaN(parseInt("parseFloat('xyz')"))); //
```

```
// Number → String, explicit conversions
```

```
assert(256 + "" == "256");
```

```
assert(256.toString() == "256");
```

```
assert((256).toString() == "256");
```

```
assert((256).toString(16) == "100"); // ④ real
```

```
// These involve ④ Regular Expressions and/or ④ Arrays
```

```
assert(/ing/.test("ing")) == 3; // find substring, -1 can't
```

```
assert(strings.lastIndexOf("s") == 6); // find rightmost
```

```
assert(/ing/.test("ing")) == 3; // case-sensitive string sort
```

```
a=[2,36,111]; a.sort(); // case-insensitive string sort
```

```
assert(a.join() == "111,2,36"); // (we use join() to prove it)
```

```
a="a-cat-44".split("-"); // split() also defaults
```

```
assert(a.join("+") == "a+cat+44"); // to comma delimited
```

```
a="pro@sup.net".split(/\@/); // split can also use a
```

```
assert(a.join() == "pro,sup,net"); // ④ regular expression
```

```
// ④ search expects a regular expression (where dot=any):
```

```
assert(theEnd.split(".").join() == "t,h,e,n,d");
```

```
a=[2,36,111]; a.sort(); // case-insensitive string sort
```

```
assert(a.join() == "111,2,36"); // numeric order
```

```
a.setMonth(5-1); // setMonth(0 == 5-1);
```

```
a.setDate(31); // setDate(0 == 31);
```

```
a.setHours(23); // setHours(0 == 23);
```

```
a.setMinutes(59); // setMinutes(0 == 59);
```

```
a.setSeconds(59); // setSeconds(0 == 59);
```

```
a.setMilliseconds(999); // setMilliseconds(0 == 999);
```

```
assert(d.getDay() == 5); // 0 = Sunday, 6 = Saturday
```

```
d.setYear(99); assert(d.getYear() == 99); // Y2K bugs
```

```
d.setYear(2001); assert(d.getYear() == 2001); // ④
```

```
d.UTCFullYear(2002); assert(d.getUTCFullYear() == 2002);
```

```
d.UTCMonth(5-1); assert(d.getUTCMonth() == 5-1);
```

```
d.UTCDate(31); assert(d.getUTCDate() == 31);
```

```
d.UCHours(23); assert(d.getUCHours() == 23);
```

```
d.UCMinutes(59); assert(d.getUCMinutes() == 59);
```

```
d.UTCSeconds(59); assert(d.getUTCSeconds() == 59);
```

```
d.UTCMilliseconds(999); assert(d.getUTCMilliseconds() == 999);
```

```
assert(d.UTCDay() == 5); // 0 = Sunday, 6 = Saturday
```

```
// Most set-functions can take multiple parameters:
```

```
d.setFullYear(2002,5,31); d.UTCFullYear(2002,5,31);
```

```
d.setMonth(5,31); d.UTCMonth(5,31);
```

```
d.setHours(23,59,59,999); d.UTCHours(23,59,59,999);
```

```
d.setMinutes(59,59,999); d.UCMinutes(59,59,999);
```

```
d.setSeconds(59,59,999); d.UTCSeconds(59,59,999);
```

```
// If you must call more than one set function, it's
```

```
// probably better to call the longer-period function first.
```

```
d.setMilliseconds(0); // (following point too coarse for msec)
```

```
// Date.parse() works on the output of either toString()
```

```
var msec = Date.parse(d.toString()); // or toUTCString()
```

```
assert(msec == d.getTime()); // ④ The formats of
```

```
msec = Date.parse(d.toUTCString()); // those strings vary
```

```
assert(msec == d.getTime()); // one computer to another.
```

decision if else switch case

```
function choose1(b) { // if demo
    var retval="skip";
    if (b) {
        retval="if-clause";
    }
    return retval;
}
assert(choose1(true) == "if-clause");
assert(choose1(false) == "skip");

function choose2(b) { // else
    var retval="doesn't matter";
    if (b) {
        retval="if-clause";
    } else {
        retval="else-clause";
    }
    return retval;
}
assert(choose2(true) == "if-clause");
assert(choose2(false) == "else-clause");

function choose3(n) { // else-if
    var retval="doesn't matter";
    if (n == 0) {
        retval="if-clause";
    } else if (n == 1) {
        retval="else-if-clause";
    } else {
        retval="else-clause";
    }
    return retval;
}
assert(choose3(true) == "if-clause");
assert(choose3(false) == "else-clause");

function choose4(s) { // switch
    var retval="doesn't matter";
    switch (s) { // switch on a
    case "A": // string ①②
        retval="A-clause";
        break;
    case "B":
        retval="B-clause";
        break;
    default:
        retval="default-clause";
        break;
    }
    return retval;
}
assert(choose4("A") == "A-clause");
assert(choose4("B") == "B-clause");
assert(choose4("Cziksztentmialy") == "Czikwhatever-clause");
assert(choose4("Z") == "default-clause");

// Logic structures aren't rigid about curly braces.
if (document.cookie != "") alert(document.cookie);
if (document.cookie != "") { // But including them can
    alert(document.cookie); // improve readability.
}
```

```
assert(eval("2+2") == 4);
if (typeof(Error) == "function") { // Safe exception catching
    eval('try { dangerous(); } catch (e) { oops(e); }'); ★
}
```

Code outside of any function runs when the page loads.

loop for while do-while for-in

```
function dotsfor(a) { // for demo
    var s=""; // concatenate array into dot-interleaved string
    for (var i=0; i < a.length; i++) {
        s+=a[i]+".";
    }
    return s;
}
assert(dotsfor(["a","b","c"]) == "a.b.c.");
// A for-loop behaves exactly like a while-loop in this way:
// for (init; test; next) { doit; } identical (assuming
// init; while (test) { doit; next; } no continue's)

function dotswhile(a) { // while demo
    var s="";
    while (i < a.length) { // while is conservative:
        s+=a[i]+".";
        i++; // ask before act. Repeat as long
              // as what's in parentheses holds true.
    }
    return s;
}
assert(dotswhile(["a","b","c"]) == "a.b.c.");

function uline(s,columnwidth) { // do-while demo
    do { // surround with underscores
        s=" "+s+" ";
    } while (s.length < columnwidth); // do-while is
    return s; // impulsive: act first, then ask question.
} // Repeat as long as what's in parentheses holds true.

assert(uline("Qty",7) == "_Qty_");
assert(uline("Description",7) == "_Description_");

// ⚪ for, while, and do-while can cause infinite loops
function forever1() { for (true; {} ) } // most browsers
function forever2() { while(true) {} } // will timeout
function forever3() { do {} while(true); } // eventually
// break escapes from the innermost for, while, do-while
// or switch clause, ignoring if and else clauses.
// continue skips to the test in for, while, do-while clauses.

var a=[1,2,3], s=""; // for-in demo for arrays
for (var i in a) { // ⚪ i goes thru indexes, not elements
    s+=a[i];
}
assert(s == "xyz");
```

SSI Server Side Includes (Apache servers with mod_include option "Options +Includes")

```
<!--#config timefmt="%a, %m/%d/%Y %H:%M:%S%p %Z" -->
<!--#echo var="DATE_LOCAL" -->
<!--#printenv --> (gives a list of all available var's, on some servers)
<!--#exec cgi="url" cmd="command" -->
<!--#exec cmd="program.cgi" -->
<!--#include virtual="relative-file-path" -->
<!--#set var="var-name" value="the-value" -->
<!--#if expr="string1 == string2" -->
<!--#elif expr="string1 != string2" -->
<!--#endif -->
<!--#if expr="$DOCUMENT_URI == '/top.shtml'" -->
<!--#include virtual="../navbar.html" -->
<!--#endif -->
```

Always insert a space before the "-->"

Error (exceptions) try catch finally throw

```
try { // catch an exception
    var v=nodef;
}
catch (e) {
    assert(e.message == "nodef is undefined");
    assert(e.name == "ReferenceError");
    assert(e.description == "nodef is undefined");
    assert(e.number > 0);
}

function process () { // throw an exception
    if (somethingGoesVeryWrong()) {
        throw new Error("msg","msg");
    } // To work with IE4 you could double the message,
    catch (e) { // then message or description should get it.
        assert(e.message == "msg" || e.description == "msg");
    }
}

function ReliableHandler() { // finally is for sure
    try {
        initialize();
        process();
    } finally {
        shutdown();
    }
}

// If the try-clause starts, the finally-clause must also,
// even if an exception is thrown or the function returns.

// Almost all browsers except N4 & IE4 support exceptions.
// A trick to avoid JavaScript errors is to put your exception-
// handling functions in a .js file and include it twice:
<script language="JavaScript1.4" src="excfile.js">
<script language="EcmaScript" src="excfile.js">
// The first works for N6, the second for IEs and IE6.
// Both work for Opera but that's probably harmless.
// continue skips to the test in for, while, do-while clauses.

var s=""; // for-in loop demo for objects
for (var property in o) { // ⚪ there's wide variation
    s+=property+" ";
} // in what an object exposes
assert(s == "name cost sold");

// Object literals in curly braces with name:value pairs
o={name:"bolt", cost:1.99, sold:{qty:5, who:"Jim"}};
assert(o.name == "bolt" && o.cost == 1.99);
assert(o.sold.qty == 5 && o.sold.who == "Jim");

var s=""; // for-in loop demo for objects
for (var property in o) { // ⚪ there's wide variation
    s+=property+" ";
} // in what an object exposes
assert(s == "name cost sold");
```

Object

```
var o=new Object(); // Objects are created with new
o.property = "value"; // Properties are created by assigning
assert(o.property == "value");
assert(o.nonproperty == null); // check if property exists
assert(!("nonproperty" in o)); // another way to check
assert("property" in o);

o.toString=function() { return this.property; } // Giving an
assert(o.toString() == "value"); // object a toString() method
assert(o == "value"); // allows direct string comparisons!
var o2=new Object(); o2.property="value";
assert(o!=o2);

delete o.property; // remove a property from an object
assert(o.property == null);

// delete is for properties, not objects. Objects are
// destroyed automatically (via garbage collection). ⚪

var B=new Boolean(true); assert(B); // object aliases
var N=new Number(8); assert(N == 8); // for simple
var S=new String("stg"); assert(S == "stg"); // types

// An Object is a named array of properties and methods
o=new Object; o.name="bolt"; o.cost=1.99;
o.cost2=function() { return this.cost*2; }
assert(o["name"] == o.name);
assert(o["cost"] == o.cost);
assert(o["costx2"]() == o.cost2());
```

nothingness null "undefined" undeclared uninitialized "unknown" unsafe void

JavaScript has more kinds of nothing than any other language.

"Undefined" means either uninitialized or undeclared.
var initvar=0; // declared and initialized
var uninit; // not initialized
var undef; // not declared

⌚ You can compare, assign or pass an uninitialized variable ⚪ but not an undeclared variable.

var u=uninit;
assert(u == uninit);
assert(u == undefined); // Ok everywhere but ⚪ IE Mac

⌚ typeof is safe on either, as is checking if the var is a member of the global window object, which all globals are.
assert(typeof(uninit) == "undefined");
assert(typeof(uninit) == "undefined");
assert(typeof(undef) == "undefined");
assert(window.initvar != null); assert(window.initvar == 0);
assert(window.uninit == null);
assert(window.undefined == null);

⌚ You'll get an error trying to use an uninitialized or undeclared variable or property as a function, object or array.

// uninit() undef() window.uninit() window.undefined()
// uninit.p uninit.p window.uninit.p window.undefined.p
// uninit[i] uninit[i] window.uninit[i] window.undefined[i]

Most JavaScript errors on live sites are one of these.

⌚ Undefined and null are ==equal but not ==identical.
assert(uninit == null); // An undefined var is equal to null,
assert(uninit != null); // though not identical to null.
assert(typeof(uninit) == "object"); // == and != are type-blind
assert(typeof(uninit) == "undefined"); // == and != see

So the classic technique for using a nonuniversal feature

safely is to compare with null each step of the way.

if (window != null &&
 window.location != null &&
 window.location.host != null) {

h>window.location.host;

} // This often works. Sometimes though it's still not safe.

⌚ In IEs, a few objects are what typeof calls "unknown" (e.g. window.location.reload). Comparing these objects with null is an error, so typeof can be safer than comparing with null.

⌚ There are a few objects that can't even be typeof'd safely.

(e.g. window.history.back in N6 or window.history.next in IE4)

The void operator has one obscure purpose, ⚪ keeping a hyperlink from loading a new web page:

 html popup Similar thing in a bookmarklet:

javascript:window.open("http://html-tags.info"); void 0;

object-orientation

```
function Part(name,cost) { //constructor is the class
    this.name=name; // define and initialize properties
    this.cost=cost; // "this" is always explicit ①②
}

var partBolt=new Part("bolt",1.99); // instantiation
assert(partBolt.constructor == Part); // type test
assert(partBolt instanceof Part); // ancestry test
```

```
assert(Part.prototype.isPrototypeOf(partBolt)); // type test
```

```
assert(partBolt.name=="bolt"); // not a type test
assert(partBolt.name == "bolt" && partBolt.cost == 1.99);
var partNut=new Part ("nut",0.10);
assert(partNut.name == "nut" && partNut.cost == 0.10);
```

```
Part.prototype.description=function() { // methods
    return this.name+" $"+this.toFixed(2);
}
```

```
assert(partBolt.description() == "bolt $1.99");
assert(partNut.description() == "nut $0.10");
// Whatever the prototype contains, all instances contain:
```

```
Part.prototype.toString=function() { return this.name; }
assert(partBolt.toString() == "bolt");
var a=[partBolt,partNut]; assert(a.join() == "bolt,nut");
Part.CostCompare=function(l,r) { // class method
    return l.cost - r.cost;
}
```

```
a.sort(Par.CostCompare); assert(a.join() == "nut,bolt");
function WoodPart(name,cost,tree) { // inheritance
    Part.apply(this,[name,cost]);
    this.tree=tree;
}
```

```
WoodPart.prototype=new Part(); // clone the prototype
WoodPart.prototype.constructor=WoodPart;
var tpick=new WoodPart("toothpick",0.01,"oak");
assert(tpick.name == "toothpick");
assert(tpick instanceof Part); // proof of inheritance
```

```
var a=[partBolt,partNut,tpick]; // polymorphism sorta
assert(a.sort(Par.CostCompare).join() == "toothpick,nut,bolt");
assert(a[0].tree == "oak" && a[1].tree == null);
assert(a[0] instanceof WoodPart);
assert([a[1]] instanceof WoodPart);
assert("tree" in tpick); // membership test - in operator
assert(!("tree" in partBolt));
```

```
WoodPart.prototype.description=function() { // override
    // Calling base class version of description() method:
    var disc=Part.prototype.description.apply(this,[]);
    return disc+" ("+this.tree+")"; // and overriding it
}
```

```
assert(tpick.description() == "toothpick $0.01 (oak)");
assert(partBolt.description() == "bolt $1.99");
}
```

```
type typeof constructor instanceof
```

```
var a=[1,2,3]; assert(typeof(a) == "object");
var A=new Array(1,2,3); assert(typeof(A) == "object");
var b=true; assert(typeof(b) == "boolean");
var B=new Boolean(true); assert(typeof(B) == "object");
var d=new Date(); assert(typeof(d) == "object");
var e=new Error("msg"); assert(typeof(e) == "object");
function f1() {} assert(typeof(f1) == "function");
var f2=function() {} assert(typeof(f2) == "function");
var f3=new Function(); assert(typeof(f3) == "function");
var n=3; assert(typeof(n) == "number");
var N=new Number(3); assert(typeof(N) == "object");
var o=new Object(); assert(typeof(o) == "object");
var s="stg"; assert(typeof(s) == "string");
var S=new String("stg"); assert(typeof(S) == "object");
var u; /* not assigned */ assert(typeof(u) == "undefined");
/* x not declared */ assert(typeof(x) == "undefined");
assert(a.constructor == Array); assert(&& a instanceof Array);
assert(b.constructor == Array); assert(&& b instanceof Array);
assert(c.constructor == Boolean); assert(&& c instanceof Boolean);
assert(d.constructor == Date); assert(&& d instanceof Date);
assert(e.constructor == Error); assert(&& e instanceof Error);
function f1() {} assert(&& f1 instanceof Function);
var f2=function() {} assert(&& f2 instanceof Function);
var f3=new Function(); assert(&& f3 instanceof Function);
var n=3; assert(&& n instanceof Number);
var N=new Number(3); assert(&& N instanceof Number);
var o=new Object(); assert(&& o instanceof Object);
var s="stg"; assert(&& s instanceof String);
var S=new String("stg"); assert(&& S instanceof String);
var u; /* not assigned */ assert(&& u instanceof undefined);
/* x not declared */ assert(&& x instanceof undefined);
assert(a.constructor == Array); assert(&& a instanceof Array);
assert(b.constructor == Array); assert(&& b instanceof Array);
assert(c.constructor == Boolean); assert(&& c instanceof Boolean);
assert(d.constructor == Date); assert(&& d instanceof Date);
assert(e.constructor == Error); assert(&& e instanceof Error);
assert(f1.constructor == Function); assert(&& f1 instanceof Function);
var f2=function() {} assert(&& f2 instanceof Function);
var f3=new Function(); assert(&& f3 instanceof Function);
var n=3; assert(&& n instanceof Number);
var N=new Number(3); assert(&& N instanceof Number);
var o=new Object(); assert(&& o instanceof Object);
var s="stg"; assert(&& s instanceof String);
var S=new String("stg"); assert(&& S instanceof String);
var u; /* not assigned */ assert(&& u instanceof undefined);
/* x not declared */ assert(&& x instanceof undefined);
assert(a.constructor == Array); assert(&& a instanceof Array);
assert(b.constructor == Array); assert(&& b instanceof Array);
assert(c.constructor == Boolean); assert(&& c instanceof Boolean);
assert(d.constructor == Date); assert(&& d instanceof Date);
assert(e.constructor == Error); assert(&& e instanceof Error);
assert(f1.constructor == Function); assert(&& f1 instanceof Function);
var f2=function() {} assert(&& f2 instanceof Function);
var f3=new Function(); assert(&& f3 instanceof Function);
var n=3; assert(&& n instanceof Number);
var N=new Number(3); assert(&& N instanceof Number);
var o=new Object(); assert(&& o instanceof Object);
var s="stg"; assert(&& s instanceof String);
var S=new String("stg"); assert(&& S instanceof String);
var u; /* not assigned */ assert(&& u instanceof undefined);
/* x not declared */ assert(&& x instanceof undefined);
assert(a.constructor == Array); assert(&& a instanceof Array);
assert(b.constructor == Array); assert(&& b instanceof Array);
assert(c.constructor == Boolean); assert(&& c instanceof Boolean);
assert(d.constructor == Date); assert(&& d instanceof Date);
assert(e.constructor == Error); assert(&& e instanceof Error);
assert(f1.constructor == Function); assert(&& f1 instanceof Function);
var f2=function() {} assert(&& f2 instanceof Function);
var f3=new Function(); assert(&& f3 instanceof Function);
var n=3; assert(&& n instanceof Number);
var N=new Number(3); assert(&& N instanceof Number);
var o=new Object(); assert(&& o instanceof Object);
var s="stg"; assert(&& s instanceof String);
var S=new String("stg"); assert(&& S instanceof String);
var u; /* not assigned */ assert(&& u instanceof undefined);
/* x not declared */ assert(&& x instanceof undefined);
assert(a.constructor == Array); assert(&& a instanceof Array);
assert(b.constructor == Array); assert(&& b instanceof Array);
assert(c.constructor == Boolean); assert(&& c instanceof Boolean);
assert(d.constructor == Date); assert(&& d instanceof Date);
assert(e.constructor == Error); assert(&& e instanceof Error);
assert(f1.constructor == Function); assert(&& f1 instanceof Function);
var f2=function() {} assert(&& f2 instanceof Function);
var f3=new Function(); assert(&& f3 instanceof Function);
var n=3; assert(&& n instanceof Number);
var N=new Number(3); assert(&& N instanceof Number);
var o=new Object(); assert(&& o instanceof Object);
var s="stg"; assert(&& s instanceof String);
var S=new String("stg"); assert(&& S instanceof String);
var u; /* not assigned */ assert(&& u instanceof undefined);
/* x not declared */ assert(&& x instanceof undefined);
assert(a.constructor == Array); assert(&& a instanceof Array);
assert(b.constructor == Array); assert(&& b instanceof Array);
assert(c.constructor == Boolean); assert(&& c instanceof Boolean);
assert(d.constructor == Date); assert(&& d instanceof Date);
assert(e.constructor == Error); assert(&& e instanceof Error);
assert(f1.constructor == Function); assert(&& f1 instanceof Function);
var f2=function() {} assert(&& f2 instanceof Function);
var f3=new Function(); assert(&& f3 instanceof Function);
var n=3; assert(&& n instanceof Number);
var N=new Number(3); assert(&& N instanceof Number);
var o=new Object(); assert(&& o instanceof Object);
var s="stg"; assert(&& s instanceof String);
var S=new String("stg"); assert(&& S instanceof String);
var u; /* not assigned */ assert(&& u instanceof undefined);
/* x not declared */ assert(&& x instanceof undefined);
assert(a.constructor == Array); assert(&& a instanceof Array);
assert(b.constructor == Array); assert(&& b instanceof Array);
assert(c.constructor == Boolean); assert(&& c instanceof Boolean);
assert(d.constructor == Date); assert(&& d instanceof Date);
assert(e.constructor == Error); assert(&& e instanceof Error);
assert(f1.constructor == Function); assert(&& f1 instanceof Function);
var f2=function() {} assert(&& f2 instanceof Function);
var f3=new Function(); assert(&& f3 instanceof Function);
var n=3; assert(&& n instanceof Number);
var N=new Number(3); assert(&& N instanceof Number);
var o=new Object(); assert(&& o instanceof Object);
var s="stg"; assert(&& s instanceof String);
var S=new String("stg"); assert(&& S instanceof String);
var u; /* not assigned */ assert(&& u instanceof undefined);
/* x not declared */ assert(&& x instanceof undefined);
assert(a.constructor == Array); assert(&& a instanceof Array);
assert(b.constructor == Array); assert(&& b instanceof Array);
assert(c.constructor == Boolean); assert(&& c instanceof Boolean);
assert(d.constructor == Date); assert(&& d instanceof Date);
assert(e.constructor == Error); assert(&& e instanceof Error);
assert(f1.constructor == Function); assert(&& f1 instanceof Function);
var f2=function() {} assert(&& f2 instanceof Function);
var f3=new Function(); assert(&& f3 instanceof Function);
var n=3; assert(&& n instanceof Number);
var N=new Number(3); assert(&& N instanceof Number);
var o=new Object(); assert(&& o instanceof Object);
var s="stg"; assert(&& s instanceof String);
var S=new String("stg"); assert(&& S instanceof String);
var u; /* not assigned */ assert(&& u instanceof undefined);
/* x not declared */ assert(&& x instanceof undefined);
assert(a.constructor == Array); assert(&& a instanceof Array);
assert(b.constructor == Array); assert(&& b instanceof Array);
assert(c.constructor == Boolean); assert(&& c instanceof Boolean);
assert(d.constructor == Date); assert(&& d instanceof Date);
assert(e.constructor == Error); assert(&& e instanceof Error);
assert(f1.constructor == Function); assert(&& f1 instanceof Function);
var f2=function() {} assert(&& f2 instanceof Function);
var f3=new Function(); assert(&& f3 instanceof Function);
var n=3; assert(&& n instanceof Number);
var N=new Number(3); assert(&& N instanceof Number);
var o=new Object(); assert(&& o instanceof Object);
var s="stg"; assert(&& s instanceof String);
var S=new String("stg"); assert(&& S instanceof String);
var u; /* not assigned */ assert(&& u instanceof undefined);
/* x not declared */ assert(&& x instanceof undefined);
assert(a.constructor == Array); assert(&& a instanceof Array);
assert(b.constructor == Array); assert(&& b instanceof Array);
assert(c.constructor == Boolean); assert(&& c instanceof Boolean);
assert(d.constructor == Date); assert(&& d instanceof Date);
assert(e.constructor == Error); assert(&& e instanceof Error);
assert(f1.constructor == Function); assert(&& f1 instanceof Function);
var f2=function() {} assert(&& f2 instanceof Function);
var f3=new Function(); assert(&& f3 instanceof Function);
var n=3; assert(&& n instanceof Number);
var N=new Number(3); assert(&& N instanceof Number);
var o=new Object(); assert(&& o instanceof Object);
var s="stg"; assert(&& s instanceof String);
var S=new String("stg"); assert(&& S instanceof String);
var u; /* not assigned */ assert(&& u instanceof undefined);
/* x not declared */ assert(&& x instanceof undefined);
assert(a.constructor == Array); assert(&& a instanceof Array);
assert(b.constructor == Array); assert(&& b instanceof Array);
assert(c.constructor == Boolean); assert(&& c instanceof Boolean);
assert(d.constructor == Date); assert(&& d instanceof Date);
assert(e.constructor == Error); assert(&& e instanceof Error);
assert(f1.constructor == Function); assert(&& f1 instanceof Function);
var f2=function() {} assert(&& f2 instanceof Function);
var f3=new Function(); assert(&& f3 instanceof Function);
var n=3; assert(&& n instanceof Number);
var N=new Number(3); assert(&& N instanceof Number);
var o=new Object(); assert(&& o instanceof Object);
var s="stg"; assert(&
```

window...

the browser window
A page with frames forms a hierarchy of window objects.
Access a window object via:
window (the current frame)
window.frames[] (inner)
window.parent (outer)
window.top (outermost)

All window members are global and vice versa: any global vars or functions become members of the "current" window.

.alert("message") popup

↳ comment(), prompt()

.back()

.blur() keyboard focus off

.captureEvents(mask) (+Op)

.clearInterval(setIntervalID)

.clearTimeout(setTimeoutID)

.clientInformation...

.appCodeName

.appMinorVersion

.appName

.appVersion

.browserLanguage

.cookieEnabled

.cpuClass

.online

.platform

.systemLanguage

.userAgent

.userLanguage

.close()

.closed

.confirm("question") yes/no

.crypto

.defaultStatus

.document

.event

.external

.focus()

.forward()

.frameRate (-N6)

.frames[] sub-windows

.handleEvent(event) (-N6)

.history[] URLs in history

.history

.back()

.forward()

.go(*n*pages)

.current

.next forward URL

.previous back URL

N6

.home()

.innerHeight

.innerWidth

java

.length =frames.length

.location... r.href, w.reload()

.hash (what's after the #)

.host e.g. www.

.hostname visibone.com

.href complete URL

.pathname

.port '81' in imbd.com:81

.protocol e.g. "http:"

.search (after the ?)

.reload(bypasscache)

.replace(url) load a page

.locationbar.visible

.menuBar.visible

.moveBy(dx,dy)

.moveTo(x,y)

.name

.navigator...

.appCodeName (Mozilla)

.appName (e.g. Netscape)

.appVersion

.cookieEnabled

.javaEnabled()

.plugins[]

.mimeTypeTypes[]

.language (e.g. en, en-US)

.platform (e.g. Win32)

.userAgent[]

.userLanguage (e.g. en-us)

.navigate(url) to a new page

netscape

.offscreenBuffering (-N6)

.onblur losing user focus

.ondragdrop (N4 only)

.onerror JavaScript error:

↳ true skips browser popup

.onfocus user click or tab

.onhelp F1=help key

.top outermost frame

window.open(u,n,o,h)

↳ window.open("http://html-tags.info");
(with no options specified, almost all default to yes)

var winlean=window.open("http://html-tags.info/", "htmtags", "width=400");
(just specify 1 option, and most others default to no)

var wcustom=window.open("http://html-tags.info/", "htmtags", "alwaysLowered=no,+");
"alwaysRaised=no,+";
"channelmode=no,+";
"dependent=yes,+";
"directories=no,+";
"fullscreen=no,+";
"height=<npixels>,+";
"hotkeys=yes,+";
"innerHeight=<npixels>,+";
"innerWidth=<npixels>,+";
"left=<npixels>,+";
"location=no,+";
"menubar=no,+";
"outerHeight=<npixels>,+";
"resizable=no,+";
"scrollbars=no,+";
"status=no,+";
"titlebar=yes,+";
"toolbar=no,+";
"top=<npixels>,+";
"width=<npixels>,+";
"z-lock=no");

.onLoad

.onResize desktop window

.onScroll browser scrollbar

.onUnload new page coming

.open(url,name,options,ovr)

url.name act just like href and target in a hyperlink

call window.open() so as not to confuse with document.open() in events.

.opener (window that opened)

.onWrite after .write()'s

.cookie permanent store

r: nam=val, nam=val, ...

w: nam=val;expires=date

.parentWindow outer frame

.plugins embeds[]

.createElement(tag) node

.createStyleSheet(url,index)

.designMode

.domain part of .URL

.doctype <!DOCTYPE>

.documentElement

.elementFromPoint(x,y)

.embeds[] <embed>

.expand catch name errors

.execCommand(command)

.fgColor <body text>

.formFromPoint(x,y)

.getElementsById(id)

.getElementsByName(name)

.getElementsByTagName(tag)

.getSelection() user-hilited

.handleEvent(event) (-N6)

.images[]

.implementation

.hasFeature(feature,ver)

.lastModified date & time

.layers[] (-N6)

.links[] <a href>

.location window.location

.media

.mimeType

.namespaces

.namespaceURI

.onActivate

.onAfterUpdate

document...

Access via: web page
document (any frame).document
(Node members belong here)
(form and image names too)

.activeElement

.linkColor <bodyalink>

.all[] all elements

.anchors[] <a name>

.onDataAvailable

.onDataChanged

.onDataSetComplete

.onDblClick (-N6)

.body... <body>

(see Element, Node also)

.aLink <color>

.background <image>

.aLink <color>

.backgroundAttachment

.aLink <color>

.backgroundColor

.aLink <color>

.backgroundImage

.aLink <color>

.backgroundPositionX

.aLink <color>

.backgroundPositionY

.aLink <color>

.backgroundRepeat

.aLink <color>

.backgroundSize

.aLink <color>

.backgroundAttachment

.aLink <color>

.backgroundPositionX

.aLink <color>

.backgroundPositionY

.aLink <color>

.backgroundRepeat

.aLink <color>

.backgroundSize

.aLink <color>

.backgroundAttachment

.aLink <color>

.backgroundPositionX

.aLink <color>

.backgroundPositionY

.aLink <color>

.backgroundRepeat

.aLink <color>

.backgroundSize

.aLink <color>

.backgroundAttachment

.aLink <color>

.backgroundPositionX

.aLink <color>

.backgroundPositionY

.aLink <color>

style...

Cascading Style Sheets with the names reworded slightly. Value syntax mostly the same.

↳ CSS page of HTML Card

Netscape 4 supports merely what's in document.layers[]</p

		assert(/hello/.test('hello world'))
		Regular expressions are patterns used to match portions of strings
regular expression		
// The test method says whether there's a match anywhere		
assert(/I/.test('courage')); // there is no "I" in courage		
assert(/our/.test("courage")); // there is "our" in courage		
// The search method says how many characters precede a match		
assert("courage".search(/our/) == 1); // 1 letter before "ou"		
assert("courage".search(/I/) == -1); // -1 means no match		
// The replace method changes a matched substring		
assert("receive".replace(/ie/, "ei") == "receive");		
Character Classes (sets of matchables)		
\d	\D	/// \d matches any decimal digit assert(/\d/.test('9')); // same as /[0123456789]/ or /[0-9]/ assert/[0123456789]/.test('9')); assert/[0-9]/.test('9'));
digit	non-digit	
\s	\S	/// \s matches space, tab, terminator assert/\s\S\s\S\S/.test("to be")); // any invisible "white space" character assert/\s/.test(" ")); assert/[\t\n\u000B\f\r]/.test(" "));
space	non-space	
\w	\W	/// \w is a letter, number, underscore assert/\w\w\W\w\w\w\w\w\w\w/.test("21-May'02")); assert/\w/.test("X")); assert/[0-9A-Za-z_]/.test("X"));
word	non-char word	
[]		var vowel = /[aeiouy]/; assert("story".search(vowel) == 2); assert(!vowel.test("mfg'r"));
one of		
[^]		var nonvowel = /^[^aeiouy]/; assert(nonvowel.test("our")); assert(!nonvowel.test("eye"));
one not of		
		assert/[a-zA-Z]/.test('Story')); assert("\$8ea".replace(/[0-9]/, 'X') == '\$Xea');

	either - or	assert(/(jpg jpeg)/.test('pic.jpg')); assert(/(jpg jpeg)/.test('pic.jpeg')); assert(!/(jpg jpeg)/.test('pic.gif'));
	any character (except newline)	var inside parentheses N4 (^ assert(/g.t/.test('get')); assert(/g.t/.test('night')); assert(!(/g.t/.test('goat'))); assert(/g.t/.test('g\nt'))); assert(!(/g.t/.test('g\nnt'))); (\n
	Repeating patterns	optional (0 or 1) assert(/to?t/.test("tt")); assert(/to?t/.test("tot")); assert(!/to?t/.test("toot")); assert(!/to?t/.test("tooot")); any (0 or more) assert(/to*t/.test("ff")); assert(/to*t/.test("tot")); assert(/to*t/.test("toot")); assert(/to*t/.test("tooot")); assert(!/to+t/.test("tt")); assert(/to+t/.test("tol")); assert(/to+t/.test("toot")); assert(/to+t/.test("tooot")); etc. (1 or more) assert(!/to{2}t/.test("tt")); assert(!/to{2}t/.test("tot")); assert(/to{2}t/.test("toot")); assert(!/to{2}t/.test("tooot")); exactly (n) assert(!/to{2,}t/.test("tt")); assert(!/to{2,}t/.test("tot")); assert(/to{2,}t/.test("toot")); assert(/to{2,}t/.test("tooot")); min (n or more) assert(!/to{1,2}t/.test("tt")); assert(/to{1,2}t/.test("tot")); assert(/to{1,2}t/.test("toot"));

	Anchors (<i>matches between characters</i>)
	<code>assert(^a/.test('apple'));</code> <code>assert(^a/.test('alpha'));</code> <code>assert(!^a/.test('baker'));</code>
string starts with	<i>use both ^ and \$ when you want to cover the entire string</i>
	<code>assert(e\$/ .test('apple'));</code> <code>assert(l/e\$/.test('baker'));</code> <code>assert(e\$/ .test('charlie'));</code>
string ends with	
	word boundary
	not a word boundary in or outside a word
<i>// "words" are consecutive letters, numbers or underscores</i>	
<code>assert(/\ am\?/.test("I am?")); // same as what matches \</code>	
<code>assert(/\b\ b \ ba\Bm\b\?\\B/.test("I am?"));</code>	
<i>a subexpression groups or captures contents</i>	
	<i>// groups characters for a repeater:</i> <code>assert(/friend(ship)?/.test('friend'));</code> <code>assert(/friend(ship)?/.test('friendship'));</code>
<i>// or captures submatched characters for later recall:</i>	
<code>assert("abc".replace(/(a)(b)(c)/,'\$1.\$2.\$3') == "a.b.c");</code>	
<code>assert("in 206BC is".replace(/(\d+)BC/,<i>\$1</i>BC") == "in <i>206</i>BC is");</code>	
<i>// only plain () parens capture, not (?:) nor (?:=) nor (?!)</i>	
	<code>var s="the the man to see";</code> <code>var r=(\w+) \1/g;</code> <code>assert(s.replace(r,"\$1 [\$1]") ==</code>
	<code>"the [the] first man to [to] see")</code>
submatch recur	<i>insist that what matched a subexpression appear again</i>
	look-ahead equals specify what comes next (but leave it alone)

<p>simple methods</p> <p>b = r.test(s);</p> <pre>assert(/a/.test("apple")); assert(/e/.test("apple")); assert(/x/.test("apple"));</pre>	<p><i>is there a match anywhere?</i></p>
<p>n = s.search(r);</p> <pre>assert("apple".search(/a/) == 0); assert("apple".search(/pp/) == 1); assert("apple".search(/l/) == 3); assert("apple".search(/e/) == 4); assert("apple".search(/x/) == -1);</pre>	<p><i>where is the match?</i></p> <p>❖ <i>String</i></p>
<p>s = s.replace(r,s); replace pattern with string</p> <pre>assert("alan".replace(/a/,"A") == "Alan"); assert("alan".replace(/a/,"e") == "elan"); assert("alan".replace(/a/g,"e") == "elen");</pre>	<p><i>// -1 = not found</i></p>
<p>replace()'s special symbols:</p> <p>\$` \$& \$' \$_ \$1 \$2 ... \$+ \$\$</p> <p><i>// symbols for any regular expression</i></p> <pre>assert("abcd".replace(/bc/\$_) == "aad"); // leftContext assert("abcd".replace(/bc/\$&) == "abcd"); // lastMatch assert("abcd".replace(/bc/\$^) == "add"); // rightContext assert("abcd".replace(/bc/\$_) == "aabccdd"); // input assert("abcd".replace(/bc/\$\$) == "a\$d"); // (literal \$)</pre> <p><i>// symbols recalling subexpression-matched characters:</i></p> <pre>assert("abcd".replace(/(b)(c)/,\$1) == "ab"); // \$1 assert("abcd".replace(/(b)(c)/,\$2) == "cd"); // \$2 assert("abcd".replace(/(b)(c)/,\$+) == "cd"); // lastParen</pre>	<p>a = s</p> <pre>var s= var a= assert= var a= assert= var a= assert= var a= assert=</pre> <p>a = s</p> <pre>var sB= // ext... var ag... assert= assert= assert= assert= assert= assert= assert=</pre> <p>a = s</p> <pre>// (su... var ap... assert= assert= assert= assert= assert= assert= assert=</pre> <p>a = s</p> <pre>// Wit... // Wit... // Eac... // (as... // par... // last... // get... RegEx... var r... var a=</pre>

split(rd);	◆ Array Delimiter breakdown
be the *first* – that is the "idea"; // will parse by	
lit(/\W+/); // any series of non-word characters	
in0 == "to,be,the,first,that,is,the,idea");	
split(/\W+/,4); // split can also limit array length	
in0 == "to,be,the,first");	
be first".split(/\W+/); // Netscape split() will	
in0 != "to, ,be, ,first"); // include submatches	
match(rg);	★ Global breakdown
= "Calling b7 i20 n33, anybody win yet?";	
bingo codes: one bingo-letter plus 1 or 2 digits	
bingo.match(/[bingo]\d{1,2}/g);	
length == 3);	
0] == 'b7'); // a match on a g-option expression	
1] == 'i20); // returns an array with each match	
2] == 'n33');	
input == sBingo);	
match(rp);	Parenthetical breakdown
expression 1: bingo-letter) (subexpression 2: digits)	
[2].match(/([bingo])(\d{1,2})/);	
length == 3); // non-g match array very different:	
0] == 'n33'); // 0: entire matched string	
1] == 'n'); // 1: 1st subexpression's match	
2] == '33'); // 2: 2nd subexpression's match	
index == 0);	
input == ag[2]);	
exec(s);	● Parenthetical & global breakdown
the g option, <code>r.exec(s)</code> is identical to <code>s.match(rp)</code> .	
the g option, something very unusual happens.	
All to exec() matches the entire expression once	
(there were no g option) and breaks it down	
parenthetically (as <code>s.match(rp)</code>) but it picks up where the	
left off. So repeatedly calling exec() until null	
every match the g-option would normally have hit.	
index=0); // (wise to do before first exec)	
bingo])\d{1,2}/g;	
exec(sBingo); // first exec breaks down first match	

<code>new RegExp(s);</code>	<code>Constructors</code>
<code>new RegExp(s, sFlags);</code>	 IE4-5 do not work without the "new"
<code>:source;</code>	
<code>compile(s,sFlags);</code>	
<code>/e/g;</code>	// Four ways
<code>=new RegExp("e","g");</code>	// to make a
<code>=eval("//e/g");</code>	// regular
<code>=new RegExp(""); r4.compile("e","g"); // expression</code>	// expression
<code>r1 == r3 && r2 == r4); // (✿) Compare by reference)</code>	(✿) Compare by reference)
<code>"meme".replace(r1,"") == "mimi";</code>	// They all
<code>"meme".replace(r2,"") == "mimi";</code>	// perform
<code>"meme".replace(r3,"") == "mimi";</code>	// identically.
<code>"meme".replace(r4,"") == "mimi";</code>	
<code>new RegExp("\\d\\w"); // Double backslashes, since</code>	
<code>test('3D'));</code>	strings use them for escaping too (✿)
<code>=new RegExp("\\\\\\\\"); // Quadruple literal backslashes</code>	
<code>=test("\u000C"); // string-doubling, regexp-doubling</code>	
<code>r1.source == "e";</code>	
<code>r2.source == "e";</code>	
<code>egExp.leftContext;</code>	side effects
<code>egExp.lastMatch;</code>	of the most
<code>egExp.rightContext;</code>	recent regular
<code>egExp.input;</code>	expression
<code>egExp.index;</code>	(that made
<code>test('to-and-fro');</code>	a match)
<code>RegExp.leftContext == 'to-');</code>	
<code>RegExp.lastMatch == 'and');</code>	
<code>RegExp.rightContext == '-fro');</code>	
<code>RegExp.input == 'to-and-fro');</code>	
<code>RegExp.index == 3);</code>	
<code>egExp.\$1;</code>	side effects of
<code>egExp.\$2;</code>	subexpressions
	of the most recent

egExp.leftContext;
egExp.lastMatch;
egExp.rightContext;
egExp.input;
egExp.index;
test('to-and-fro');
RegExp.leftContext == 'to-');
RegExp.lastMatch == 'and');
RegExp.rightContext == '-fro');
RegExp.input == 'to-and-fro');
RegExp.index == 3);

egExp.\$1; *side effects of
egExp.\$2;* *subexpressions
of the most recent
expansion*

*Most regular expressions
are somewhere between
dirt simple and fiendishly
complex.*

The diagram shows the regular expression `/[\!-\~]*@\[\!-\~]+\w/g` with various annotations:

- `[\!-\~]*`: one visible character
- `@`: at-sign
- `[\!-\~]+`: any number of visible characters
- `\w`: word character
- `/g`: global (repetitive) search

```
ails= "spammer42/5@remail.com," +  
"morespam@whiter.com";  
  
extractEmails(text) {  
    maybes=text.match(reLoose);  
    certifies=new Array;  
    i=0, j=0 ; i < maybes.length ; i++) {  
        Tight.test(maybes[i])) {  
            certifies[j++]=maybes[i];  
  
    certifies;  
}
```

The VisiBone Browser Book for Web Designers

August 2004

A client-side technology memory jogger

Table of Contents



FONTS CHARACTERS

2 3

TAGS (XHTML)

4 5

STYLES (CSS)

6 7

XML

JAVA SCRIPT

10 11

DOM Document Object Model

12 13

REGULAR EXPRESSIONS

14 15

LEGEND

(you
are
here)

16

#rrggbb (HTML or CSS)

Hexadecimal color code or color name. ♦ Color Card (#000000 or black, #FFFFFF or white, #FF0000 or red, ...)

color (CSS only)
#rrggbb (00-FF)
#rgb (0-F)
rgb(rrr, ggg, bbb) (0-255)
rgb(rr%, gg%, bb%) (0-100)
or black or white or red ...

Tags use same attributes or properties same values

— Alternative sets

| Alternative values

/> Element that never has an end-tag, XHTML syntax

LEGEND

Common features:

- Internet Explorer (4-6) and AOL (5) do not support
- Netscape (4-6) and Mozilla (6) do not support
- Opera (6) does not support
- Not a W3C or ECMA standard, all browsers support
- Netscape 4 does not support
- IE4 no (IE5 maybe)
- N4 and IE4 do not support (IE5 maybe)
- Opera and IE4 do not support (IE5 maybe)
- Opera and Netscape 4 do not support (N6 maybe)
- Opera, Netscape 4, IE4 do not support (IE5 maybe) (universal features have no coloring)

Rare features:

- Only supported by Internet Explorer (and AOL)
- Only supported by Netscape 4
- Unimplemented W3C or ECMA features (except N6 implements most)

Further Complications:

(IE5.5) Internet Explorer support begins with version 5.5
(-N6) Netscape 6 and 7 do not support (nor Mozilla 1)

Other browsers support white-background features, except:

(Op) (-Op) Opera supports:
(Sf) (-Sf) Safari™ (yes) or
(Kq) (-Kq) Konqueror (-no)

(a) (b) W3C or ECMA deprecates (a) in favor of (b)
i.e. the standards say don't use (a), use (b)

Microsoft suggests (x)

VisiBone suggests (x)

Not supported by IE5 on the Mac

Not supported by Netcape on the Mac

IE bug

Netscape bug

Opera bug

IE diversity

Netscape diversity

Opera diversity

Diversity among all implementations

! Astonishing diversity (freak flags fly)

unlike the C or C++ programming languages

unlike the Java programming language

Block element (rectangular area, as opposed to a stream of text)

Nestable (inside itself)

nestable to two levels

Nestable in Netscape

Default value

Default in IE

Default in Netscape

See section

Contrast with

Identical to

Confusing issue, attempt to unravel

Gotcha, potential bug, something to watch out for

Null bites (comparison is an error, but typeof is safe)

Poisonous, no safe handling (e.g. typeof is an error)

Security issues (signed script, or HTML application)

Unsettlingly advanced

or ★ Neat Trick

Mysterious

Obsolete

Corresponds to HTML element (e.g. <body>)

Corresponds to HTML attribute (e.g. <body link>)

Corresponds to HTTP header field (e.g. User-Agent)

<tag> XHTML

{style} CSS - Cascading Style Sheet property

&character; Special character

javascript language keyword or syntax

dom browser document object model

regular expression string handling

Functional Index for Tags and Styles pages (4,5,6,7)

Tables <table>
<thead> <tr>
<tfoot> <td> <th>
<tbody> <caption>
<colgroup> <col>
<border-collapse>
<empty-cells>
<table-layout>

Lists
<dl> <dt> <dd>

<dir> <menu>

123 {list-style}

abc {counter-xxx}

Forms <form>

<textarea>

<input type="text">

<input type="password">

<input type="checkbox">

<input type="radio">

<input type="file">

<input type="hidden">

<input type="button">

<input type="reset">

<input type="submit">

<input type="image">

<select> <option>

<optgroup> <button>

<isindex> <label>

<fieldset> <legend>

<datasrc> <dataId>

<dataformatas>

Hyperlinks <a href>

<map> <area href>

a:link{} a:visited{} a:active{} a:hover{} a:base <a name>

Image maps <map> <area>

Programming <object>

<applet> <param>

<embed> <noembed>

<script> <noscript>

<xox language>

<xox onxox>

<behavior>

Frames <frame>

<frameset>

<noframes>

Style sheets <style>

<xxx style>

<xxx class> <xxx id>

<link rel="stylesheet">

 <div>

Audio <bgsound>

{azimuth} {cue-xxx}

{elevation} {pause}

{pitch} {play-during}

{richness} {speak-xxx}

{speech-rate} {stress}

{voice-family} {volume}

Help for blind users:

<area alt>

<xox title> <td abbr>

<table summary>

<speak-header>

(and all of ♀)

Multilingual: <bdo>

{unicode-bidi}

<xox dir> {direction}

<q> {quotes}

xox:before{}

xox:after{}

<xox lang> xox:lang{}

<meta http-equiv="content-language">

@charset

<?xml encoding?>

<meta http-equiv="content-type">

A Font

 <big>

<basefont> <small>

{font-size} {font-family}

{font-stretch}

{font-variant:small-caps}

{text-transform}

@font-face {font-family}

B Bold

{font-weight}

H Shadow {text-shadow}

I Italics <i>

<cite> <var> <xmp>

<address> <dfn>

{font-style:italic}

{font-style:oblique}

2 Subscript <sub>

{vertical-align:sub}

2 Superscript <sup>

{vertical-align:super}

S Strike-through <s>

<strike>

{text-decoration:line-through}

TT Monospace <tt>

<code> <kbd> <xmp>

<plaintext> <listing>

<pre> <samp>

{white-space:pre}

{font-family:monospace}

O Overline {text-decoration:overline}

U Underline <u> <ins>

{text-decoration:underline}

VisiBone Browser Book for Web Designers

Color Card

2006 Edition

www.visibone.com/color

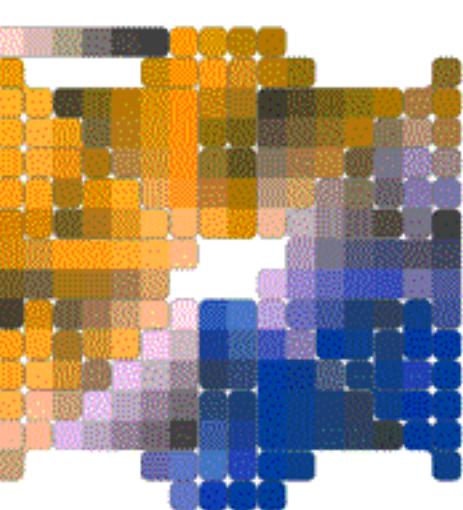
© 2006 VisiBone

| | | | | | | | | | |
|----------------------------|-----------------------------|-----------------------------|-----------------------------|--------------------------|----------------------|----------------------------|----------------------------|----------------------------|---------------------------|
| FFFFFF
255,255,255
W | CCCCCC
204,204,204
PG | 999999
153,153,153
LQ | 666666
102,102,102
DQ | 333333
51,51,51
OG | 000000
0,0,0
K | FFCC00
255,204,0
YYO | FF9900
255,153,0
OOY | FF6600
255,102,0
OOR | FF3300
255,51,0
RRO |
|----------------------------|-----------------------------|-----------------------------|-----------------------------|--------------------------|----------------------|----------------------------|----------------------------|----------------------------|---------------------------|

Here are the 216 colors most widely supported by web browsers.

Colors are grouped by hue.
Touching color chips have the same hue.

Swatch libraries with this color layout
are available for several design tools.
www.visibone.com/swatches

| | | | | | | | | | |
|--|---|-----------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|-----------------------------|
| 99CC00
153,204,0
DYS | CC9900
204,153,0
DYO | FFCC33
255,204,51
LYO | FFCC66
255,204,102
LOR | FF9966
255,153,102
LDR | FF6633
255,102,51
LDO | CC3300
204,51,0
DRO | CC0033
204,0,51
DRP | | |
| CCFF00
204,255,0
YYB | CCFF33
204,255,51
LYS | 333300
51,51,0
OWY | 666600
102,102,0
ODY | 999900
153,153,0
DFY | CCCC00
204,204,0
DHY | FFFF00
255,255,0
Y | CC9933
204,153,51
MOY | | |
| 99FF00
153,255,0
BSY | CCFF66
204,255,102
LSY | 99CC33
153,204,51
MSY | 666633
102,102,51
DWY | 999933
153,153,51
DDY | CCCC33
204,204,51
MPY | FFFF33
255,255,51
LHY | 996600
153,102,0
DGY | | |
| 66FF00
102,255,0
SSG | 99FF66
153,255,102
LSG | 66CC33
102,204,51
MSG | 669900
102,153,0
DGY | 999966
153,153,102
MWY | CCCC66
204,204,102
LGY | FFFF66
255,255,102
LHY | 996633
153,102,51
DGO | 663300
102,51,0
DGO | |
| 33FF00
51,255,0
OGG | 66FF33
102,255,51
LGG | 339900
51,153,0
DGO | 66CC00
102,204,0
DHS | 99FF33
153,255,51
LHS | CCCC99
204,204,153
UVY | FFFF99
255,255,153
POY | CC9966
204,153,102
DHO | CC6600
204,102,0
DHO | |
| 00CC00
0,204,0
DNG | 33CC00
51,204,0
DGS | 336600
51,102,0
DOS | 669933
102,153,51
DOS | 99CC66
153,204,102
LDS | CCFF99
204,255,153
POS | FFFFCC
255,255,204
PWY | FFCC99
255,204,153
FDO | FF9933
255,153,51
LHO | |
| 33CC33
51,204,51
NFO | 66CC66
102,204,102
LDG | 00FF00
0,255,0
G | 33FF33
51,255,51
LHG | 66FF66
102,255,102
LFG | 99FF99
153,255,153
POG | CCFFCC
204,255,204
PWG | CC99CC
204,153,204
LWM | 996699
153,102,153
DWM | |
| 006600
0,102,0
ODG | 336633
51,102,51
DWS | 009900
0,153,0
DFG | 339933
51,153,51
DGS | 669966
102,153,102
MWG | 99CC99
153,204,153
LWG | FFCCFF
255,204,255
PWM | FF99FF
255,153,255
PDM | FF66FF
255,102,255
LFM | |
| 003300
0,51,0
OWG | 00CC33
0,204,51
DGT | 006633
0,102,51
OOT | 339966
51,153,102
DDT | 66CC99
102,204,153
LDT | 99FFCC
153,255,204
PDT | CCFFFF
204,255,255
PWC | 3399FF
51,153,255
LVA | 99CCFF
204,204,255
PDA | |
| 00FF33
0,255,51
GGT | 33FF66
51,255,102
LGT | 009933
0,153,51
DTG | 00CC66
0,204,102
DHT | 33FF99
51,255,153
LHT | 99FFFF
153,255,255
PDC | 99CCCC
153,204,204
UVC | 0066CC
0,102,204
DHA | 6699CC
102,153,204
LDA | |
| 00FF66
0,255,102
TTG | 66FF99
102,255,153
LTG | 33CC66
51,204,102
MTG | 009966
0,153,102
DTC | 66FFFF
102,255,255
LFC | 66CCCC
102,204,204
LGC | 669999
102,153,153
MWG | 003366
0,51,102
ODA | 336699
51,102,153
DGA | |
| 00FF99
0,255,153
TTC | 66FFCC
102,255,204
LTC | 33CC99
51,204,153
MTC | 33FFFF
51,255,255
LHC | 33CCCC
51,204,204
MPC | 339999
51,153,153
DOC | 336666
51,102,102
DWC | 006699
0,102,153
DAC | 003399
0,51,153
DAB | |
| 00FFCC
0,255,204
OCT | 33FFCC
51,255,204
LCT | 00FFFF
0,255,255
C | 00CCCC
0,204,204
DHC | 009999
0,153,153
DFC | 006666
0,102,102
DDC | 003333
0,51,51
OWC | 3399CC
51,153,204
MAC | 3366CC
51,102,204
MAB | |
| 00CC99
0,204,153
OCT |  | | | | 0099CC
0,153,204
OCA | 33CCFF
51,204,255
LOA | 66CCFF
102,204,255
LAC | 6699FF
102,153,255
LAB | 3366FF
51,102,255
LBA |
| Sources:
Christine
Rigden,
BT Labs,
Thomas Wolfmaier, HCIRN,
www.visibone.com/colorblind | 00CCFF
0,204,255
CCA | 0099FF
0,153,255
AAC | 0066FF
0,102,255
AAB | 0033FF
0,51,255
BBA | 0000FF
0,0,255
B | 0000CC
0,0,204
DAB | 000099
0,0,153
DFB | 000066
0,0,102
OBB | 000033
0,0,51
OWB |

hexadecimal HTML,
decimal RGB
www.visibone.com/vaccc

This figure
simulates
deutanopia,
one of many
forms of
color blind-
ness. Color
blindness affects about
1 in 12 men
and 1 in 250
women.

The 216-Color Webmaster's Palette

Here are the colors most widely supported by browsers on the world-wide web. Using colors from this set for backgrounds, fonts and graphics will give your web site the best chance of a consistent appearance across operating systems, color monitors and browser versions. This is particularly true of older computers with limited color palettes that can display only 256 different colors at a time.

Each color chip here is stamped with a hexadecimal HTML color code: CCFF00. These codes can be used to specify the background color of a web page <BODY BGCOLOR="#CCFF00"> or table cell, <TD BGCOLOR="#00FF00">.

To color text, you could use these codes in style sheets H1 {color: #FFCC99} or the officially unfashionable FONT element, entrenched by older browser demand.

Hyperlink colors use these codes too. #CCCC99 VLINK="#CCCC99" ALINK="#FFFFFF">

Each color chip here is marked with its decimal RGB values: 204,255,0. These are common in graphics tools and can be used in style sheets.

H1 {color: rgb(255,204,153)}

