

# JavaScript - Unit Converter

June 2014

The script below defines a converter for units of measurements that works with Javascript only and that can be used locally in the browser, without the need for server code.

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<script language='Javascript'>

// new units can be added at the end of the list

// if 2 units have the same [number], the first one is ignored

// if 2 units have the same symbol, the second one is ignored

// fundamental SI units : meter, kilogram, second, Ampere, Kelvin, mol, candela

// ex: hr = time = s => m^0.kg^0.s^1.A^0.K^0.mol^0.cd^0

// ex: g = acceleration = m / s^2 => m^1.kg^0.s^-2.A^0.K^0.mol^0.cd^0

// ex: V = tension = kg.m^2/s^3/A => m^2.kg^1.s^-3.A^-1.K^0.mol^0.cd^0

all_units = new Array();

all_units[0] = new Array("Unit","Symbol","Value","m","kg","s","A","K","mol","cd");

all_units[1] = new Array("g","g",0.0000000006672,3,-1,-2,0,0,0,0);

all_units[2] = new Array("na","na",6.022169,0,0,0,0,-1,0);

all_units[3] = new Array("yocto","yocto",1E-024,0,0,0,0,0,0,0);

all_units[4] = new Array("zepto","zepto",1E-021,0,0,0,0,0,0,0);

all_units[5] = new Array("atto","atto",1E-018,0,0,0,0,0,0,0);

all_units[6] = new Array("femto","femto",1E-015,0,0,0,0,0,0,0);

all_units[7] = new Array("pico","pico",0.0000000001,0,0,0,0,0,0,0);

all_units[8] = new Array("nano","nano",0.000000001,0,0,0,0,0,0,0);

all_units[9] = new Array("micro","micro",0.000001,0,0,0,0,0,0,0);

all_units[10] = new Array("milli","milli",0.001,0,0,0,0,0,0,0);

all_units[11] = new Array("centi","centi",0.01,0,0,0,0,0,0,0);

all_units[12] = new Array("deci","deci",0.1,0,0,0,0,0,0,0);

all_units[13] = new Array("demi","demi",0.5,0,0,0,0,0,0,0);

all_units[14] = new Array("semi","semi",0.5,0,0,0,0,0,0,0);

all_units[15] = new Array("kibi","kibi",8,0,0,0,0,0,0,0);

all_units[16] = new Array("deca","deca",10,0,0,0,0,0,0,0);

all_units[17] = new Array("deka","deka",10,0,0,0,0,0,0,0);

all_units[18] = new Array("mebi","mebi",22,0,0,0,0,0,0,0);

all_units[19] = new Array("gibi","gibi",28,0,0,0,0,0,0,0);

all_units[20] = new Array("tebi","tebi",42,0,0,0,0,0,0,0);

all_units[21] = new Array("pebi","pebi",48,0,0,0,0,0,0,0);
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all_units[22] = new Array("exbi","exbi",62,0,0,0,0,0,0,0);  
all_units[23] = new Array("hecto","hecto",100,0,0,0,0,0,0,0);  
all_units[24] = new Array("kilo","kilo",1000,0,0,0,0,0,0,0);  
all_units[25] = new Array("mega","Mega",1000000,0,0,0,0,0,0,0);  
all_units[26] = new Array("giga","Giga",1000000000,0,0,0,0,0,0,0);  
all_units[27] = new Array("tera","Tera",1000000000000,0,0,0,0,0,0,0);  
all_units[28] = new Array("peta","Peta",1E+015,0,0,0,0,0,0,0);  
all_units[29] = new Array("exa","Exa",1E+018,0,0,0,0,0,0,0);  
all_units[30] = new Array("zetta","Zetta",1E+021,0,0,0,0,0,0,0);  
all_units[31] = new Array("yotta","Yotta",1E+024,0,0,0,0,0,0,0);  
all_units[32] = new Array("g0","g0",9.80665,1,0,-2,0,0,0,0);  
all_units[33] = new Array("barn","barn",1E-028,2,0,0,0,0,0,0);  
all_units[34] = new Array("barns","barns",1E-028,2,0,0,0,0,0,0);  
all_units[35] = new Array("are","are",100,2,0,0,0,0,0,0);  
all_units[36] = new Array("ares","ares",100,2,0,0,0,0,0,0);  
all_units[37] = new Array("acre","acre",4046.8564224,2,0,0,0,0,0,0);  
all_units[38] = new Array("acres","acres",4046.8564224,2,0,0,0,0,0,0);  
all_units[39] = new Array("hectare","hectare",10000,2,0,0,0,0,0,0);  
all_units[40] = new Array("hectares","hectares",10000,2,0,0,0,0,0,0);  
all_units[41] = new Array("pf","pf",0.00000000001,-2,-1,4,2,0,0,0);  
all_units[42] = new Array("statfarad","statfarad",0.0000000001113,-2,-1,4,2,0,0,0);  
all_units[43] = new Array("statfarads","statfarads",0.00000000001113,-2,-1,4,2,0,0,0);  
all_units[44] = new Array("uf","uf",0.000001,-2,-1,4,2,0,0,0);  
all_units[45] = new Array("f","f",1,-2,-1,4,2,0,0,0);  
all_units[46] = new Array("farad","farad",1,-2,-1,4,2,0,0,0);  
all_units[47] = new Array("farads","farads",1,-2,-1,4,2,0,0,0);  
all_units[48] = new Array("abfarad","abfarad",1000000000,-2,-1,4,2,0,0,0);  
all_units[49] = new Array("abfarads","abfarads",1000000000,-2,-1,4,2,0,0,0);  
all_units[50] = new Array("elementary-charge","elementary-charge",1.6021892E-019,0,0,1,1,0,0,0);  
all_units[51] = new Array("eq","eq",1.6021892E-019,0,0,1,1,0,0,0);  
all_units[52] = new Array("statcoul","statcoul",0.000000003336,0,0,1,1,0,0,0);  
all_units[53] = new Array("statcoulomb","statcoulomb",0.000000003336,0,0,1,1,0,0,0);  
all_units[54] = new Array("statcoulombs","statcoulombs",0.000000003336,0,0,1,1,0,0,0);  
all_units[55] = new Array("coul","Coul",1,0,0,1,1,0,0,0);  
all_units[56] = new Array("coulomb","Coulomb",1,0,0,1,1,0,0,0);  
all_units[57] = new Array("coulomb","C",1,0,0,1,1,0,0,0);  
all_units[58] = new Array("abcoul","abcoul",10,0,0,1,1,0,0,0);  
all_units[59] = new Array("abcoulomb","abcoulomb",10,0,0,1,1,0,0,0);  
all_units[60] = new Array("abcoulombs","abcoulombs",10,0,0,1,1,0,0,0);
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all_units[61] = new Array("mho","mho",1,-2,-1,3,2,0,0,0);
all_units[62] = new Array("mhos","mhos",1,-2,-1,3,2,0,0,0);
all_units[63] = new Array("siemens","Siemens",1,-2,-1,3,2,0,0,0);
all_units[64] = new Array("statamp","statamp","0.0000000003336",0,0,0,1,0,0,0);
all_units[65] = new Array("statampere","statampere","0.0000000003336",0,0,0,1,0,0,0);
all_units[66] = new Array("statamperes","statamperes","0.0000000003336",0,0,0,1,0,0,0);
all_units[67] = new Array("statamps","statamps","0.0000000003336",0,0,0,1,0,0,0);
all_units[68] = new Array("ÂµA","ÂµA","0.000001",0,0,0,1,0,0,0);
all_units[69] = new Array("mA","mA","0.001",0,0,0,1,0,0,0);
all_units[70] = new Array("amp","amp",1,0,0,0,1,0,0,0);
all_units[71] = new Array("Ampere","Ampere",1,0,0,0,1,0,0,0);
all_units[72] = new Array("Amperes","Amperes",1,0,0,0,1,0,0,0);
all_units[73] = new Array("A","A",1,0,0,0,1,0,0,0);
all_units[74] = new Array("abamp","abamp",10,0,0,0,1,0,0,0);
all_units[75] = new Array("abampere","abampere",10,0,0,0,1,0,0,0);
all_units[76] = new Array("abamperes","abamperes",10,0,0,0,1,0,0,0);
all_units[77] = new Array("abamps","abamps",10,0,0,0,1,0,0,0);
all_units[78] = new Array("bit","bit",1,0,0,0,0,0,0,0);
all_units[79] = new Array("bits","bits",1,0,0,0,0,0,0,0);
all_units[80] = new Array("byte","byte",8,0,0,0,0,0,0,0);
all_units[81] = new Array("bytes","bytes",8,0,0,0,0,0,0,0);
all_units[82] = new Array("quintillionth","quintillionth",1E-018,0,0,0,0,0,0,0);
all_units[83] = new Array("quadrillionth","quadrillionth",1E-015,0,0,0,0,0,0,0);
all_units[84] = new Array("trillionth","trillionth","0.000000000001",0,0,0,0,0,0,0);
all_units[85] = new Array("billionth","billionth","0.000000001",0,0,0,0,0,0,0);
all_units[86] = new Array("millionth","millionth","0.000001",0,0,0,0,0,0,0);
all_units[87] = new Array("thousandth","thousandth","0.001",0,0,0,0,0,0,0);
all_units[88] = new Array("%","%",0.01",0,0,0,0,0,0,0);
all_units[89] = new Array("hundredth","hundredth","0.01",0,0,0,0,0,0,0);
all_units[90] = new Array("percent","percent","0.01",0,0,0,0,0,0,0);
all_units[91] = new Array("tenth","tenth","0.1",0,0,0,0,0,0,0);
all_units[92] = new Array("e","e",2.71828182845904",0,0,0,0,0,0,0);
all_units[93] = new Array("pi","pi",3.14159265358979",0,0,0,0,0,0,0);
all_units[94] = new Array("hundred","hundred",100,0,0,0,0,0,0,0);
all_units[95] = new Array("hundreds","hundreds",100,0,0,0,0,0,0,0);
all_units[96] = new Array("gross","gross",144,0,0,0,0,0,0,0);
all_units[97] = new Array("thousand","thousand",1000,0,0,0,0,0,0,0);
all_units[98] = new Array("thousands","thousands",1000,0,0,0,0,0,0,0);
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all_units[99] = new Array("million","million",1000000,0,0,0,0,0,0,0);  
all_units[100] = new Array("millions","millions",1000000,0,0,0,0,0,0,0);  
all_units[101] = new Array("billion","billion",1000000000,0,0,0,0,0,0,0);  
all_units[102] = new Array("billions","billions",1000000000,0,0,0,0,0,0,0);  
all_units[103] = new Array("trillion","trillion",1000000000000,0,0,0,0,0,0,0);  
all_units[104] = new Array("trillions","trillions",10000000000000,0,0,0,0,0,0,0);  
all_units[105] = new Array("quadrillion","quadrillion",1E+015,0,0,0,0,0,0,0);  
all_units[106] = new Array("quadrillions","quadrillions",1E+015,0,0,0,0,0,0,0);  
all_units[107] = new Array("quintillion","quintillion",1E+018,0,0,0,0,0,0,0);  
all_units[108] = new Array("quintillions","quintillions",1E+018,0,0,0,0,0,0,0);  
all_units[109] = new Array("Ang","Ang", "0.000000001",1,0,0,0,0,0,0);  
all_units[110] = new Array("Angstrom","Angstrom", "0.000000001",1,0,0,0,0,0,0);  
all_units[111] = new Array("Angstroms","Angstroms", "0.000000001",1,0,0,0,0,0,0);  
all_units[112] = new Array("micron","micron", "0.000001",1,0,0,0,0,0,0);  
all_units[113] = new Array("mm","mm", "0.001",1,0,0,0,0,0,0);  
all_units[114] = new Array("Âµm","Âµm", "0.000001",1,0,0,0,0,0,0);  
all_units[115] = new Array("mil","mil", "0.0000254",1,0,0,0,0,0,0);  
all_units[116] = new Array("mils","mils", "0.0000254",1,0,0,0,0,0,0);  
all_units[117] = new Array("point","point", "0.000352777777778",1,0,0,0,0,0,0);  
all_units[118] = new Array("pica","pica", "0.00423333333333",1,0,0,0,0,0,0);  
all_units[119] = new Array("cm","cm", "0.01",1,0,0,0,0,0,0);  
all_units[120] = new Array("in","in", "0.0254",1,0,0,0,0,0,0);  
all_units[121] = new Array("inch","inch", "0.0254",1,0,0,0,0,0,0);  
all_units[122] = new Array("inches","inches", "0.0254",1,0,0,0,0,0,0);  
all_units[123] = new Array("feet","feet", "0.3048",1,0,0,0,0,0,0);  
all_units[124] = new Array("foot","foot", "0.3048",1,0,0,0,0,0,0);  
all_units[125] = new Array("ft","ft", "0.3048",1,0,0,0,0,0,0);  
all_units[126] = new Array("yard","yard", "0.9144",1,0,0,0,0,0,0);  
all_units[127] = new Array("yards","yards", "0.9144",1,0,0,0,0,0,0);  
all_units[128] = new Array("m","m",1,1,0,0,0,0,0,0);  
all_units[129] = new Array("meter","meter",1,1,0,0,0,0,0,0);  
all_units[130] = new Array("meters","meters",1,1,0,0,0,0,0,0);  
all_units[131] = new Array("fathom","fathom",18288,1,0,0,0,0,0,0);  
all_units[132] = new Array("fathoms","fathoms",18288,1,0,0,0,0,0,0);  
all_units[133] = new Array("perch","perch",50292,1,0,0,0,0,0,0);  
all_units[134] = new Array("perches","perches",50292,1,0,0,0,0,0,0);  
all_units[135] = new Array("pole","pole",50292,1,0,0,0,0,0,0);  
all_units[136] = new Array("poles","poles",50292,1,0,0,0,0,0,0);  
all_units[137] = new Array("rod","rod",50292,1,0,0,0,0,0,0);
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all_units[138] = new Array("rods","rods",50292,1,0,0,0,0,0,0);
all_units[139] = new Array("furlong","furlong","201.168",1,0,0,0,0,0,0);
all_units[140] = new Array("furlongs","furlongs","201.168",1,0,0,0,0,0,0);
all_units[141] = new Array("km","km",1000,1,0,0,0,0,0,0);
all_units[142] = new Array("mi","mi","1609.344",1,0,0,0,0,0,0);
all_units[143] = new Array("mile","mile","1609.344",1,0,0,0,0,0,0);
all_units[144] = new Array("miles","miles","1609.344",1,0,0,0,0,0,0);
all_units[145] = new Array("nautical-mile","nautical-mile",1852,1,0,0,0,0,0,0);
all_units[146] = new Array("nautical-miles","nautical-miles",1852,1,0,0,0,0,0,0);
all_units[147] = new Array("nauticalmile","nauticalmile",1852,1,0,0,0,0,0,0);
all_units[148] = new Array("nauticalmiles","nauticalmiles",1852,1,0,0,0,0,0,0);
all_units[149] = new Array("NM","NM",1852,1,0,0,0,0,0,0);
all_units[150] = new Array("rp","rp",6356912,1,0,0,0,0,0,0);
all_units[151] = new Array("re","re",6378388,1,0,0,0,0,0,0);
all_units[152] = new Array("astronomical-unit","astronomical-unit",149598000000,1,0,0,0,0,0,0);
all_units[153] = new Array("au","au",149598000000,1,0,0,0,0,0,0);
all_units[154] = new Array("light-year","light-year","9.46E+015",1,0,0,0,0,0,0);
all_units[155] = new Array("light-years","light-years","9.46E+015",1,0,0,0,0,0,0);
all_units[156] = new Array("lightyear","lightyear","9.46E+015",1,0,0,0,0,0,0);
all_units[157] = new Array("lightyears","lightyears","9.46E+015",1,0,0,0,0,0,0);
all_units[158] = new Array("ly","ly","9.46E+015",1,0,0,0,0,0,0);
all_units[159] = new Array("parsec","parsec","3.083E+016",1,0,0,0,0,0,0);
all_units[160] = new Array("parsecs","parsecs","3.083E+016",1,0,0,0,0,0,0);
all_units[161] = new Array("rad","rad","0.01",2,0,-2,0,0,0,0);
all_units[162] = new Array("rem","rem","0.01",2,0,-2,0,0,0,0);
all_units[163] = new Array("gray","gray",1,2,0,-2,0,0,0,0);
all_units[164] = new Array("gy","gy",1,2,0,-2,0,0,0,0);
all_units[165] = new Array("Sievert","Sievert",1,2,0,-2,0,0,0,0);
all_units[166] = new Array("Sv","Sv",1,2,0,-2,0,0,0,0);
all_units[167] = new Array("abvolt","abvolt","0.00000001",2,1,-3,-1,0,0,0);
all_units[168] = new Array("abvolts","abvolts","0.00000001",2,1,-3,-1,0,0,0);
all_units[169] = new Array("ÂµV","ÂµV","0.000001",2,1,-3,-1,0,0,0);
all_units[170] = new Array("mV","mV","0.001",2,1,-3,-1,0,0,0);
all_units[171] = new Array("V","V",1,2,1,-3,-1,0,0,0);
all_units[172] = new Array("Volt","Volt",1,2,1,-3,-1,0,0,0);
all_units[173] = new Array("volts","Volts",1,2,1,-3,-1,0,0,0);
all_units[174] = new Array("statvolt","statvolt","299.8",2,1,-3,-1,0,0,0);
all_units[175] = new Array("statvolts","statvolts","299.8",2,1,-3,-1,0,0,0);
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all_units[176] = new Array("electron-volt","electron-volt","1.60217733E-019",2,1,-2,0,0,0,0);
all_units[177] = new Array("electron-volts","electron-volts","1.60217733E-019",2,1,-2,0,0,0,0);
all_units[178] = new Array("electronvolt","electronvolt","1.60217733E-019",2,1,-2,0,0,0,0);
all_units[179] = new Array("electronvolts","electronvolts","1.60217733E-019",2,1,-2,0,0,0,0);
all_units[180] = new Array("ev","eV","1.60217733E-019",2,1,-2,0,0,0,0);
all_units[181] = new Array("mev","meV","0.00000000000160217733",2,1,-2,0,0,0,0);
all_units[182] = new Array("gev","GeV","0.000000000160217733",2,1,-2,0,0,0,0);
all_units[183] = new Array("erg","erg","0.0000001",2,1,-2,0,0,0,0);
all_units[184] = new Array("ergs","ergs","0.0000001",2,1,-2,0,0,0,0);
all_units[185] = new Array("teV","teV","0.000000160217733",2,1,-2,0,0,0,0);
all_units[186] = new Array("Joule","J",1,2,1,-2,0,0,0,0);
all_units[187] = new Array("joule","Joule",1,2,1,-2,0,0,0,0);
all_units[188] = new Array("joules","Joules",1,2,1,-2,0,0,0,0);
all_units[189] = new Array("cal","Cal",4184,2,1,-2,0,0,0,0);
all_units[190] = new Array("calorie","Calorie",4184,2,1,-2,0,0,0,0);
all_units[191] = new Array("calories","Calories",4184,2,1,-2,0,0,0,0);
all_units[192] = new Array("british-thermal-unit","british-thermal-unit","1055.056",2,1,-2,0,0,0,0);
all_units[193] = new Array("british-thermal-units","british-thermal-units","1055.056",2,1,-2,0,0,0,0);
all_units[194] = new Array("britishthermalunit","britishthermalunit","1055.056",2,1,-2,0,0,0,0);
all_units[195] = new Array("britishthermalunits","britishthermalunits","1055.056",2,1,-2,0,0,0,0);
all_units[196] = new Array("Btu","Btu","1055.056",2,1,-2,0,0,0,0);
all_units[197] = new Array("Btus","Btus","1055.056",2,1,-2,0,0,0,0);
all_units[198] = new Array("kcal","kcal",4184,2,1,-2,0,0,0,0);
all_units[199] = new Array("kwh","kwh",3600000,2,1,-2,0,0,0,0);
all_units[200] = new Array("dyne","dyne",10,1,1,-2,0,0,0,0);
all_units[201] = new Array("dynes","dynes",10,1,1,-2,0,0,0,0);
all_units[202] = new Array("gram-force","gram-force","0.00980665",1,1,-2,0,0,0,0);
all_units[203] = new Array("gram-weight","gram-weight","0.00980665",1,1,-2,0,0,0,0);
all_units[204] = new Array("ounce-force","ounce-force","0.278013850953781",1,1,-2,0,0,0,0);
all_units[205] = new Array("ozf","ozf","0.278013850953781",1,1,-2,0,0,0,0);
all_units[206] = new Array("newton","newton",1,1,1,-2,0,0,0,0);
all_units[207] = new Array("N","N",1,1,1,-2,0,0,0,0);
all_units[208] = new Array("nt","nt",1,1,1,-2,0,0,0,0);
all_units[209] = new Array("lb","lb","4.4482216152605",1,1,-2,0,0,0,0);
all_units[210] = new Array("lbf","lbf","4.4482216152605",1,1,-2,0,0,0,0);
all_units[211] = new Array("lbs","lbs","4.4482216152605",1,1,-2,0,0,0,0);
all_units[212] = new Array("pound","pound","4.4482216152605",1,1,-2,0,0,0,0);
all_units[213] = new Array("pound-force","pound-force","4.4482216152605",1,1,-2,0,0,0,0);
all_units[214] = new Array("pound-weight","pound-weight","4.4482216152605",1,1,-2,0,0,0,0);
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all_units[215] = new Array("pounds","pounds","4.4482216152605",1,1,-2,0,0,0,0);
all_units[216] = new Array("pounds-force","pounds-force","4.4482216152605",1,1,-2,0,0,0,0);
all_units[217] = new Array("kgf","kgf","9.80665",1,1,-2,0,0,0,0);
all_units[218] = new Array("rpm","rpm","0.0166666666666667",0,0,-1,0,0,0,0);
all_units[219] = new Array("becquerel","becquerel",1,0,0,-1,0,0,0,0);
all_units[220] = new Array("Bq","Bq",1,0,0,-1,0,0,0,0);
all_units[221] = new Array("hertz","hertz",1,0,0,-1,0,0,0,0);
all_units[222] = new Array("Hz","Hz",1,0,0,-1,0,0,0,0);
all_units[223] = new Array("abhenry","abhenry","0.000000001",2,1,-2,-2,0,0,0);
all_units[224] = new Array("abhenrys","abhenrys","0.000000001",2,1,-2,-2,0,0,0);
all_units[225] = new Array("uH","uH","0.000001",2,1,-2,-2,0,0,0);
all_units[226] = new Array("mH","mH","0.001",2,1,-2,-2,0,0,0);
all_units[227] = new Array("Henry","Henry",1,2,1,-2,-2,0,0,0);
all_units[228] = new Array("Henrys","H",1,2,1,-2,-2,0,0,0);
all_units[229] = new Array("stathenry","stathenry",898700000000,2,1,-2,-2,0,0,0);
all_units[230] = new Array("stathenrys","stathenrys",898700000000,2,1,-2,-2,0,0,0);
all_units[231] = new Array("candela","candela",1,0,0,0,0,0,0,1);
all_units[232] = new Array("candelas","candelas",1,0,0,0,0,0,0,1);
all_units[233] = new Array("candle","candle",1,0,0,0,0,0,0,1);
all_units[234] = new Array("candles","candles",1,0,0,0,0,0,0,1);
all_units[235] = new Array("cd","cd",1,0,0,0,0,0,0,1);
all_units[236] = new Array("gauss","gauss","0.0001",1,0,-2,-1,0,0,0);
all_units[237] = new Array("tesla","tesla",1,1,0,-2,-1,0,0,0);
all_units[238] = new Array("teslas","T",1,1,0,-2,-1,0,0,0);
all_units[239] = new Array("maxwell","maxwell","0.00000001",2,1,-2,-1,0,0,0);
all_units[240] = new Array("maxwells","maxwells","0.00000001",2,1,-2,-1,0,0,0);
all_units[241] = new Array("wb","Wb",1,2,1,-2,-1,0,0,0);
all_units[242] = new Array("weber","weber",1,2,1,-2,-1,0,0,0);
all_units[243] = new Array("webers","webers",1,2,1,-2,-1,0,0,0);
all_units[244] = new Array("amu","amu","1.6605402E-027",0,1,0,0,0,0,0);
all_units[245] = new Array("atomic-mass-unit","atomic-mass-unit","1.6605402E-027",0,1,0,0,0,0,0);
all_units[246] = new Array("atomic-mass-units","atomic-mass-units","1.6605402E-027",0,1,0,0,0,0,0);
all_units[247] = new Array("u","u","1.6605402E-027",0,1,0,0,0,0,0);
all_units[248] = new Array("ug","ug","0.000000001",0,1,0,0,0,0,0);
all_units[249] = new Array("mg","mg","0.000001",0,1,0,0,0,0,0);
all_units[250] = new Array("cg","cg","0.00001",0,1,0,0,0,0,0);
all_units[251] = new Array("grain","grain","0.0000648",0,1,0,0,0,0,0);
all_units[252] = new Array("grains","grains","0.0000648",0,1,0,0,0,0,0);
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all_units[253] = new Array("dg","dg","0.0001",0,1,0,0,0,0,0);
all_units[254] = new Array("carat","carat","0.0002",0,1,0,0,0,0,0);
all_units[255] = new Array("carats","carats","0.0002",0,1,0,0,0,0,0);
all_units[256] = new Array("karat","karat","0.0002",0,1,0,0,0,0,0);
all_units[257] = new Array("karats","karats","0.0002",0,1,0,0,0,0,0);
all_units[258] = new Array("j-point","j-point","0.0004",0,1,0,0,0,0,0);
all_units[259] = new Array("gm","gm","0.001",0,1,0,0,0,0,0);
all_units[260] = new Array("gram","gram","0.001",0,1,0,0,0,0,0);
all_units[261] = new Array("grams","grams","0.001",0,1,0,0,0,0,0);
all_units[262] = new Array("scruple","scruple","0.001296",0,1,0,0,0,0,0);
all_units[263] = new Array("scruples","scruples","0.001296",0,1,0,0,0,0,0);
all_units[264] = new Array("pennyweight","pennyweight","0.001555",0,1,0,0,0,0,0);
all_units[265] = new Array("pennyweights","pennyweights","0.001555",0,1,0,0,0,0,0);
all_units[266] = new Array("dram","dram","0.0017718451953125",0,1,0,0,0,0,0);
all_units[267] = new Array("drams","drams","0.0017718451953125",0,1,0,0,0,0,0);
all_units[268] = new Array("dag","dag","0.01",0,1,0,0,0,0,0);
all_units[269] = new Array("ounce","ounce","0.028349523125",0,1,0,0,0,0,0);
all_units[270] = new Array("ounces","ounces","0.028349523125",0,1,0,0,0,0,0);
all_units[271] = new Array("oz","oz","0.028349523125",0,1,0,0,0,0,0);
all_units[272] = new Array("ounce-troy","ounce-troy","0.031103",0,1,0,0,0,0,0);
all_units[273] = new Array("ounces-troy","ounces-troy","0.031103",0,1,0,0,0,0,0);
all_units[274] = new Array("troy-ounce","troy-ounce","0.031103",0,1,0,0,0,0,0);
all_units[275] = new Array("troy-ounces","troy-ounces","0.031103",0,1,0,0,0,0,0);
all_units[276] = new Array("hg","hg","0.1",0,1,0,0,0,0,0);
all_units[277] = new Array("troy-pound","troy-pound","0.373",0,1,0,0,0,0,0);
all_units[278] = new Array("troy-pounds","troy-pounds","0.373",0,1,0,0,0,0,0);
all_units[279] = new Array("lbm","lbm","0.45359237",0,1,0,0,0,0,0);
all_units[280] = new Array("lbms","lbms","0.45359237",0,1,0,0,0,0,0);
all_units[281] = new Array("pound-mass","pound-mass","0.45359237",0,1,0,0,0,0,0);
all_units[282] = new Array("pounds-mass","pounds-mass","0.45359237",0,1,0,0,0,0,0);
all_units[283] = new Array("kg","kg",1,0,1,0,0,0,0,0);
all_units[284] = new Array("stone","stone","6.35029318",0,1,0,0,0,0,0);
all_units[285] = new Array("stones","stones","6.35029318",0,1,0,0,0,0,0);
all_units[286] = new Array("slug","slug","14.5939029372064",0,1,0,0,0,0,0);
all_units[287] = new Array("slugs","slugs","14.5939029372064",0,1,0,0,0,0,0);
all_units[288] = new Array("hundredweight","hundredweight","45.359237",0,1,0,0,0,0,0);
all_units[289] = new Array("hundredweights","hundredweights","45.359237",0,1,0,0,0,0,0);
all_units[290] = new Array("short-ton","short-ton","907.18474",0,1,0,0,0,0,0);
all_units[291] = new Array("short-tons","short-tons","907.18474",0,1,0,0,0,0,0);
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all_units[292] = new Array("ton","ton","907.18474",0,1,0,0,0,0,0);
all_units[293] = new Array("tons","tons","907.18474",0,1,0,0,0,0,0);
all_units[294] = new Array("metric-ton","metric-ton",1000,0,1,0,0,0,0,0);
all_units[295] = new Array("metric-tons","metric-tons",1000,0,1,0,0,0,0,0);
all_units[296] = new Array("tonne","tonne",1000,0,1,0,0,0,0,0);
all_units[297] = new Array("tonnes","tonnes",1000,0,1,0,0,0,0,0);
all_units[298] = new Array("long-ton","long-ton","1016.0469088",0,1,0,0,0,0,0);
all_units[299] = new Array("long-tons","long-tons","1016.0469088",0,1,0,0,0,0,0);
all_units[300] = new Array("h","h","6.626196E-034",2,1,-3,0,0,0,0);
all_units[301] = new Array("W","W",1,2,1,-3,0,0,0,0);
all_units[302] = new Array("Watt","Watt",1,2,1,-3,0,0,0,0);
all_units[303] = new Array("Watts","Watts",1,2,1,-3,0,0,0,0);
all_units[304] = new Array("horsepower","horsepower","745.69987158227",2,1,-3,0,0,0,0);
all_units[305] = new Array("hp","hp","745.69987158227",2,1,-3,0,0,0,0);
all_units[306] = new Array("Pa","Pa",1,-1,1,-2,0,0,0,0);
all_units[307] = new Array("Pascal","Pascal",1,-1,1,-2,0,0,0,0);
all_units[308] = new Array("torr","torr","133.322368421053",-1,1,-2,0,0,0,0);
all_units[309] = new Array("psi","psi","6894.75729316836",-1,1,-2,0,0,0,0);
all_units[310] = new Array("bar","bar",100000,-1,1,-2,0,0,0,0);
all_units[311] = new Array("bars","bars",100000,-1,1,-2,0,0,0,0);
all_units[312] = new Array("atm","atm",101325,-1,1,-2,0,0,0,0);
all_units[313] = new Array("atmosphere","atmosphere",101325,-1,1,-2,0,0,0,0);
all_units[314] = new Array("abohm","abohm","0.000000001",2,1,-3,-2,0,0,0);
all_units[315] = new Array("abohms","abohms","0.000000001",2,1,-3,-2,0,0,0);
all_units[316] = new Array("Ohm","Ohm",1,2,1,-3,-2,0,0,0);
all_units[317] = new Array("Ohms","Ohms",1,2,1,-3,-2,0,0,0);
all_units[318] = new Array("kilohm","kilohm",1000,2,1,-3,-2,0,0,0);
all_units[319] = new Array("kilohms","kilohms",1000,2,1,-3,-2,0,0,0);
all_units[320] = new Array("megohm","megohm",1000000,2,1,-3,-2,0,0,0);
all_units[321] = new Array("megohms","megohms",1000000,2,1,-3,-2,0,0,0);
all_units[322] = new Array("stohm","stohm",898700000000,2,1,-3,-2,0,0,0);
all_units[323] = new Array("stohms","stohms",898700000000,2,1,-3,-2,0,0,0);
all_units[324] = new Array("kph","kph","0.277777777777778",1,0,-1,0,0,0,0);
all_units[325] = new Array("fps","fps","0.3048",1,0,-1,0,0,0,0);
all_units[326] = new Array("mph","mph","0.44704",1,0,-1,0,0,0,0);
all_units[327] = new Array("knot","kn","0.514444444444444",1,0,-1,0,0,0,0);
all_units[328] = new Array("knots","kt","0.514444444444444",1,0,-1,0,0,0,0);
all_units[329] = new Array("mps","mps",1,1,0,-1,0,0,0,0);
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all_units[330] = new Array("kps","kps",1000,1,0,-1,0,0,0,0);
all_units[331] = new Array("c","c",299792458,1,0,-1,0,0,0,0);
all_units[332] = new Array("speed-of-light","speed-of-light",299792458,1,0,-1,0,0,0,0);
all_units[333] = new Array("mol","mol",1,0,0,0,0,0,1,0);
all_units[334] = new Array("mole","mole",1,0,0,0,0,0,1,0);
all_units[335] = new Array("moles","moles",1,0,0,0,0,0,1,0);
all_units[336] = new Array("degree-rankine","degree-rankine","0.55555555555556",0,0,0,0,0,0,0);
all_units[337] = new Array("degrees-rankine","degrees-rankine","0.55555555555556",0,0,0,0,0,0,0);
all_units[338] = new Array("degree-kelvin","degree-kelvin",1,0,0,0,0,1,0,0);
all_units[339] = new Array("degree-kelvins","degree-kelvins",1,0,0,0,0,1,0,0);
all_units[340] = new Array("degrees-kelvin","degrees-kelvin",1,0,0,0,0,1,0,0);
all_units[341] = new Array("K","K",1,0,0,0,0,1,0,0);
all_units[342] = new Array("Kelvin","Kelvin",1,0,0,0,0,1,0,0);
all_units[343] = new Array("Kelvins","Kelvins",1,0,0,0,0,1,0,0);
all_units[344] = new Array("ps","ps","0.000000000001",0,0,1,0,0,0,0);
all_units[345] = new Array("psec","psec","0.000000000001",0,0,1,0,0,0,0);
all_units[346] = new Array("psecs","psecs","0.000000000001",0,0,1,0,0,0,0);
all_units[347] = new Array("ns","ns","0.000000001",0,0,1,0,0,0,0);
all_units[348] = new Array("nsec","nsec","0.000000001",0,0,1,0,0,0,0);
all_units[349] = new Array("nsecs","nsecs","0.000000001",0,0,1,0,0,0,0);
all_units[350] = new Array("Âµs","Âµs","0.000001",0,0,1,0,0,0,0);
all_units[351] = new Array("Âµsec","Âµsec","0.000001",0,0,1,0,0,0,0);
all_units[352] = new Array("Âµsecs","Âµsecs","0.000001",0,0,1,0,0,0,0);
all_units[353] = new Array("ms","ms","0.001",0,0,1,0,0,0,0);
all_units[354] = new Array("msec","msec","0.001",0,0,1,0,0,0,0);
all_units[355] = new Array("msecs","msecs","0.001",0,0,1,0,0,0,0);
all_units[356] = new Array("s","s",1,0,0,1,0,0,0,0);
all_units[357] = new Array("sec","sec",1,0,0,1,0,0,0,0);
all_units[358] = new Array("second","second",1,0,0,1,0,0,0,0);
all_units[359] = new Array("seconds","seconds",1,0,0,1,0,0,0,0);
all_units[360] = new Array("secs","secs",1,0,0,1,0,0,0,0);
all_units[361] = new Array("min","min",60,0,0,1,0,0,0,0);
all_units[362] = new Array("mins","mins",60,0,0,1,0,0,0,0);
all_units[363] = new Array("minute","minute",60,0,0,1,0,0,0,0);
all_units[364] = new Array("minutes","minutes",60,0,0,1,0,0,0,0);
all_units[365] = new Array("hour","hour",3600,0,0,1,0,0,0,0);
all_units[366] = new Array("hours","hours",3600,0,0,1,0,0,0,0);
all_units[367] = new Array("hr","hr",3600,0,0,1,0,0,0,0);
all_units[368] = new Array("hrs","hrs",3600,0,0,1,0,0,0,0);
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all_units[369] = new Array("day","day",86400,0,0,1,0,0,0,0);
all_units[370] = new Array("days","days",86400,0,0,1,0,0,0,0);
all_units[371] = new Array("week","week",604800,0,0,1,0,0,0,0);
all_units[372] = new Array("weeks","weeks",604800,0,0,1,0,0,0,0);
all_units[373] = new Array("wk","wk",604800,0,0,1,0,0,0,0);
all_units[374] = new Array("fortnight","fortnight",1209600,0,0,1,0,0,0,0);
all_units[375] = new Array("fortnights","fortnights",1209600,0,0,1,0,0,0,0);
all_units[376] = new Array("mon","mon",2629800,0,0,1,0,0,0,0);
all_units[377] = new Array("mons","mons",2629800,0,0,1,0,0,0,0);
all_units[378] = new Array("month","month",2629800,0,0,1,0,0,0,0);
all_units[379] = new Array("months","months",2629800,0,0,1,0,0,0,0);
all_units[380] = new Array("year","year",31557600,0,0,1,0,0,0,0);
all_units[381] = new Array("years","years",31557600,0,0,1,0,0,0,0);
all_units[382] = new Array("yr","yr",31557600,0,0,1,0,0,0,0);
all_units[383] = new Array("yrs","yrs",31557600,0,0,1,0,0,0,0);
all_units[384] = new Array("score","score",631152000,0,0,1,0,0,0,0);
all_units[385] = new Array("scores","scores",631152000,0,0,1,0,0,0,0);
all_units[386] = new Array("centuries","centuries",3155760000,0,0,1,0,0,0,0);
all_units[387] = new Array("century","century",3155760000,0,0,1,0,0,0,0);
all_units[388] = new Array("millenia","millenia",31557600000,0,0,1,0,0,0,0);
all_units[389] = new Array("millenium","millenium",31557600000,0,0,1,0,0,0,0);
all_units[390] = new Array("foot-pound","foot-pound","1.3558179483314",2,1,-2,0,0,0,0);
all_units[391] = new Array("foot-pounds","foot-pounds","1.3558179483314",2,1,-2,0,0,0,0);
all_units[392] = new Array("footpound","footpound","1.3558179483314",2,1,-2,0,0,0,0);
all_units[393] = new Array("footpounds","footpounds","1.3558179483314",2,1,-2,0,0,0,0);
all_units[394] = new Array("ft-lb","ft-lb","1.3558179483314",2,1,-2,0,0,0,0);
all_units[395] = new Array("ftlb","ftlb","1.3558179483314",2,1,-2,0,0,0,0);
all_units[396] = new Array("minim","minim","0.000000059194",3,0,0,0,0,0,0);
all_units[397] = new Array("minims","minims","0.000000059194",3,0,0,0,0,0,0);
all_units[398] = new Array("cc","cc","0.000001",3,0,0,0,0,0,0);
all_units[399] = new Array("ml","ml","0.000001",3,0,0,0,0,0,0);
all_units[400] = new Array("fluidram","fluidram","0.0000035516",3,0,0,0,0,0,0);
all_units[401] = new Array("fluidrams","fluidrams","0.0000035516",3,0,0,0,0,0,0);
all_units[402] = new Array("teaspoon","teaspoon","0.00000492892159375",3,0,0,0,0,0,0);
all_units[403] = new Array("teaspoons","teaspoons","0.00000492892159375",3,0,0,0,0,0,0);
all_units[404] = new Array("tsp","tsp","0.00000492892159375",3,0,0,0,0,0,0);
all_units[405] = new Array("cl","cl","0.00001",3,0,0,0,0,0,0);
all_units[406] = new Array("tablespoon","tablespoon","0.00001478676478125",3,0,0,0,0,0,0);
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all_units[407] = new Array("tablespoons","tablespoons","0.00001478676478125",3,0,0,0,0,0,0);
all_units[408] = new Array("tbsp","tbsp","0.00001478676478125",3,0,0,0,0,0,0);
all_units[409] = new Array("floz","floz","0.0000295735295625",3,0,0,0,0,0,0);
all_units[410] = new Array("fluid-ounce","fluid-ounce","0.0000295735295625",3,0,0,0,0,0,0);
all_units[411] = new Array("fluid-ounces","fluid-ounces","0.0000295735295625",3,0,0,0,0,0,0);
all_units[412] = new Array("fluidounce","fluidounce","0.0000295735295625",3,0,0,0,0,0,0);
all_units[413] = new Array("fluidounces","fluidounces","0.0000295735295625",3,0,0,0,0,0,0);
all_units[414] = new Array("dl","dl","0.0001",3,0,0,0,0,0,0);
all_units[415] = new Array("gill","gill","0.00011829411825",3,0,0,0,0,0,0);
all_units[416] = new Array("gills","gills","0.00011829411825",3,0,0,0,0,0,0);
all_units[417] = new Array("cup","cup","0.0002365882365",3,0,0,0,0,0,0);
all_units[418] = new Array("cups","cups","0.0002365882365",3,0,0,0,0,0,0);
all_units[419] = new Array("pint","pint","0.000473176473",3,0,0,0,0,0,0);
all_units[420] = new Array("pints","pints","0.000473176473",3,0,0,0,0,0,0);
all_units[421] = new Array("pt","pt","0.000473176473",3,0,0,0,0,0,0);
all_units[422] = new Array("fifth","fifth","0.0007570823568",3,0,0,0,0,0,0);
all_units[423] = new Array("fifths","fifths","0.0007570823568",3,0,0,0,0,0,0);
all_units[424] = new Array("qt","qt","0.000946352946",3,0,0,0,0,0,0);
all_units[425] = new Array("quart","quart","0.000946352946",3,0,0,0,0,0,0);
all_units[426] = new Array("quarts","quarts","0.000946352946",3,0,0,0,0,0,0);
all_units[427] = new Array("l","l","0.001",3,0,0,0,0,0,0);
all_units[428] = new Array("liter","liter","0.001",3,0,0,0,0,0,0);
all_units[429] = new Array("L","L","0.001",3,0,0,0,0,0,0);
all_units[430] = new Array("gal","gal","0.003785411784",3,0,0,0,0,0,0);
all_units[431] = new Array("gallon","gallon","0.003785411784",3,0,0,0,0,0,0);
all_units[432] = new Array("gallons","gallons","0.003785411784",3,0,0,0,0,0,0);
all_units[433] = new Array("peck","peck","0.007570823568",3,0,0,0,0,0,0);
all_units[434] = new Array("pecks","pecks","0.007570823568",3,0,0,0,0,0,0);
all_units[435] = new Array("bushel","bushel","0.030283294272",3,0,0,0,0,0,0);
all_units[436] = new Array("bushels","bushels","0.030283294272",3,0,0,0,0,0,0);
all_units[437] = new Array("Angstrom","Å...","1e-10",1,0,0,0,0,0,0);
all_units[438] = new Array("Degree Celcius","°C",0,0,0,0,1,0,0);
all_units[439] = new Array("Degree Farenheit","°F","1.8",0,0,0,1,0,0);
all_units[440] = new Array("siemens","S",1,-2,-1,3,2,0,0,0);

function min(a,b) {if (a<b) return(a); else return(b);}

function max(a,b) {if (a>b) return(a); else return(b);}

function analyze(coef,str) //=====

```

splits units into fundamental SI units

```

{
var pos_dot;
var pos_slash;
var pos;
var unit;
var exponent;
var invert_next = 0;
var list_units_in = new Array();
var table_base = new Array(coef,0,0,0,0,0,0);
str = str + ".";
var i = 0;
while(str.length > 1) // for every unit in the unit input string
{
    pos_dot = str.indexOf(".");
    pos_slash = str.indexOf("/");
    if (pos_dot == -1 || pos_slash == -1)
        pos = max(pos_dot,pos_slash);
    else
        pos = min(max(pos_dot,0),max(pos_slash,0));
    list_units_in[i] = str.substring(0,pos);
    str= str.substring(pos+1,str.length);

    pos_exp = list_units_in[i].indexOf("^");
    if (pos_exp == -1) // if there is no exponent
    {
        unit = list_units_in[i];
        exponent = 1;
    }
    else // there is an exponent
    {
        unit = list_units_in[i].substring(0,pos_exp);
        exponent = list_units_in[i].substring(pos_exp+1,list_units_in[i].length);
    }

    // if there is a / after the unit, next exponent is to be inverted
    if (invert_next) exponent = -exponent;
    if (pos == pos_slash) invert_next=1; else invert_next=0;
}

```

```

table_base_unit = fetch_unit(unit); // get the SI equivalent of the selected unit

if (table_base_unit) // if found in the list
{
    table_base[0] = table_base[0] * Math.pow(table_base_unit[2],exponent);

    for (j=1; j < 8; j++) // on incrémenté les exposants des unités de base
    {
        table_base[j] = table_base[j] + ( exponent * table_base_unit[j+2] );
    }
}

else return(0); // there is a problem

i = i + 1;

}

return(table_base);
}

function fetch_unit(symbol) //=====
{
    k = 1;

    while (all_units[k])
    {
        if (all_units[k][1] == symbol) return(all_units[k]); // found !
        k = k + 1;
    }

    return(0); // not found
}

function exp_nice(string) //=====
{
    string = string.replace("^2","2");
    string = string.replace("^2","2");
    string = string.replace("^2","2");
    string = string.replace("^2","2");
    string = string.replace("^3","3");
    string = string.replace("^3","3");
    string = string.replace("^3","3");

    return(string);
}

```

```

function exp_clean(string) //===== replace ^2 with ^2
{
    string = string.replace("Â²", "²");
    string = string.replace("Â³", "³");
    string = string.replace("Â²Â³", "²³");
    string = string.replace("Â³Â²", "³²");
    string = string.replace("Â³Â²Â³", "³²³");
    return(string);
}

function display_unit(base_values,base) //===== Display results
{
    if (base) // if fundamental SI units are required
    {
        var str_display = "";
        for (p = 1; p < 8; p++) // for m, kg, s, A, K, mol, cd
        {
            if (base_values[p] == 1)
            {
                str_display = "." + all_units[0][p+2] + str_display;
            }
            if (base_values[p] > 1)
            {
                str_display = "." + all_units[0][p+2]+("^"+base_values[p]) + str_display;
            }
            if (base_values[p] == -1)
            {
                str_display = str_display + "/" + all_units[0][p+2];
            }
            if (base_values[p] < -1)
            {
                str_display = str_display + "/" + all_units[0][p+2]+("^"+Math.abs(base_values[p]));
            }
        }
        if (str_display.substring(0,1) == "/") // if first exponent is negative
        {
            str_display = "1" + str_display;
        }
    }
}

```

```

else
str_display = str_display.substring(1,str_display.length);

}

else // leave units as is

{
str_display = document.forms[0].units_out.value;

}

str_display = exp_nice(str_display);

document.forms[0].units_out.value = str_display;

document.forms[0].quantity_out.value = base_values[0];

}

function convert() //===== main function
{
var units_base_in;
var units_base_out;

if(document.forms[0].quantity_in.value == "") document.forms[0].quantity_in.value = 1;

if(document.forms[0].units_in.value == "") {document.forms[0].units_in.value = "???"; exit; }

document.forms[0].units_in.value = exp_clean(document.forms[0].units_in.value);
document.forms[0].units_out.value = exp_clean(document.forms[0].units_out.value);

units_base_in = analyze(document.forms[0].quantity_in.value, document.forms[0].units_in.value);

if(document.forms[0].units_out.value != "") // if specific units are requested for the result
{
units_base_out = analyze(1, document.forms[0].units_out.value);

if (units_base_out) // if the units are found in the database
{
if (units_base_out[1] != units_base_in[1]
|| units_base_out[2] != units_base_in[2]
|| units_base_out[3] != units_base_in[3]
|| units_base_out[4] != units_base_in[4]
|| units_base_out[5] != units_base_in[5]
|| units_base_out[6] != units_base_in[6]
|| units_base_out[7] != units_base_in[7]) // if units are not compatible
display_unit(units_base_in,1);

else // all is OK
{
}
}
}
}

```

```

units_base_in[0] = units_base_in[0] / units_base_out[0];

display_unit(units_base_in,0);

}

}

else // unit not found

display_unit(units_base_in,1);

}

else // no specific units requested

display_unit(units_base_in,1);

}

function init_form() //===== Initialization of the form

{

document.forms[0].quantity_in.value="";
document.forms[0].units_in.value="mph";
document.forms[0].quantity_out.value="";
document.forms[0].units_out.value="";

}

function list_units() //===== Displays a clickable list of units available

{

var n = 1;
var list = new Array;
while (all_units[n])
{
list[n-1] = all_units[n][1];
n = n + 1;
}
list.sort();
n = 0 ;
while (list[n])
{
document.write("<a href="#" onClick='Javascript:document.forms[0].units_in.value=document.forms[0].units_in.value+'\\""+\''");
document.write(list[n]);
document.write("\\">");
document.write(list[n]);
document.write("</a>, ");
n = n + 1;
}
}

```

```

}

//===== End of scripts

</script>

<html>
<head><title>Universal Converter</title></head>
<body>

<style>
td{font-family: Arial; font-size: 10px; text-align: center;}
.red{color: #ff0000;}
</style>

<h1>Universal Converter</h1>
<hr />

<form>
<table align='center' border='1'>
<tr>
<td>
<input type='text' size='10' name='quantity_in' align='right'>
</td><td>
<input type='text' size='15' name='units_in'>
</td><td>
<input type='button' value='convert =>' onClick='Javascript:convert()'>
</td><td>
<input type='text' size='20' name='quantity_out' align='right' bgcolor="#aaaaaa" style="background-color: #aaaaaa;">
</td><td>
<input type='text' size='15' name='units_out'>
</td>
</tr>
<tr><td>1</td><td>mph</td><td rowspan='9'>Examples<br><br>fields in black<br>are filled by user<br>fields in red<br>are the results </td><td class='red'>0.44704</td><td class='red'>m/s</td></tr>
<tr><td>1</td><td>mi/hr</td><td class='red'>0.44704</td><td class='red'>m/s</td></tr>
<tr><td>1</td><td>mi.hr^-1</td><td class='red'>0.44704</td><td class='red'>m/s</td></tr>
<tr><td>1</td><td>mph</td><td class='red'>1.609344</td><td>km/hr</td></tr>
<tr><td>9</td><td>kilo.m/hr</td><td class='red'>250</td><td>centi.m/s</td></tr>

```

```

<tr><td>1.2345e+8</td><td>mph</td><td class='red'>55187088</td><td class='red'>m/s</td></tr>
<tr><td>1</td><td>mph</td><td class='red'>1.4911649311738188e-9</td><td>c</td></tr>
<tr><td>1</td><td>cm.kg/min^2/ÅµA^2</td><td class='red'>2777.777777777777</td><td>H/mm</td></tr>
<tr><td>1</td><td>cm.kg/min^2/ÅµA^2</td><td class='red'>2777777.77777777</td><td class='red'>m.kg/sÅ²/AÅ²</td></tr>
</table>
</form>

<hr />

<b>Help:</b> Units must be separated by dots (.) or slashes (/). Space is NOT a separator. Exponents may be used with the symbol ^ and can be positive or negative.

<hr />

<script language='Javascript'>
init_form();
list_units();
</script>

<hr />

<b>About the Universal converter:</b> This Javascript converter is provided as a standalone file that can be used online or offline. It can be copied and distributed freely.

</font></body></html>

```

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