// Regular expressions are patterns // used to match portions of strings // All the code here checks itself assert(/hello/.test('hello world')); // using Edward Hieatt's JsUnit regular expression // from www.jsunit.net // 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. assert("courage".search(/our/) == 1); // 1 letter before "our" assert("courage".search(/i/) == -1); // -1 means no match // The replace method changes a matched substring assert("recieve".replace(/ie/,"ei") == "receive"); character matching one-for-one: A ... Z a ... z 0 ... 9 alphanumeric tuation \u0000 ... \uFFFF Unicode hexadecimal \x00 ...\xFF ASCII hexadecimal \00....\77 \cA\cZ \000\377 control characters ASCII Octal [\b] \t \v \f 10/ TAB VT FF CR new line CR new back NUL space \x00 \x08 Character Classes (sets of matchables) ///d/ matches any decimal digit \D \d assert(/\d/.test('9')); // same as /[0123456789]/ or /[0-9]/ assert(/[0123456789]/.test(9')); assert(/[0-9]/.test('9')); digit nondigit ///\s/ matches space, tab, terminators \S \s assert(/\S\S\s\S\S.test("to be")); // any invisible "white space" character non-space assert(/\s/.test(" ")); assert(/[\t\n\u000B\f\r]/.test(' ')); space non-///w/ is a letter, number, underscore \w \W assert(/\w\w\W\w\w\\W\w\/ .test("21-May/02")); assert(/\w/.test('X')); word nonchar word assert(/\w/.test('X'));
assert(/[0-9A-Za-z_]/.test('X')); var vowel=/[aeiouy]/;
assertEquals(2,'story'.search(vowel)); assert(!vowel.test('mfgr')); one of var nonvowel=/[^aeiouy]/; assert(nonvowel.test('our')); assert(!nonvowel.test('eye')); one not of assert(/[a-z]/.test('Story')); assert('\$8ea'.replace(/[0-9]/,'X') == '\$Xea'); assert(/[^a-zA-Z]/.test('Yes?')); characters inside class [brackets] A...Z a...z 0...9 1 alphanumeric punc-\x0000 ... \xFFFF Unicode hexadecimal \0 -- \7 \x00 --- \xFF ASCII hexadecimal \00**!...!\77** \case=\cz \\000 ---\377 control characters ASCII Octal
 NUL back volume
 TAB volume
 VT FF CR new line volume

 \x00
 \x00 digit nondigit space nonspace char word
// use digit, word or space in outside class [brackets] digit assert(/^[\d\s\(\)\-\+\/]*\$/.test('(+20) 2 0900 0700')); assert(/^[\d\s\(\)\-\+\/]*\$/.test('714/921-5424')); assert(!/^[\d\s\(\)\-\+\/]*\$/.test('1-866-4MORTAL')); // Slashed and Confused: Backspace: /[\b]/ or '\b' Not: /\b/ (word boundary)
Vertical tab: /\v/ or /[\v]/ Not: '\v' (same as 'v')