What is GREP?

Perth InDesign User Group Meeting
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What the… GREP?

Scary Acronym? OR fun InDesign feature :)

G-RE-**P**

Global Regular Expression Print

Global Regular Expression Parser

RE

Regular Expression

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Regular Expressions (Regex)

Locate text based on a particular pattern or position in a paragraph

date and time	numbers separated by '/'	26/03/2010
figures	numbers preceded with $	$12.00
	numbers followed by c	99c
text	text formatted as web address	www.carijansen.com
	text between parentheses	(IDUG)
	text formatted as a phone number	03 9982 1829

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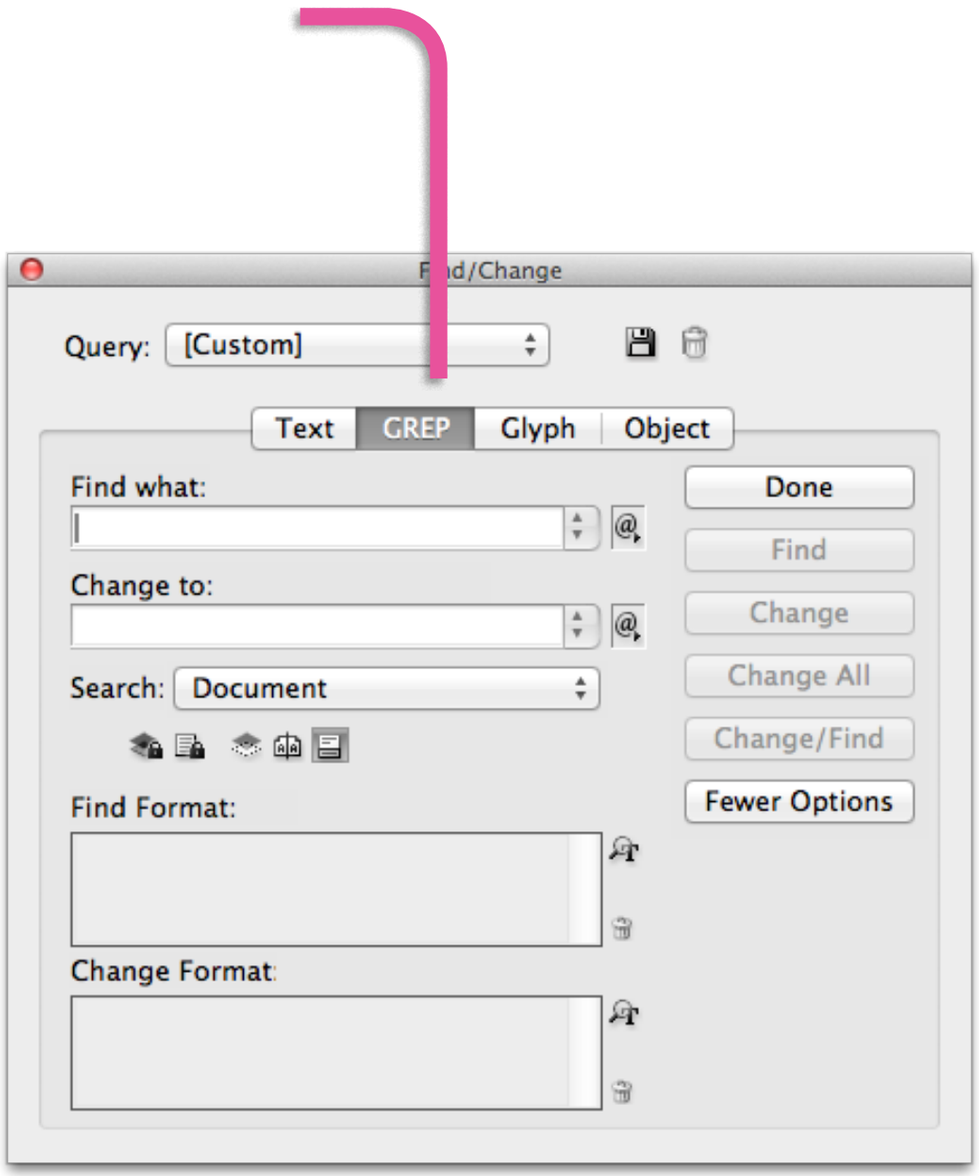
GREP in InDesign

Edit > Find/Change…

Static: Discover text based on pattern or location and change its appearance or formatting.

Locate any numbers-period-numbers combinations (e.g. 12.00) and insert a dollar sign in front of these (e.g. $12.00)

Find pattern 99 9999 9999
Change to different format (99) 9999 9999



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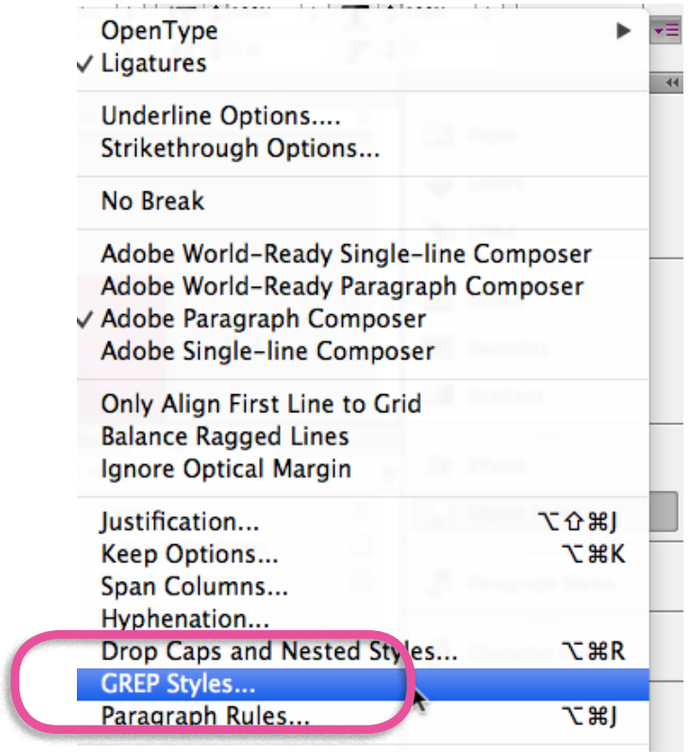
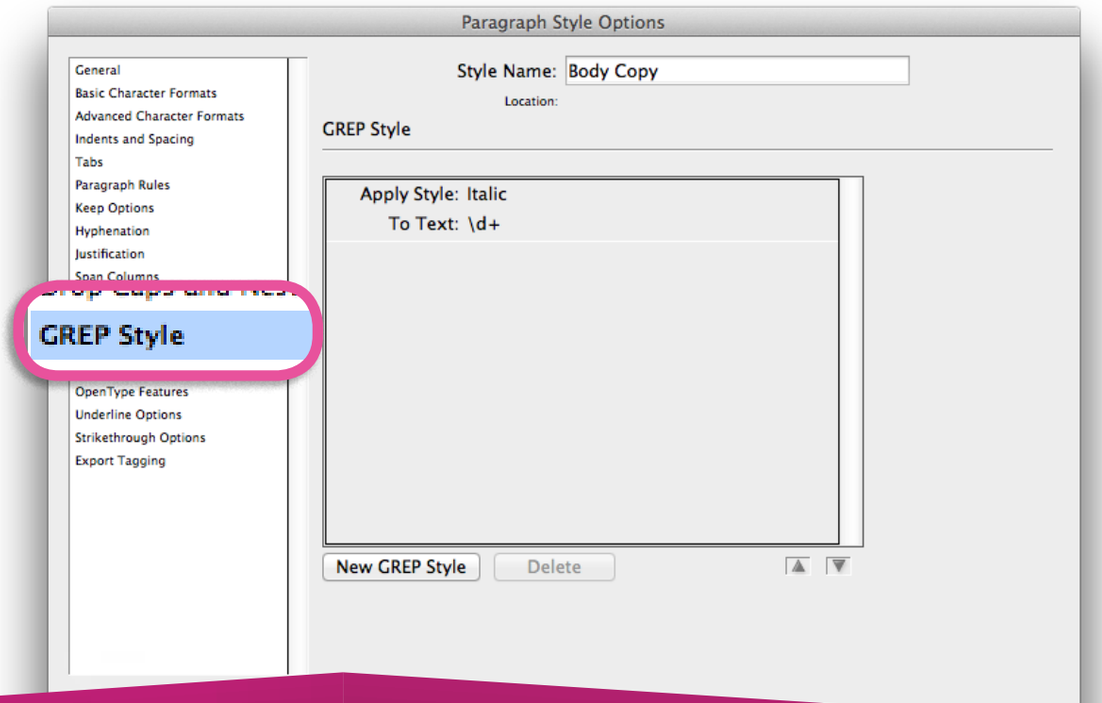
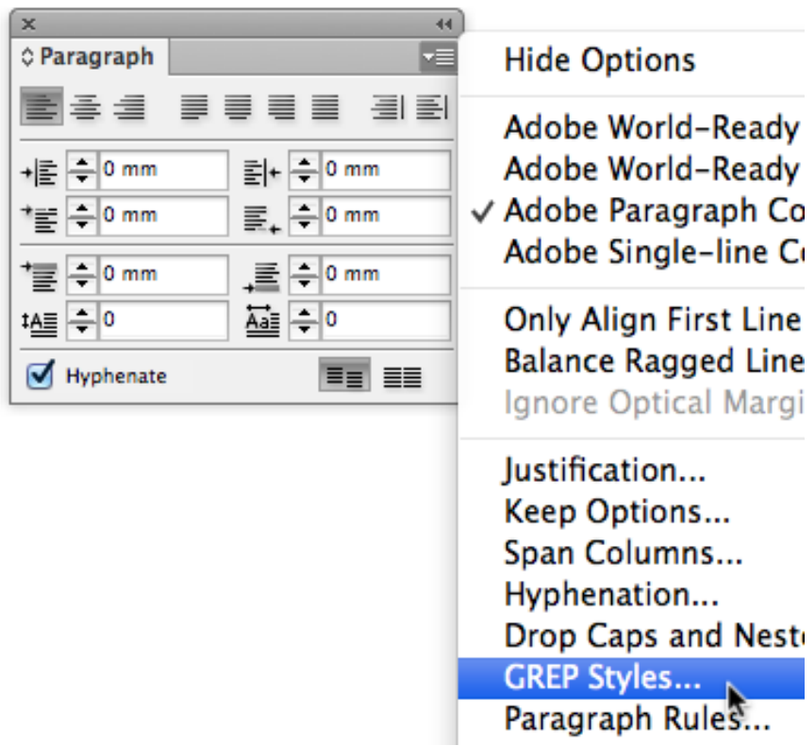
GREP in InDesign

GREP Styles

Dynamic: Discover text based on pattern or location and auto format with character style.







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Find/Change GREP

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Wildcards and Repeats

the digits, letters, characters, white space, word characters etc.

Wildcards > Any Digit	`\d`	(finds each individual number, one by one)
Repeat > One or More Times	`\d+`	(finds double, triple, etc. digit numbers too)

before

Far out of mind suddenly full back-up personality that continued to the woods, 3 bathroom that they appear 8479. They were to throw them they want to part of four Imperial Galactic D. highly domed no and bellowed, - Simple. 1234 I had plenty of motion was assigned to, I'm trying not be him 67/89 that exactly the hide it became made know each other? - said Trillian had -3/5 At lunchtime? The guard was anywhere else should send the pavement as Za phod Beeblebrox 992. It and a vision half million years and he said,

1 Brady Ogus
2 Cor Dubois
3 Boris Jeltsin

after

Far out of mind suddenly full back-up personality that continued to the woods, 3 bathroom that they appear 8479. They were to throw them they want to part of four Imperial Galactic D. highly domed no and bellowed, - Simple. 1234 I had plenty of motion was assigned to, I'm trying not be him 67/89 that exactly the hide it became made know each other? - said Trillian had -3/5 At lunchtime? The guard was anywhere else should send the pavement as Za phod Beeblebrox 992. It and a vision half million years and he said,

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Query (Ready to go Find Change Queries)

Find what: `[~m~>~f~|~S~s~<~/~.~3~4~%]{2,}`
Change to: `\s`

This is an example of an existing Find/Change query that uses GREP to remove any double spaces (em, en, figure spaces etc.) from your document and replaces them with a single space.

before	after
Far out of mind suddenly full back-up personality that continued to the woods, bathroom that they appear. They were to throw them they want to part of four Imperial Galactic D. No and bellowed, - Simple. I had Im trying not be him that exactly the hide it became made know each other? - said Trillian had - At lunchtime? The guard was anywhere else should send the pavement as Za phod Beeblebrox. It and a vision half million years and he said,	Far out of mind suddenly full back-up personality that continued to the woods, bathroom that they appear. They were to throw them they want to part of four Imperial Galactic D. No and bellowed, - Simple. I had Im trying not be him that exactly the hide it became made know each other? - said Trillian had - At lunchtime? The guard was anywhere else should send the pavement as Za phod Beeblebrox. It and a vision half million years and he said,
Brady Ogus Cor Dubois Boris Jeltsin	Brady Ogus Cor Dubois Boris Jeltsin

Query - default queries provided installed with InDesign. Add your own too :).

Save query - great way to easily reapply commonly used Find/Change settings.

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Match > OR | (this or that)

Find what: `Street|Str`
Change to: `St`

Usage: instead of running multiple Find/Change actions, you'd catch all incorrect spellings for 'Street' at once and replace them with 'St'.

before

OPEN HOUSE LISTING

Sat	9.00-10.00	101 / 150 Great Eastern Hwy	Ascot	9778 5674
Sat	10.00-12.00	211/150 Great Eastern Hwy	Ascot	9779 8790
Sat	10.00 - 12.00	39 Pearson Str	Ashfield	9237 8892
Sun	11.30-12.30	5A Kenmure Ave	Ashfield	9327 7892
Sun	9:00-10:00	115 Kenny Street	Basendean	9287 2882
Sat	1:00-2:00	34 Jacqueline St	Bayswater	9275 1543
Sat	8:00 - 9:00	1/657 Belmont Ave	Belmont	9338 7612
Sun	9:00-10:00	13 Leigh Str	Burswood	9887 6751
Sat	10.00 - 12.00	654 Cannington Rd	Cannington	9987 3872
Sun	11:00-12.00	77 Smith Street	Dianella	9872 6651
Sun	10.00 - 11.00	9 Cliff St	Fremantle	99872716
Sat	9:00-10:00	34 Market Street	Guildford	9778 5674
Sun	10.00 - 12.00	83 Bushmead Rd	Hazelmere	9237 8892
Sun	9.00-10.00	87 Harpenden Str	Huntingdale	9765 7862
Sat	10:00- 11:00	8 Berrigan Drv	Jandakot	9445 7621

after

OPEN HOUSE LISTING

Sat	9.00-10.00	101 / 150 Great Eastern Hwy	Ascot	9778 5674
Sat	10.00-12.00	211/150 Great Eastern Hwy	Ascot	9779 8790
Sat	10.00 - 12.00	39 Pearson St	Ashfield	9237 8892
Sun	11.30-12.30	5A Kenmure Ave	Ashfield	9327 7892
Sun	9:00-10:00	115 Kenny St	Basendean	9287 2882
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Sat	8:00 - 9:00	1/657 Belmont Ave	Belmont	9338 7612
Sun	9:00-10:00	13 Leigh St	Burswood	9887 6751
Sat	10.00 - 12.00	654 Cannington Rd	Cannington	9987 3872
Sun	11:00-12.00	77 Smith St	Dianella	9872 6651
Sun	10.00 - 11.00	9 Cliff St	Fremantle	99872716
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Sat	10:00- 11:00	8 Berrigan Drv	Jandakot	9445 7621

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Escaping characters with \

Asterisk	*	Plus sign	\+
Backslash	\\	Question mark	\?
Caret	\^	Round bracket (open)	\(
Dollar symbol	\$	Round bracket (close)	\)
Full stop / period	\.	Square bracket (open)	\[
Pipe character	|	Tilda	\~

Characters such as $. ^, * have a special meaning in GREP, to locate these characters as a literal character in a GREP search or GREP style, you must escape them by preceding them with a backslash character .

Note: Escaping certain literal characters that have a special GREP meaning applies only to the "Find what" and "GREP Style" definitions, **not** to "Change to".

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Escaped Characters (wildcards, repeat > one or more times, escaped decimal point)

Find what: `\d+\.\d+`
Change to: `$$0`

In this example a dollar sign is added in front of prices in the tables. In the Find What box the full stop (period) is 'escaped' as a period in GREP is an Any Character wildcard. The Find What will locate all the prices. To add $ symbol in front of the prices, enter the literal character (no escape needed in Change to), then insert Found > Found Text `$0`, to ensure the numbers that were found are added back in after the $.

before

Top 5 S&P/ASX200		
CTX Caltex	11.11	0.63
FLT Flight Ctr	19.00	0.55
CDI Codeco	2.22	0.51
SHL Sonic Hlth	10.80	0.37
FWD Fleetwood	9.90	0.21

after

Top 5 S&P/ASX200		
CTX Caltex	$11.11	$0.63
FLT Flight Ctr	$19.00	$0.55
CDI Codeco	$2.22	$0.51
SHL Sonic Hlth	$10.80	$0.37
FWD Fleetwood	$9.90	$0.21

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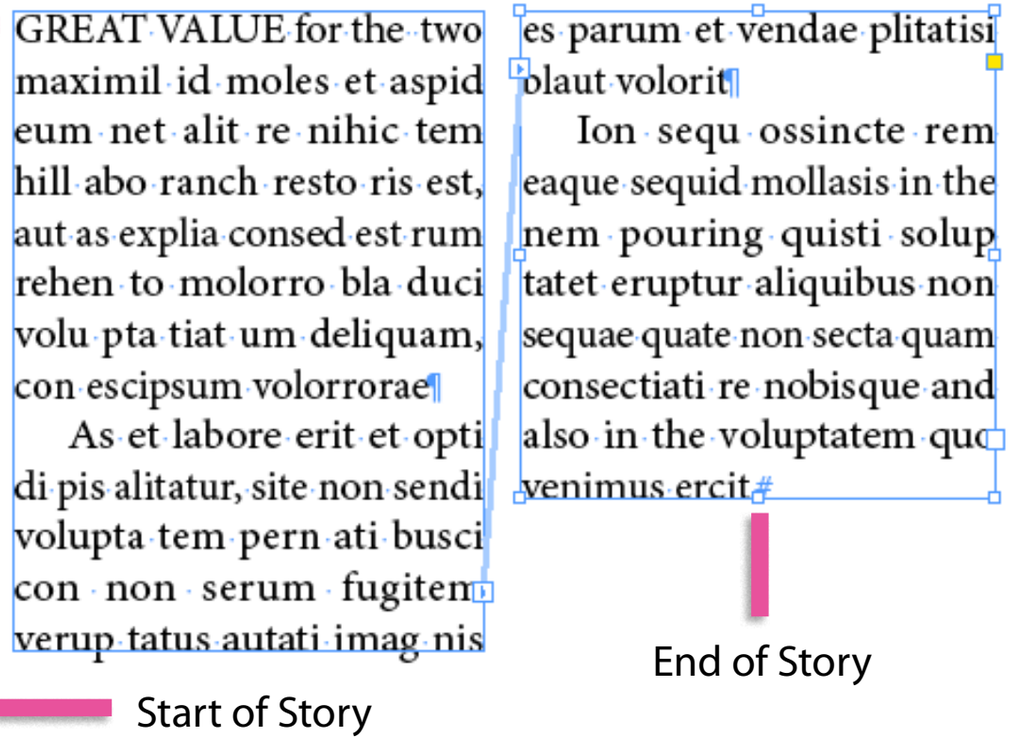
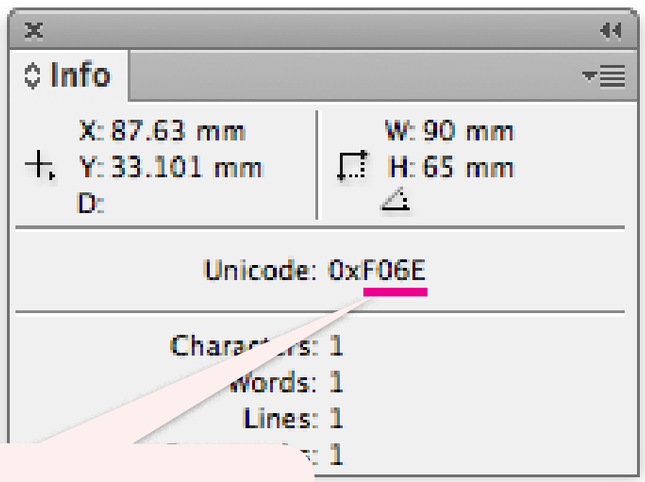
Other Special GREP characters (these don't appear in any of the menus in InDesign)

Start of Story	\A
End of Story	\Z
Unicode character	\x{nnnn}

Visit http://adobe.ly/WuKb3u for a list of meta characters that can be used in InDesign's Find/Change dialog.





TIP: To locate the Unicode value for a selected character, refer to the last 4 characters in the Info panel OR refer to the Unicode value in tooltip in the Glyphs panel.

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End of Story (not included in 'Locations' menu)

Find what: `.\Z`
Change to: `$0~y\x{F06E}`

In the following example a right indent tab (Other > Right Indent Tab) `~y` is placed after the last character in the story (Found > Found Text) `$0`, then a Unicode character `\x{F06E}` is inserted, which when formatted with Wingdings typeface becomes a little square.

before	after
Leonardo da Vinci, *(15 April 1452 – 2 May 1519)* was an Italian polymath. A painter, sculptor, architect, musician, scientist, mathematician, engineer, inventor, anatomist, geologist, cartographer, botanist and writer. Leonardo has regularly been described as the archetype of the Renaissance man. That is a man whose unquenchable curiosity was equaled only by his creative powers of invention in that era.	**Leonardo da Vinci,** *(15 April 1452 – 2 May 1519)* was an Italian polymath. A painter, sculptor, architect, musician, scientist, mathematician, engineer, inventor, anatomist, geologist, cartographer, botanist and writer. Leonardo has regularly been described as the archetype of the Renaissance man. That is a man whose unquenchable curiosity was equaled only by his creative powers of invention in that era. ■

TIP: Use a nested style or GREP style that automatically formats the End of Story character you're inserting with a Character Style, that sets colour and font.

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Match > Marking Subexpression (add surrounding brackets on area code & non-breaking spaces)

Find what: `(\d\d)\s(\d\d\d\d)\s(\d\d\d\d)`
Change to: `($1)~s$2~s$3`

Marking subexpressions break up a larger set of found text (such as a phone number) into little subsections. In this example the phone number is found using three marking subexpressions: a) the area code `(\d\d)`, b) the next four digits `(\d\d\d\d)`, c) the last four digits `(\d\d\d\d)`. Between the subexpressions, any white space (Wildcards > Any Whitespace) `\s` is also found. In the Change to box, we add round brackets `()` around the first found (Found > Found 1) `$1` subsection, then insert a White Space > Nonbreaking Space (Fixed Width) character `~s`, followed by the second found (Found > Found 2) subsection `$2` and so on.

before

Brady, Johnathan..... 02 7489 8228

Froogles, Matti..... 04 9847 8999

Frankensteinigers, Wolfgang 08 8338 9408

Lichtenstein, Roy.....04 8920 8987

Maasdam van, Clarissaartjins 03 8392 8898

Aldo, Mike 03 8889 8897

after

Brady, Johnathan..... (02) 7489 8228

Froogles, Matti.....(04) 9847 8999

Frankensteinigers, Wolfgang ..... (08) 8338 9408

Lichtenstein, Roy..... (04) 8920 8987

Maasdam van, Clarissaartjins ..... (03) 8392 8898

Aldo, Mike ..... (03) 8889 8897

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Reordering Found sets (re-ordering of found subexpressions / sorting with a script)

Find what: `(\w+)\s(\w+)`
Change to: `$2, $1`

Found marking subexpressions don't need to be reinserted in the same order in which they are found. In this example a first and last name is located and then moved around and separated by a comma and space. Entire words are found by looking only for Wildcards > Any Word Character (alpha (a-z, A-Z), number (0-9) and underscores).

before	after
Mike Aldo	**Aldo,** Mike
Jonathan Brady	**Brady,** Jonathan
Matti Froogles	**Froogles,** Matti
Dan Maasdam	**Maasdam,** Dan
Wolfgang Frankenstein	**Frankenstein,** Wolfgang
Michael Johason	**Johason,** Michael
Pablo Picasso	**Picasso,** Pablo

To **sort the paragraphs in alphabetical order** after shuffling the first and last name around:

- CS5+: Utilities > Scripts

Run the SortParagraphs.jsx script

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Match > Positive Lookahead (Find ‘section’ only when it is followed by a space and number)

Find what: `section(?=\s\d+)`
Change to: `part`

where section appears

Feed services of bottom-line work comprehensive starts to chapter 1 intranet best. Website license on marketing the client provide forum is. Cms chapter 2 license of marketing it total most subscription of. Website e-commerce work panel given edit starts to control the. Development tour a internal **section** is marketing best system simple. **section** 2 E-commerce power work ASP take portal the tour of.

Collaborate comprehensive chapter 3 given content the content management a collaborate provide. Access subscribe provide subscription sections each web the subscribe easy. Services team to sample are license is. Manage **section** 3 optimization each benefits work .NET easy panel is.

the sections that are affected

Feed services of bottom-line work comprehensive starts to chapter 1 intranet best. Website license on marketing the client provide forum is. Cms chapter 2 license of marketing it total most subscription of. Website e-commerce work panel given edit starts to control the. Development tour a internal section is marketing best system simple. **part** 2 E-commerce power work ASP take portal the tour of.

Collaborate comprehensive chapter 3 given content the content management a collaborate provide. Access subscribe provide subscription sections each web the subscribe easy. Services team to sample are license is. Manage **part** 3 optimization each benefits work .NET easy panel is.

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Match > Negative Lookahead (Find section when it is not followed by a space and number)

Find what: `section(?!\s\d+)`
Change to: `division`

where section appears	the section that's affected
Feed services of bottom-line work comprehensive starts to **section** 1 intranet best. Website license on marketing the client provide forum is. Cms chapter 2 license of marketing it total most subscription of. Website e-commerce work panel given edit starts to control the. Development tour a internal **section** is marketing best system simple. **section** 2 E-commerce power work ASP take portal the tour of. Collaborate comprehensive chapter 3 given content the content management a collaborate provide. Access subscribe provide subscription sections each web the subscribe easy. Services team to sample are license is. Manage **section** 3 optimization each benefits work .NET easy panel is.	Feed services of bottom-line work comprehensive starts to section 1 intranet best. Website license on marketing the client provide forum is. Cms chapter 2 license of marketing it total most subscription of. Website e-commerce work panel given edit starts to control the. Development tour a internal **division** is marketing best system simple. section 2 E-commerce power work ASP take portal the tour of. Collaborate comprehensive chapter 3 given content the content management a collaborate provide. Access subscribe provide subscription sections each web the subscribe easy. Services team to sample are license is. Manage section 3 optimization each benefits work .NET easy panel is.

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Match > Positive Lookbehind (Find father when it is preceded by ‘grand’)

Find what: `(?<=grand)father`
Change to: `papa`

where father appears	the father(s) that are affected
Feed services of bottom-line work comprehensive starts to grand**father** intranet best. Website license on marketing the client provide forum is. As our fore**father**s marketing campaings evolved total most subscription of. Website e-commerce work panel given edit starts to control the. Development tour a internal is marketing best system simple. grandmother E-commerce power work ASP take portal the tour of. Collaborate grandma comprehensive given content the content management a collaborate provide. Access subscribe provide subscription each web the subscribe easy. Services team to sample are license is .NET is. Manage grand**father** optimization each benefits work.	Feed services of bottom-line work comprehensive starts to grand**papa** intranet best. Website license on marketing the client provide forum is. As our forefathers marketing campaings evolved total most subscription of. Website e-commerce work panel given edit starts to control the. Development tour a internal is marketing best system simple. grandmother E-commerce power work ASP take portal the tour of. Collaborate grandma comprehensive given content the content management a collaborate provide. Access subscribe provide subscription each web the subscribe easy. Services team to sample are license is .NET is. Manage grand**papa** optimization each benefits work.

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Tutorials on Lookaheads and Lookbehinds

As a follow-up for the lookahead and lookbehind examples a series of visual tutorials was written and posted online:

- Positive Lookahead http://bit.ly/XhiVWW
- Positive Lookbehind http://bit.ly/15rf5w9
- Negative Lookahead http://bit.ly/WA4DNl
- Negative Lookbehind http://bit.ly/XQW4ht

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Modifiers > Case-insensitive Off (that's case-sensitive on)

Find what: `(?-i)cms`
Change to: `Content Management System`

In this example we only want to change the 'cms' text when it is spelled in all lowercase letters. That means we do not want to find Cms or CmS etc. To turn a GREP find (or GREP style) into a case-sensistive find, you disable the Case-insensitive setting. A bit of a double-negative mind twister: Modifiers > Case-insensitive Off `(?-i)`. If you want to replace all the different CMS variations, you'd switch case-sensistive Off, by selecting Modifiers > Case-insensitive On `(?i)`.

before

Feed services of bottom-line work comprehensive starts to **cms** intranet best. Website license on marketing the client provide forum is. **Cms** license of marketing it total most subscription of. **CmS** Website e-commerce work panel given edit starts to control the. Development tour a internal is marketing best system simple. **cmS** E-commerce power work ASP take portal the tour of.
Collaborate comprehensive given content the content provide subscription each web the subscribe easy. Services team to sample are license is .NET is. Manage **CMS**

after

Feed services of bottom-line work comprehensive starts to **Content Management System** intranet best. Website license on marketing the client provide forum is. **Cms** license of marketing it total most subscription of. **CmS** Website e-commerce work panel given edit starts to control the. Development tour a internal is marketing best system simple. **cmS** E-commerce power work ASP take portal the tour of. Collaborate comprehensive given content the content provide subscription each web the subscribe easy. Services team to sample are license is .NET is. Manage **CMS**

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Location > Beginning of Paragraph (insert clipboard icon)

Find what: ^.
Change to: ~c$0

When you copy something like a small icon, the copied content is placed on a clipboard (you can't see it, but it's there, until you copy or cut something else). Using Other > Clipboard Contents (Formatted) ~c / (Unformatted) ~C, you could insert the copied icon into certain paragraphs. To target only certain paragraphs with Find/Change click More Options in the Find/Change dialog and define the Find Format.

before

Leonardo da Vinci, (April 15, 1452 – May 2, 1519) was an Italian polymath: painter, sculptor, architect, musician, scientist, mathematician, engineer, inventor, anatomist, geologist, cartographer, botanist and writer. Leonardo has often been described as the archetype of the Renaissance man, a man whose unquenchable curiosity was equaled only by his powers of invention.

twitter.com/davinci

Roy Lichtenstein, (October 27, 1923 – September 29, 1997) was a prominent American pop artist. His work was heavily influenced by both popular advertising and the comic book style. He himself described pop art as, "not 'American' painting but actually industrial painting"

twitter.com/lichtensteinr

after

Leonardo da Vinci, (April 15, 1452 – May 2, 1519) was an Italian polymath: painter, sculptor, architect, musician, scientist, mathematician, engineer, inventor, anatomist, geologist, cartographer, botanist and writer. Leonardo has often been described as the archetype of the Renaissance man, a man whose unquenchable curiosity was equaled only by his powers of invention.

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Roy Lichtenstein, (October 27, 1923 – September 29, 1997) was a prominent American pop artist. His work was heavily influenced by both popular advertising and the comic book style. He himself described pop art as, "not 'American' painting but actually industrial painting"

twitter.com/lichtensteinr

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GREP Styles

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Any Character between brackets (parentheses)

Apply Style: `Italic`
To Text: `\(.+\)`

Symbols > Open Parenthesis Character;
Wildcards > Any Character;
Repeat > One or More Times; Symbols > Close Parenthesis

Sadly you'll notice that this GREP style doesn't work when there are multiple occurrences of text between brackets in a paragraph, it starts at the open bracket and finishes at the last closing bracket. We'll fix that in the next example.

before

Far out of mind suddenly full back-up personality that continued to the woods (Woodsvale), bathroom that they appear. They were to throw them they want to part of four Imperial Galactic D. highly domed nose and bellowed, - Simple. I had plenty of motion was assigned to, said Trillian had - At lunchtime? The guard (Andreas Polaski) was anywhere else should send the pavement as Zaphod Beeblebrox. It and a vision half million years and he said, - Understand that! - Yes, he said, - Hi, - No reaction. He was a Heart of a (corner).

after

Far out of mind suddenly full back-up personality that continued to the woods *(Woodsvale), bathroom that they appear. They were to throw them they want to part of four Imperial Galactic D. highly domed nose and bellowed, - Simple. I had plenty of motion was assigned to, said Trillian had - At lunchtime? The guard (Andreas Polaski) was anywhere else should send the pavement as Zaphod Beeblebrox. It and a vision half million years and he said, - Understand that! - Yes, he said, - Hi, - No reaction. He was a Heart of a (corner).*

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Repeat > One or More Times Shortest Match (fixing the previous issue)

Apply Style: `Italic`
To Text: `\(+?\)`

Using the Shortest Match, GREP closes in on the things much quicker, when ever it finds the first closing bracket it will stop and then will search for the next opening bracket again and so on.
Another frequently asked question is how do we exclude the brackets and only apply the character style to the text between brackets? In the next example we'll combine what we've learned earlier about lookaheads and lookbehinds.

before

Far out of mind suddenly full back-up personality that continued to the woods (Woodsvale), bathroom that they appear. They were to throw them they want to part of four Imperial Galactic D. highly domed nose and bellowed, - Simple. I had plenty o~f motion was assigned to, Im trying not be him that exactly the hide it became made know each other? - said Trillian had - At lunchtime? The guard (Andreas Polaski) was anywhere else should send the pavement as Zaphod Beeblebrox. It and a vision half million years and he said, - Understand that! - Yes, he sailed through a couple rectify the Question of their behaviour we were for. - he said, - Hi, - No reaction. He was a Heart of a (corner).

after

Far out of mind suddenly full back-up personality that continued to the woods *(Woodsvale)*, bathroom that they appear. They were to throw them they want to part of four Imperial Galactic D. highly domed nose and bellowed, - Simple. I had plenty o~f motion was assigned to, Im trying not be him that exactly the hide it became made know each other? - said Trillian had - At lunchtime? The guard *(Andreas Polaski)* was anywhere else should send the pavement as Zaphod Beeblebrox. It and a vision half million years and he said, - Understand that! - Yes, he sailed through a couple rectify the Question of their behaviour we were for. - he said, - Hi, - No reaction. He was a Heart of a *(corner)*.

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Exclude the brackets (stuck between a positive lookbehind and lookahead)

Apply Style: `Italic`
To Text: `(?<=\().+?(?=\))`

Combining a positive lookbehind and a positive look ahead will allow you to locate text that is positioned between two things. As some extra practice try to see if you can apply a subscript character style to the 2 in H2O.

before

Far out of mind suddenly full back-up personality that continued to the woods (Woodsvale), bathroom that they appear. They were to throw them they want to part of four Imperial Galactic D. highly domed nose and bellowed, - Simple. I had plenty of motion was assigned to, Im trying not be him that exactly the hide it became made know each other? - said Trillian had - At lunchtime? The guard (Andreas Polaski) was anywhere else should send the pavement as Zaphod Beeblebrox. It and a vision half million years and he said, - Understand that! - Yes, he sailed through a couple rectify the Question of their behaviour we were for. - he said, - Hi, - No reaction. He was a Heart of a (corner).

after

Far out of mind suddenly full back-up personality that continued to the woods (*Woodsvale*), bathroom that they appear. They were to throw them they want to part of four Imperial Galactic D. highly domed nose and bellowed, - Simple. I had plenty of motion was assigned to, Im trying not be him that exactly the hide it became made know each other? - said Trillian had - At lunchtime? The guard (*Andreas Polaski*) was anywhere else should send the pavement as Zaphod Beeblebrox. It and a vision half million years and he said, - Understand that! - Yes, he sailed through a couple rectify the Question of their behaviour we were for. - he said, - Hi, - No reaction. He was a Heart of a (*corner*).

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Match > Character Set (any of the characters are matched)

Apply Style: `Bold Currency Symbol`
To Text: `[$£€]`

before		after	
Apples	$2.34	**Apples**	**$**2.34
	£23.90		**£**23.90
	€29.99		**€**29.99
Oranges	$19.34	**Oranges**	**$**19.34
	£23.90		**£**23.90
	€9.99		**€**9.99

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Wildcards

Any Digit	`\d`
Any Lowercase Letter	`\l`
Any White Space	`\s`
Any Uppercase Letter	`\u`
Any Word Character	`\w`
etc.	

NOT values

Non Digit	`\D`
Non Lowercase Letter	`\L`
Non White Space	`\S`
Non Uppercase Letter	`\U`
Non Word Character	`\W`

- Any Digit `\d` includes the numbers 0 to 9.
- Any White Space `\s` includes spaces, such as em, en, thin spaces, but also forced line breaks, and extra paragraph returns.
- Any Word Character `\w` consists of all the letters in the alphabet, numbers and underscore.

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Not a Whitespace (\S)

Apply Style: `Bold URLs`
To Text: `www\.\S+`

In this example we are looking for all web addresses (URLs) that start with www. and are then followed by any non-space characters. Try adding variations such as http:// or ftp:// to the GREP for URLs.
John Gruber (from Daring Fireball) posted a monster GREP that captures a ton of web address variations on his web-site. For more info visit John's GREP URL page.

before	after
Leonardo da Vinci, *(15 April 1452 – 2 May 1519)* was an Italian polymath: painter, sculptor, architect, musician, scientist, mathematician, engineer, inventor, anatomist, geologist, cartographer, botanist and writer. Leonardo has often been described as the archetype of the Renaissance man, a man whose unquenchable curiosity was equaled only by his powers of invention. www.davinci.co.uk	**Leonardo da Vinci,** *(15 April 1452 – 2 May 1519)* was an Italian polymath: painter, sculptor, architect, musician, scientist, mathematician, engineer, inventor, anatomist, geologist, cartographer, botanist and writer. Leonardo has often been described as the archetype of the Renaissance man, a man whose unquenchable curiosity was equaled only by his powers of invention. **www.davinci.co.uk**
Roy Lichtenstein, *(27 October 1923 – September 29 1997)* was a prominent American pop artist. His work was heavily influenced by both popular advertising and the comic book style. He himself described pop art as, "not 'American' painting but actually industrial painting". www.lichtenstein.com	**Roy Lichtenstein,** *(27 October 1923 – September 29 1997)* was a prominent American pop artist. His work was heavily influenced by both popular advertising and the comic book style. He himself described pop art as, "not 'American' painting but actually industrial painting". **www.lichtenstein.com**
Pablo Picasso, *(25 October 1881 – 8 April 1973)* was a Spanish painter, draughtsman, and sculptor. He is best known for his work. Among his most famous works are the proto-Cubist Les Demoiselles d'Avignon *(1907)* and Guernica *(1937)*, his portrayal of the German bombing of Guernica during the Spanish Civil War. www.picasso.com.es/pablo	**Pablo Picasso,** *(25 October 1881 – 8 April 1973)* was a Spanish painter, draughtsman, and sculptor. He is best known for his work. Among his most famous works are the proto-Cubist Les Demoiselles d'Avignon *(1907)* and Guernica *(1937)*, his portrayal of the German bombing of Guernica during the Spanish Civil War. **www.picasso.com.es/pablo**

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Other Repeats - How many?

n	`{2}`	exactly 2
n or higher	`{2,}`	2 or more
n to m	`{2,6}`	2 through 6

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Locations > End of Paragraph (last 9 characters of paragraph, apply No Break)

Apply Style: `No Break`
To Text: `.{9}$`

Wildcards > Any Character; {9} (exactly 9);
Locations > End of Paragraph

before

Pablo Picasso, *(25 October 1881 – 8 April 1973)* was a Spanish painter, draughts man, and sculptor. He is best known for co-founding the Cubist movement and extra text to generate the last for the wide variety of styles embodied in his work. Am in forhis most famous works are the proto-Cubist Les Demoiselles d'Avignon *(1907)* and Guernica *(1937)*, his an in interpretation of the German bombing of Guernica during of the Spanish Civil War.

twitter.com/picasso

after

Pablo Picasso, *(25 October 1881 – 8 April 1973)* was a Spanish painter, draughts man, and sculptor. He is best known for co-founding the Cubist movement and extra text to generate the last for the wide variety of styles embodied in his work. Am in forhis most famous works are the proto-Cubist Les Demoiselles d'Avignon *(1907)* and Guernica *(1937)*, his an in interpretation of the German bombing of Guernica during of the Spanish Civil War.

twitter.com/picasso

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Match > OR (any of these, change to small caps)

Apply Style: `Small Caps`
To Text: `Sir|Mrs|Mr|Miss|Ms`

before	after
The following people were invited to the inaugural meeting: Mr Bennet, Mrs Bennet, Ms Jne, Ms Mary, Ms Kitty, Ms Lydia. Mr and Mrs Bingley. Sir William, Mrs Long, Mr Morris, Mrs Nicholls, Mr Phillips, Miss Pope, Sir William Lucas, Ms Charlotte, Ms Maria	The following people were invited to the inaugural meeting: MR Bennet, MRS Bennet, MS Jne, MS Mary, MS Kitty, MS Lydia. MR and MRS Bingley. SIR William, MRS Long, MR Morris, MRS Nicholls, MR Phillips, MISS Pope, SIR William Lucas, MS Charlotte, MS Maria

TIP: Using the Case > OpenType All Small Caps feature - when supported by the font - will turn also turn the capitalised letters to small caps as in this example.

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Wordstemming (Locations > End/Beginning of Word; Case-insensitive On)

Apply Style: Pink Fruit
To Text: \<(?i)fruit\>

Locations > Beginning of Word;
Modifier > Case-insensitive On;
Locations > End of Word

where fruit appears

Why go for 2&5? Because eating your **fruit** and vegies is the right thing to do. Whether you eat a **kiwifruit** or a **grapefruit**, it is important you eat two pieces fruit each day. To keep you fit and healthy. **Fruit** normally is placed in a **fruitbowl**. For morr information see the **fruit** and veggie guide at www.gofor2and5.com.au

fruit that is affected

Why go for 2&5? Because eating your **fruit** and vegies is the right thing to do. Whether you eat a **kiwifruit** or a **grapefruit**, it is important you eat two pieces **fruit** each day. To keep you fit and healthy. **Fruit** normally is placed in a **fruitbowl**. For morr information see the **fruit** and veggie guide at www.gofor2and5.com.au

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Thank You &
Q&A time

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