

Building Usage Profiles Using Deep Neural Nets

Domenic Curro, Konstantinos G. Derpanis, Andriy V. Miransky



```
function calcWidth() {
    var wW = 0;
    if (typeof window.innerWidth == 'number') {
        wW = window.innerWidth;
    } else if (document.documentElement.clientWidth > 0) {
        wW = document.documentElement.clientWidth;
    } else if (document.body.clientWidth > 0) {
        wW = document.body.clientWidth;
    }
    if (sH = document.documentElement.clientHeight > 0) {
        var wH = window.innerHeight || sH;
        var sw = !document.all && (sH - wH);
    }
}
```



Absorption and drug action : Particle size and surface area influence the drug absorption and subsequently the therapeutic action. Higher the dissolution, faster the absorption. Hence, quicker and greater is the drug action.

Physical stability : Particle size influences the physical stability of suspensions and emulsions. Smaller the size of particles, better the physical stability of the dosage form owing to Brownian movement of the particles in the dispersion.

Dose uniformity : Good flow properties of granules and powders are important in the manufacture of tablets and capsules. The distribution of particles should be uniform in terms of its number and weight. At the same time, the flow of granules should be uniform in order to ensure precise weight of the tablet and drug content.

Comment 6-1. Physical stability of a suspension depends on the surface area of particles. True or false.
Justify.

Page: 3 | 0:04 / 1:31

Up next

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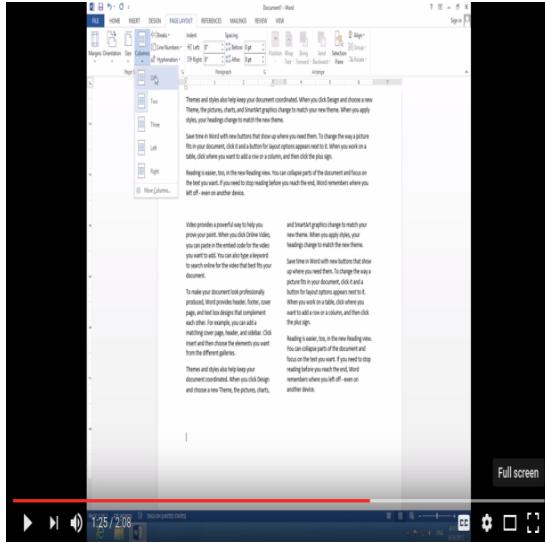
••• More

35,656 views

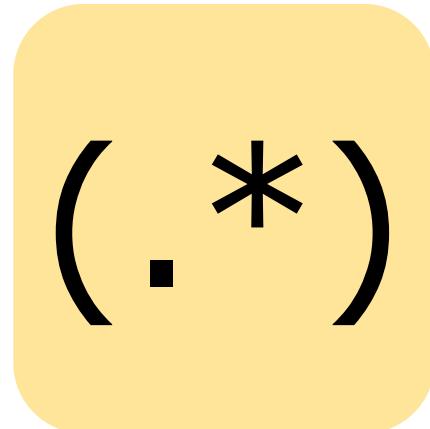
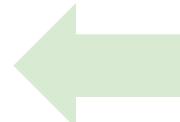
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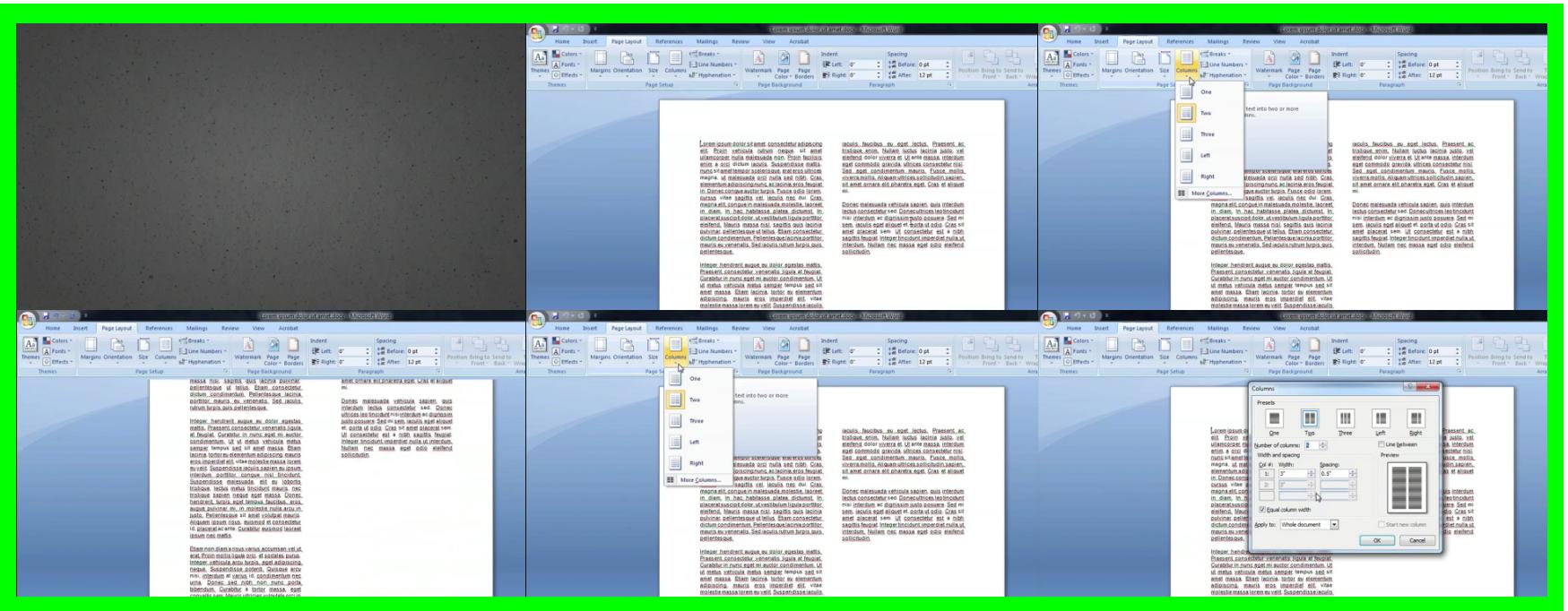
A large pile of discarded floppy disks, mostly black and grey, with some blue and white ones interspersed. They are piled haphazardly, filling the frame.

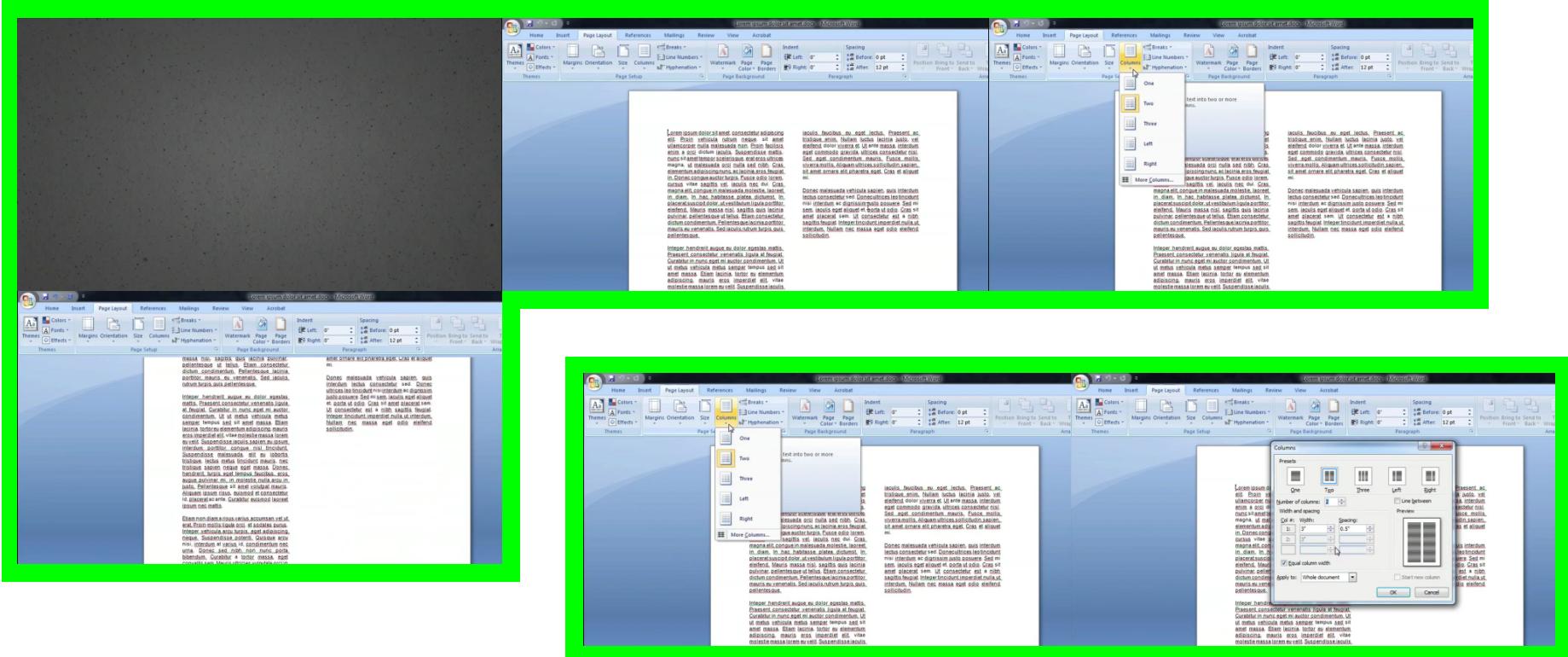
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Usage Profile









118

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293

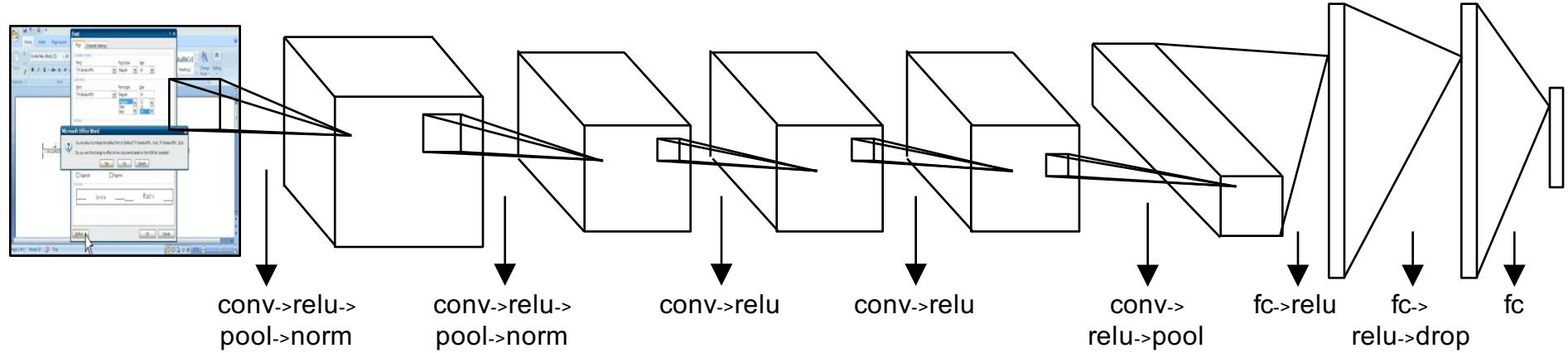
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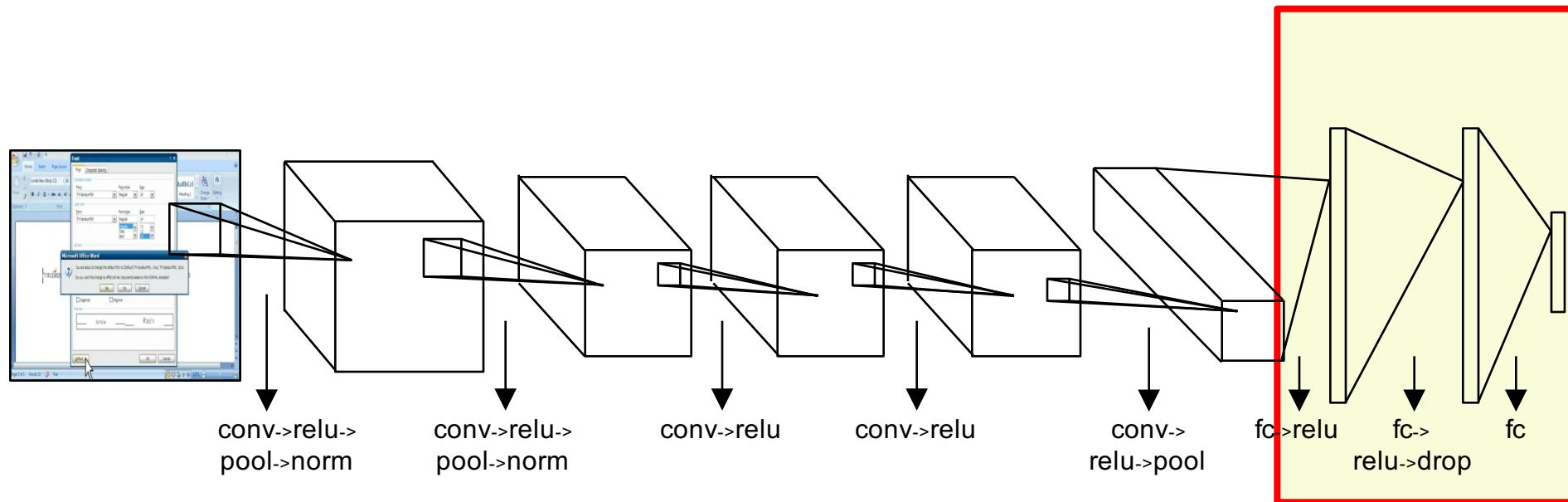
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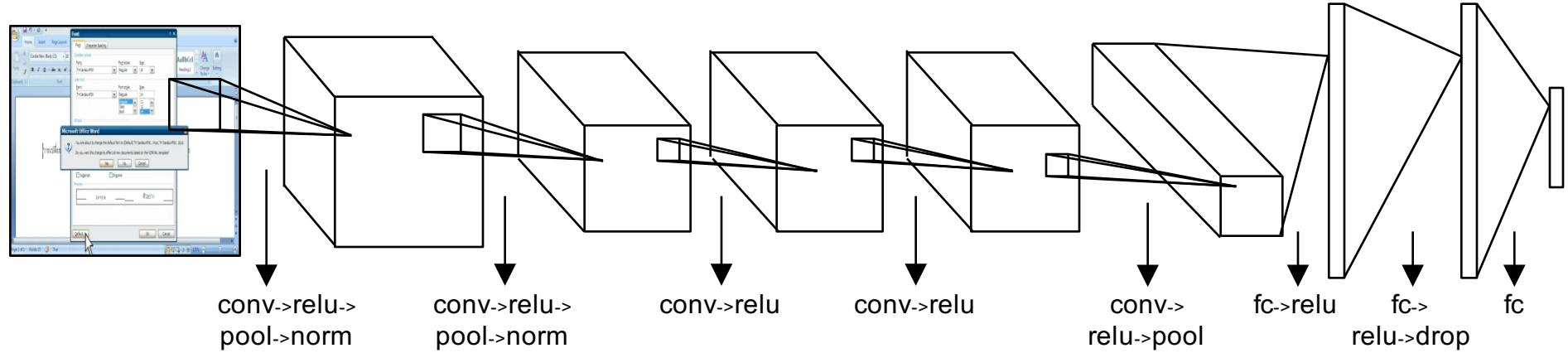
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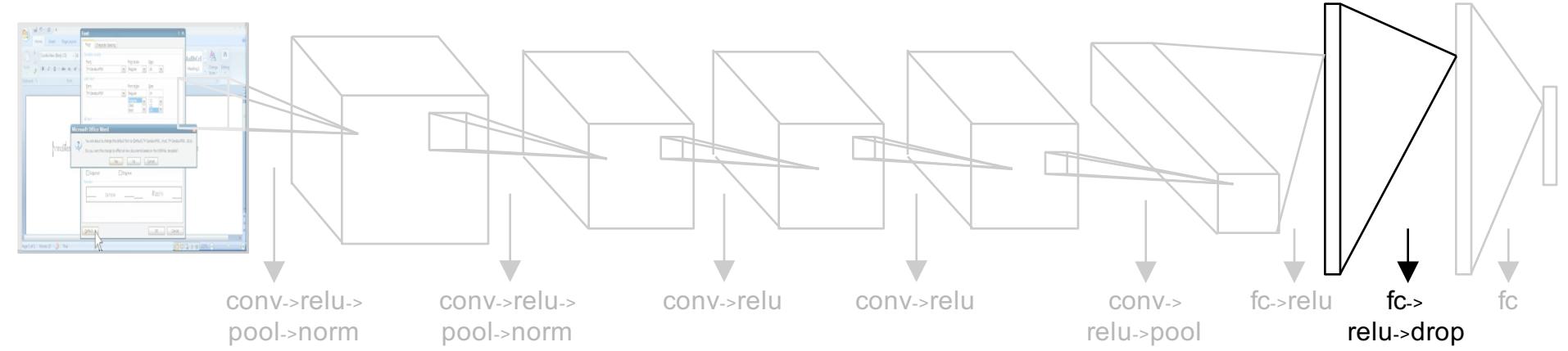
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page number drop down background



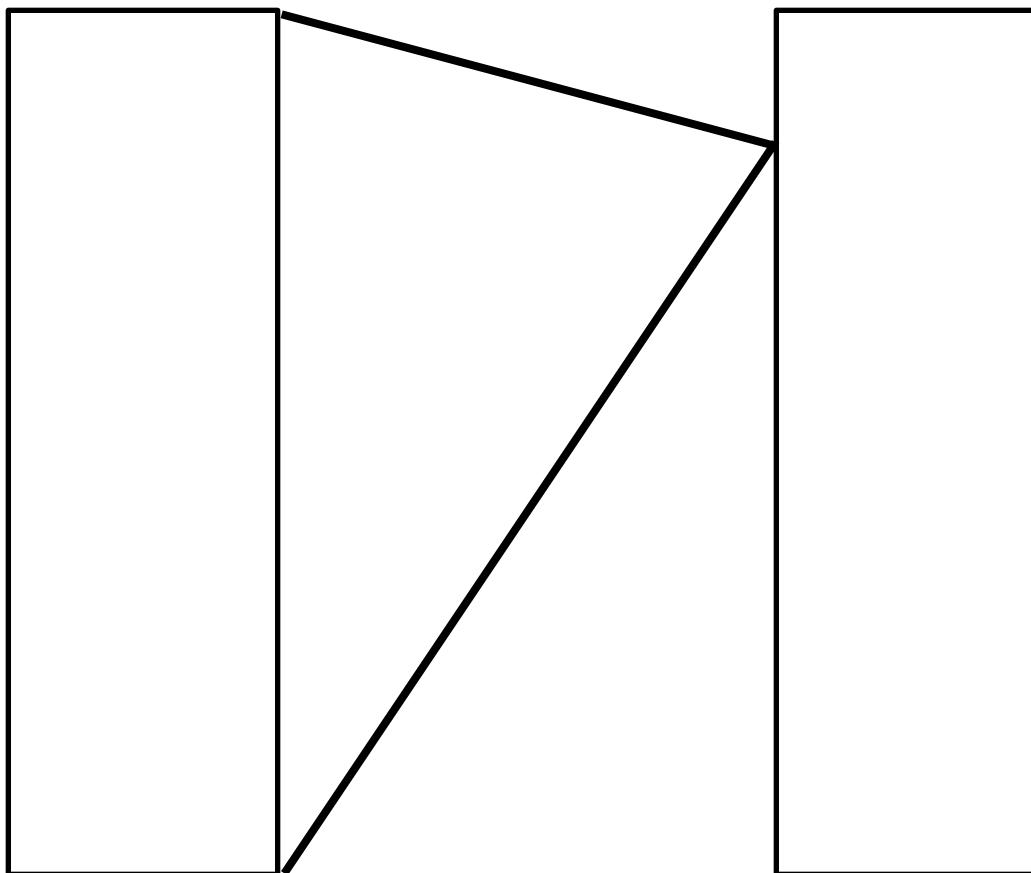




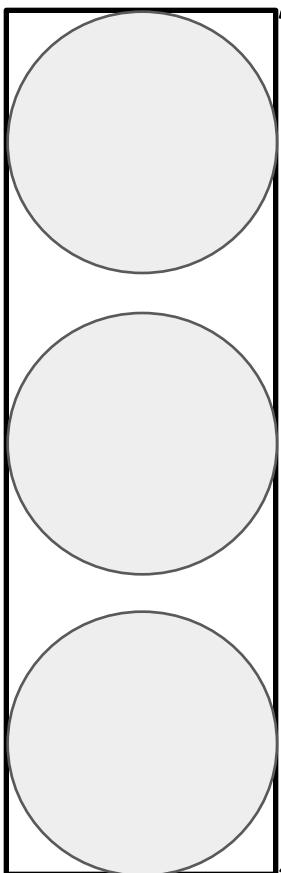


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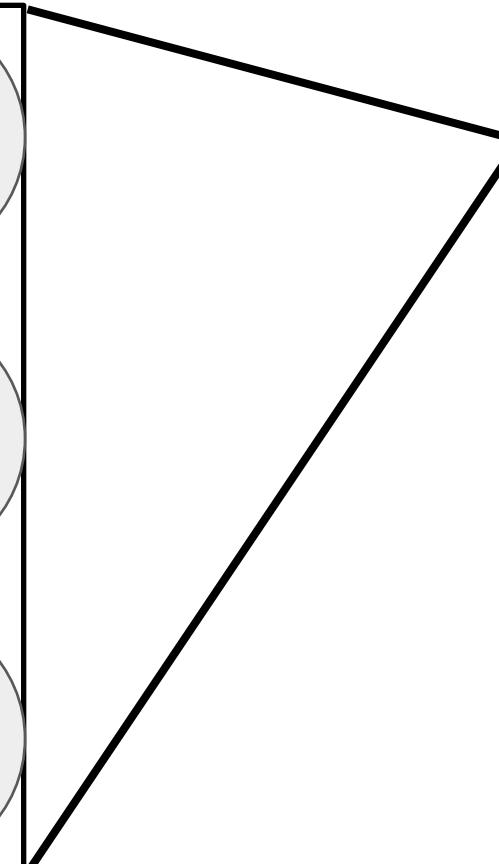
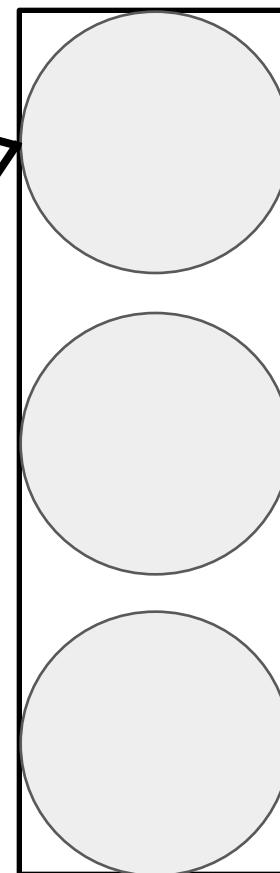
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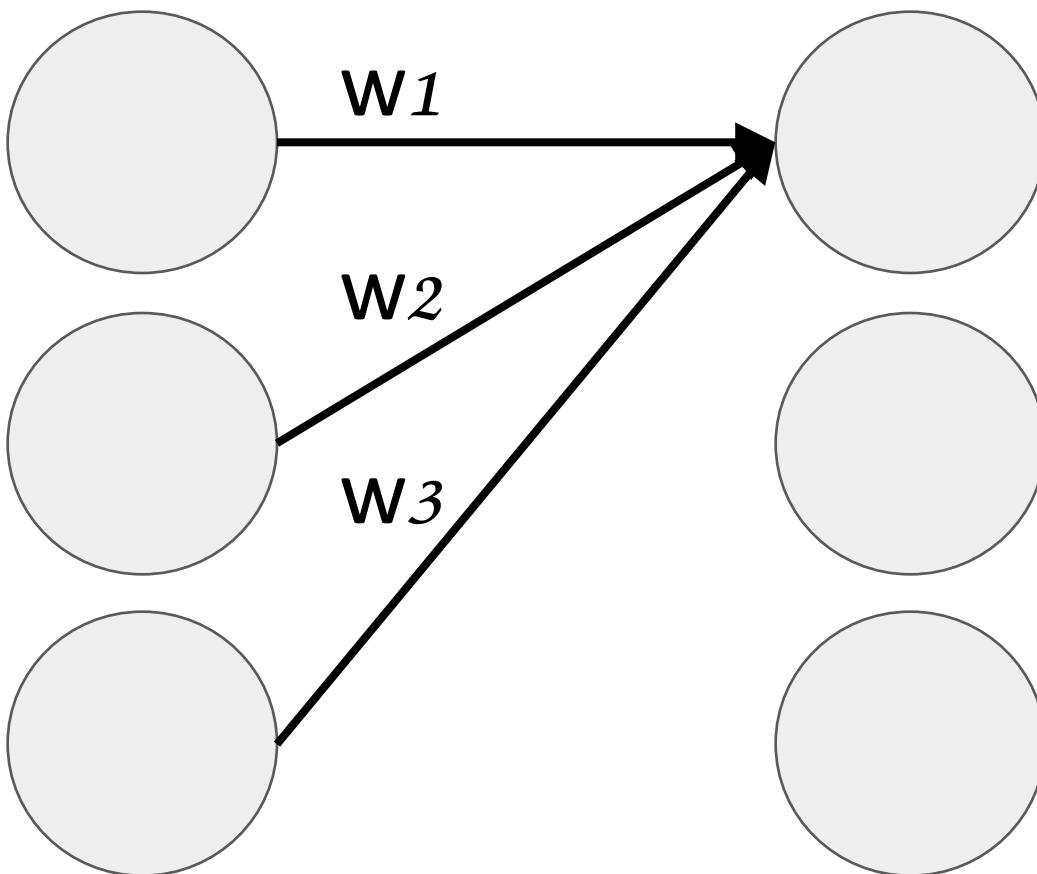


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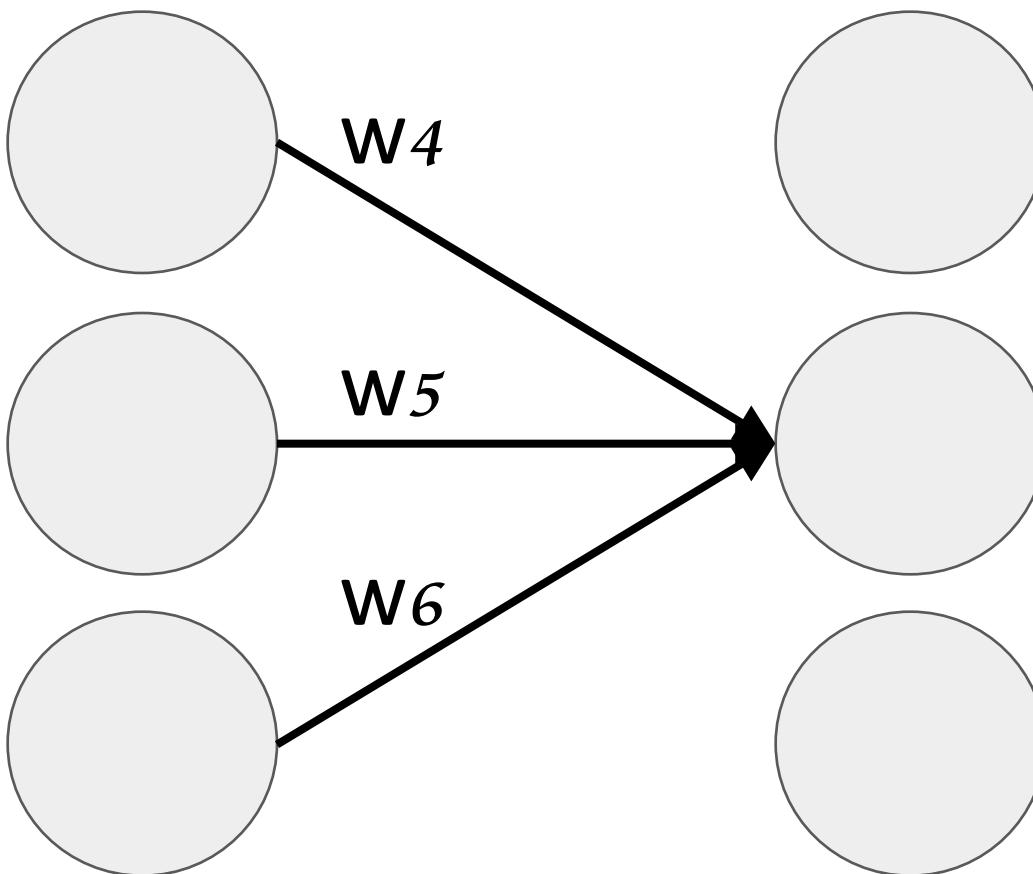
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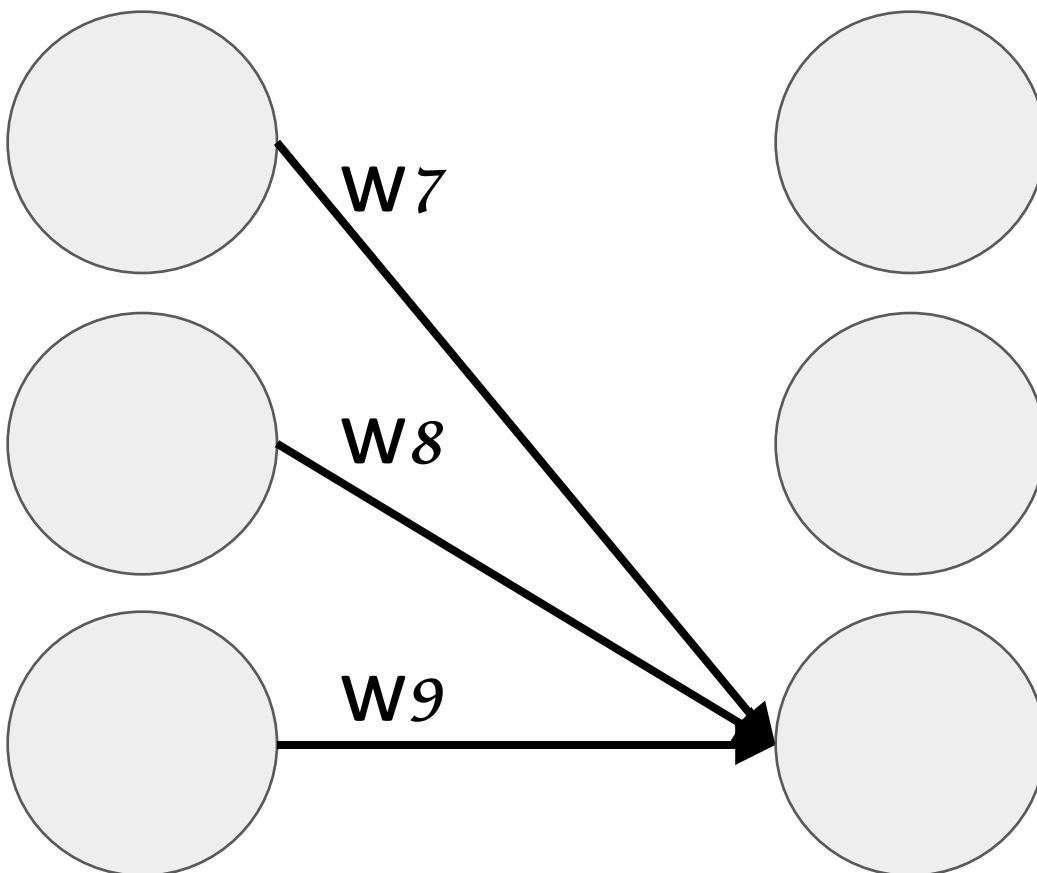
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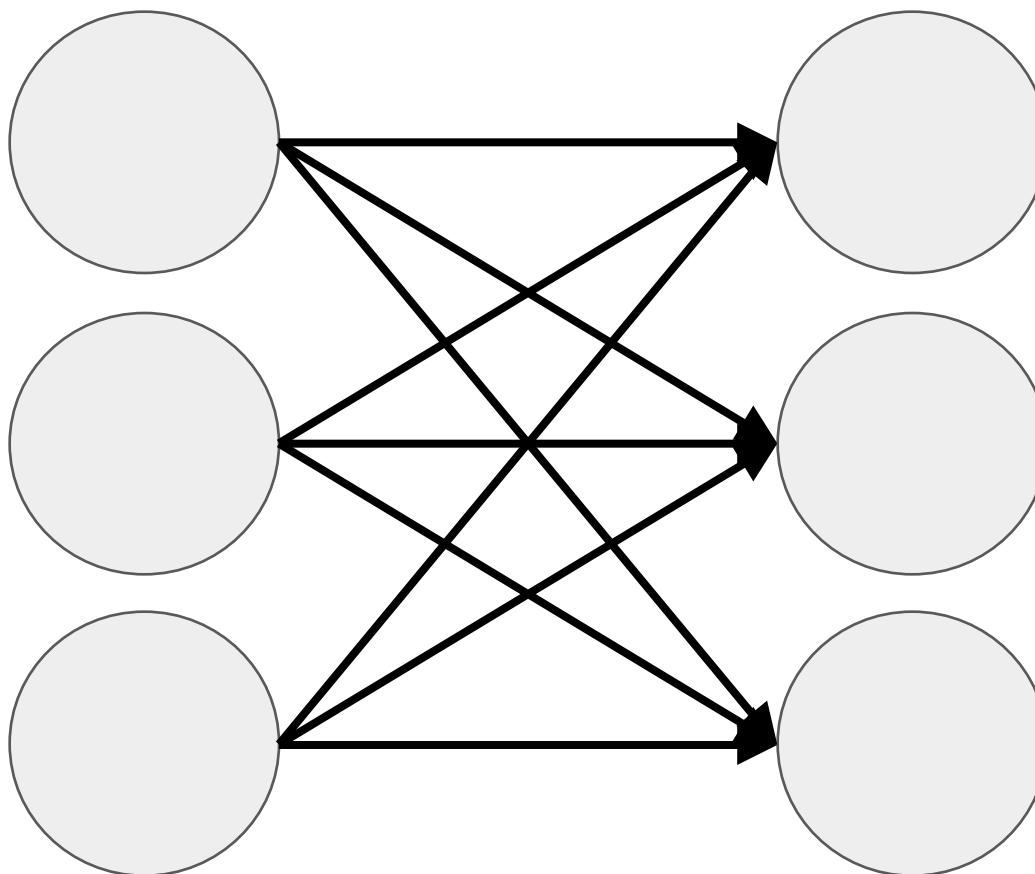
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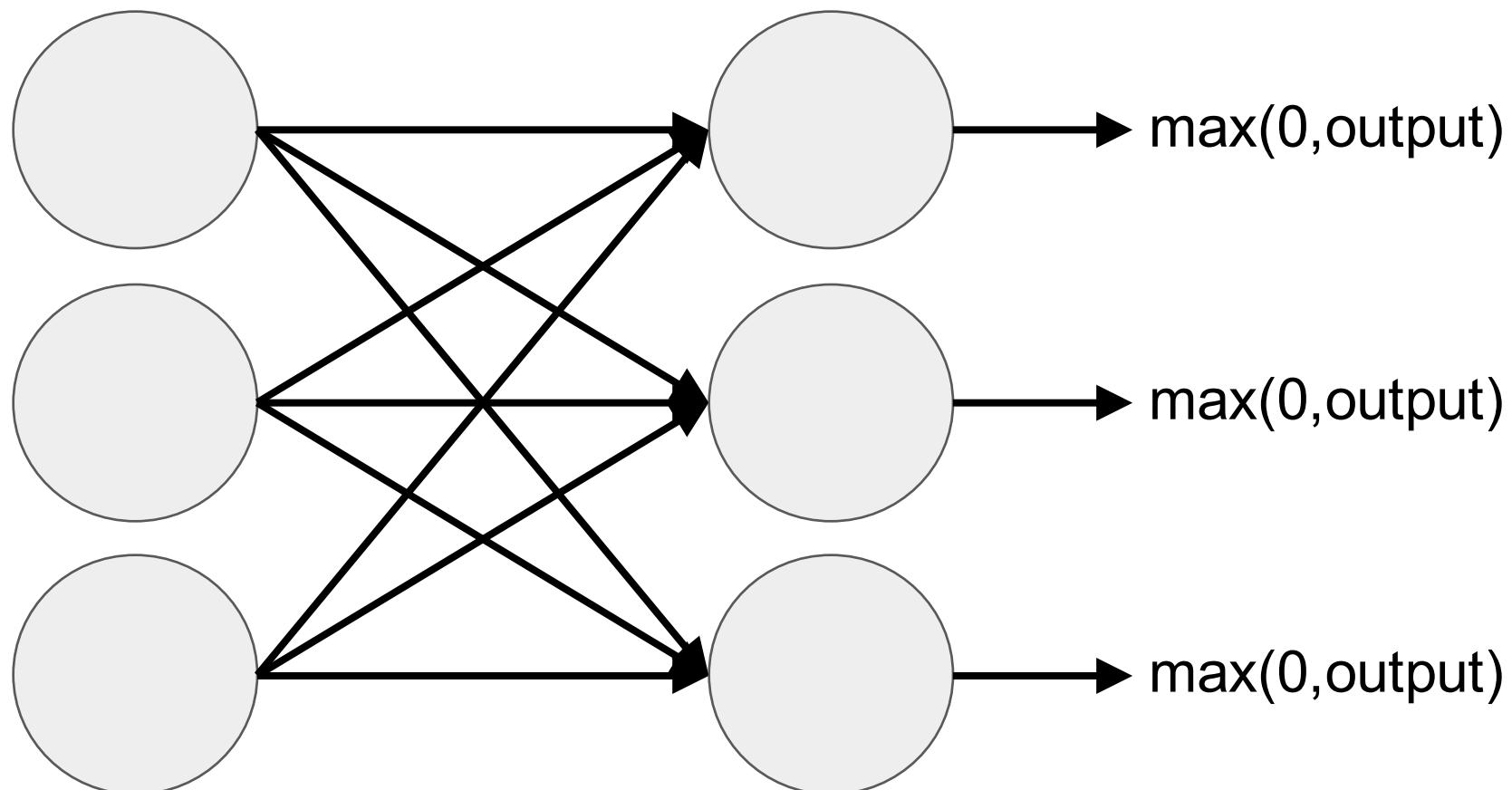
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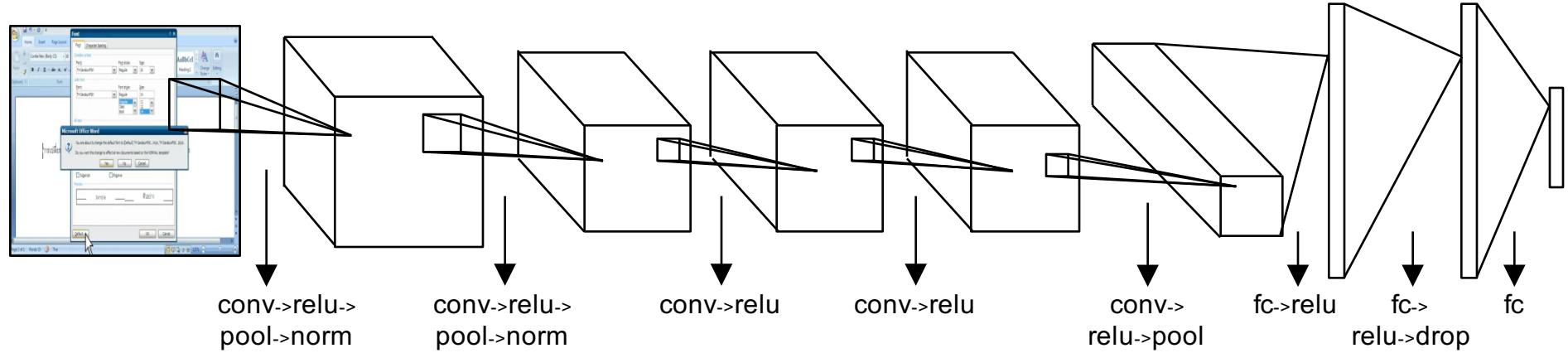


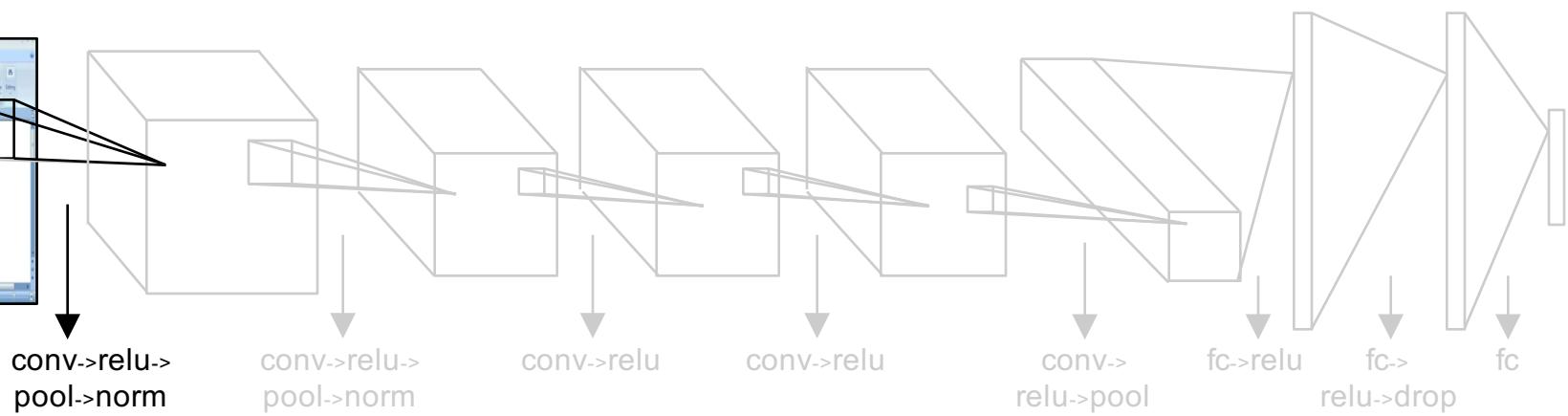
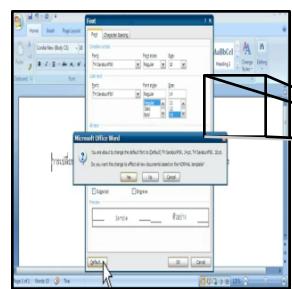
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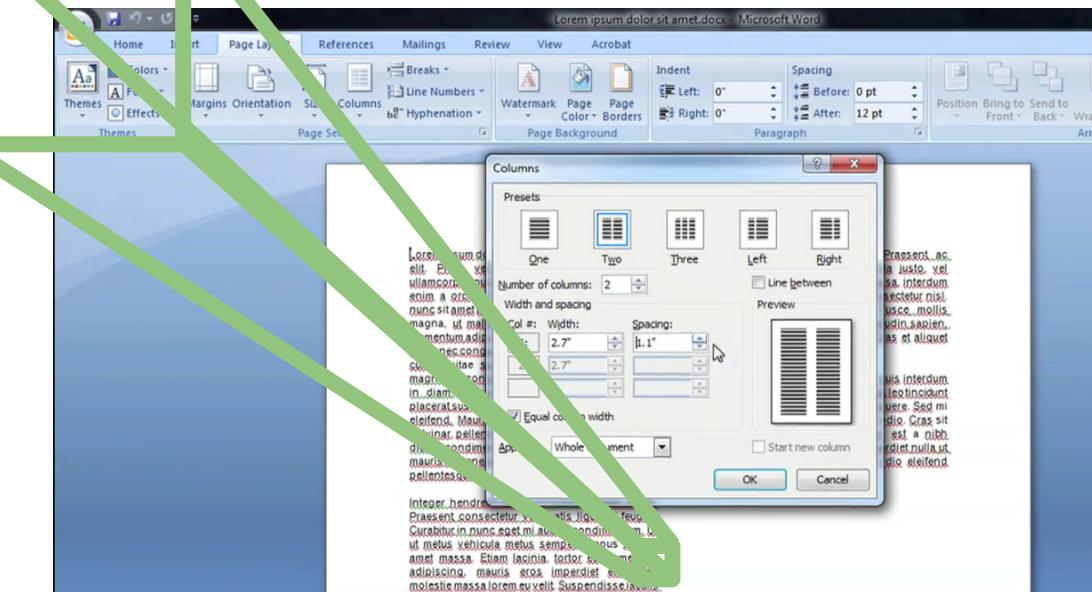
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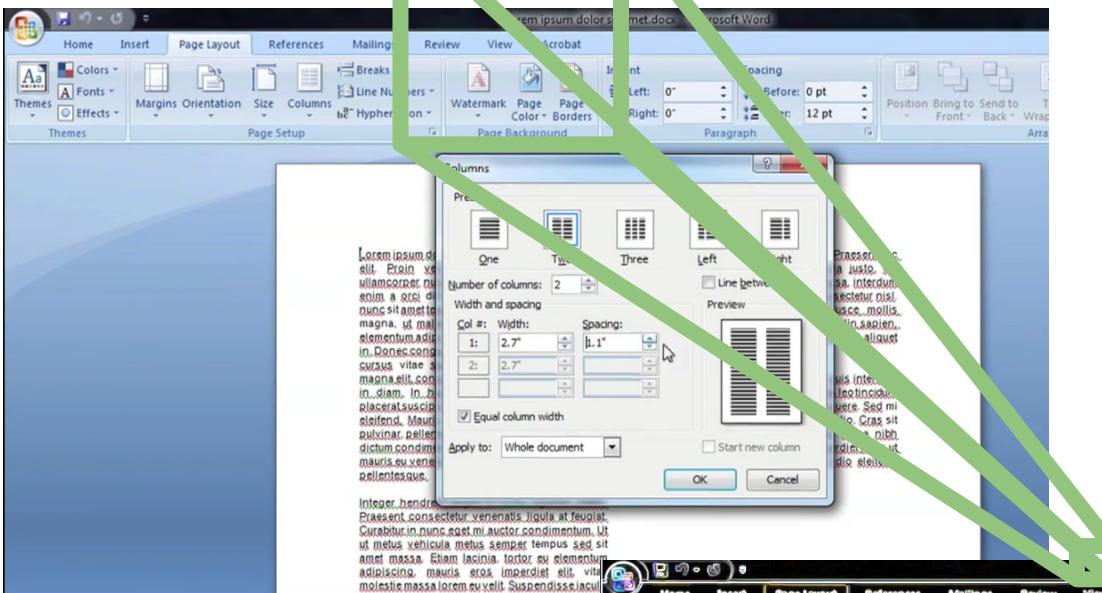
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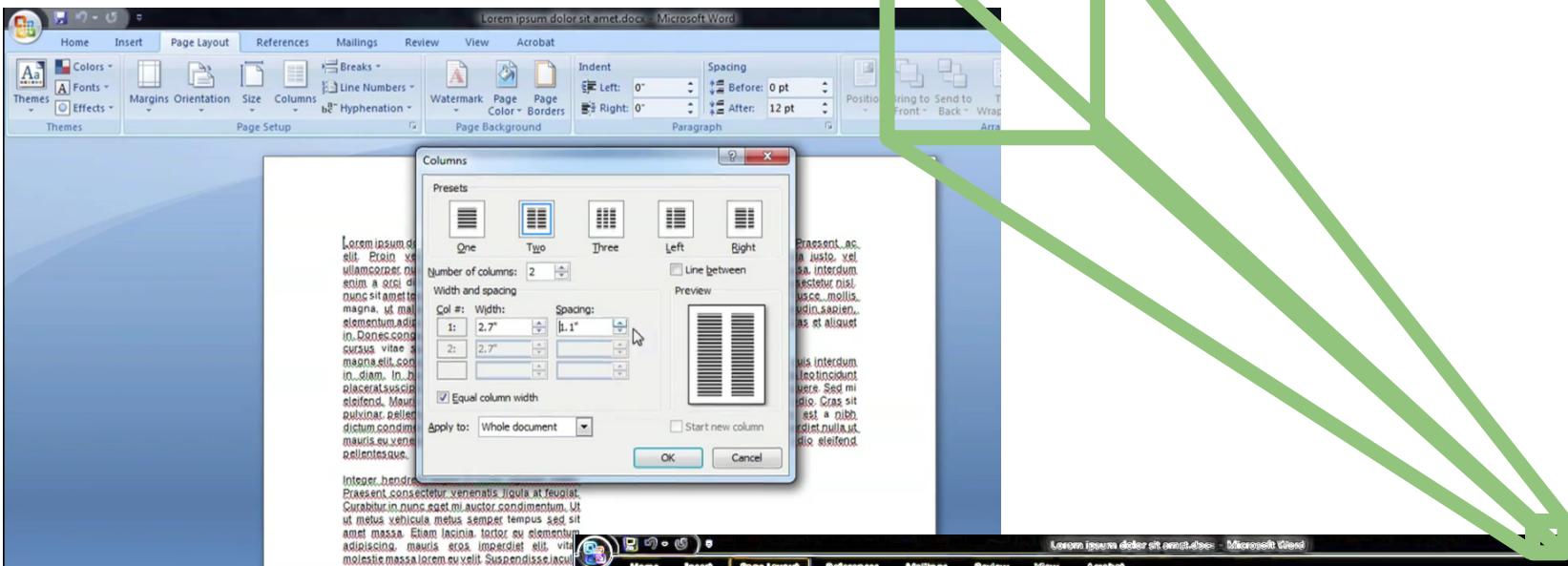


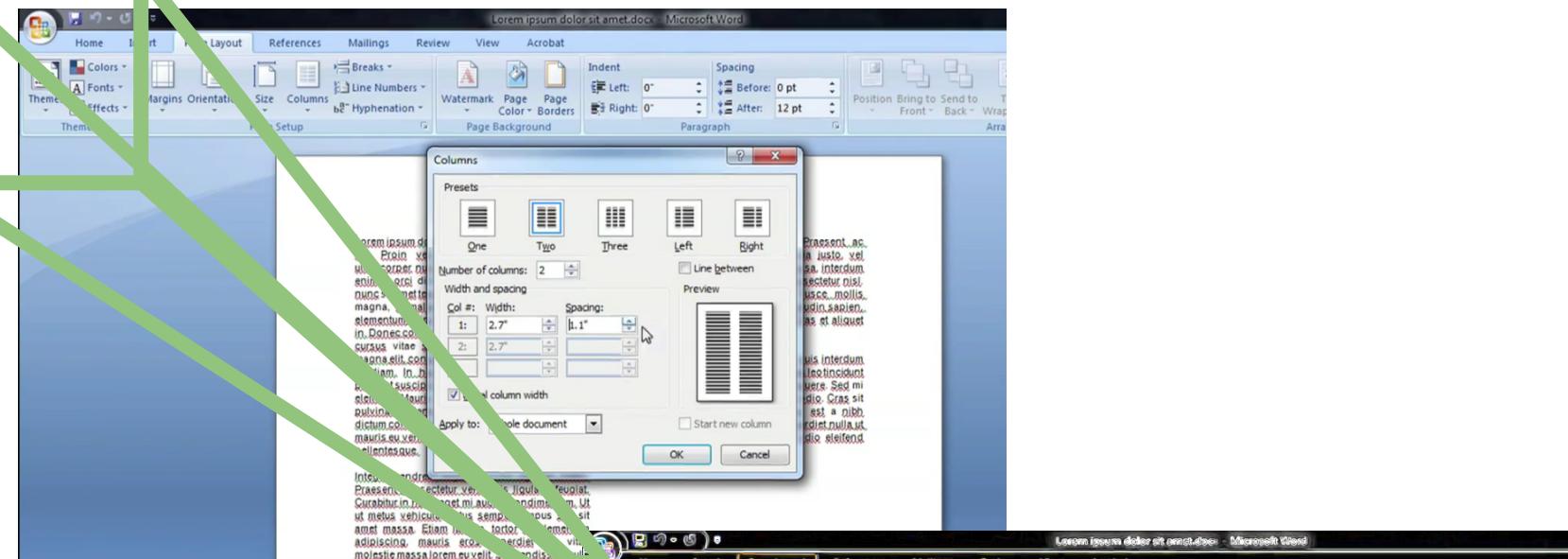


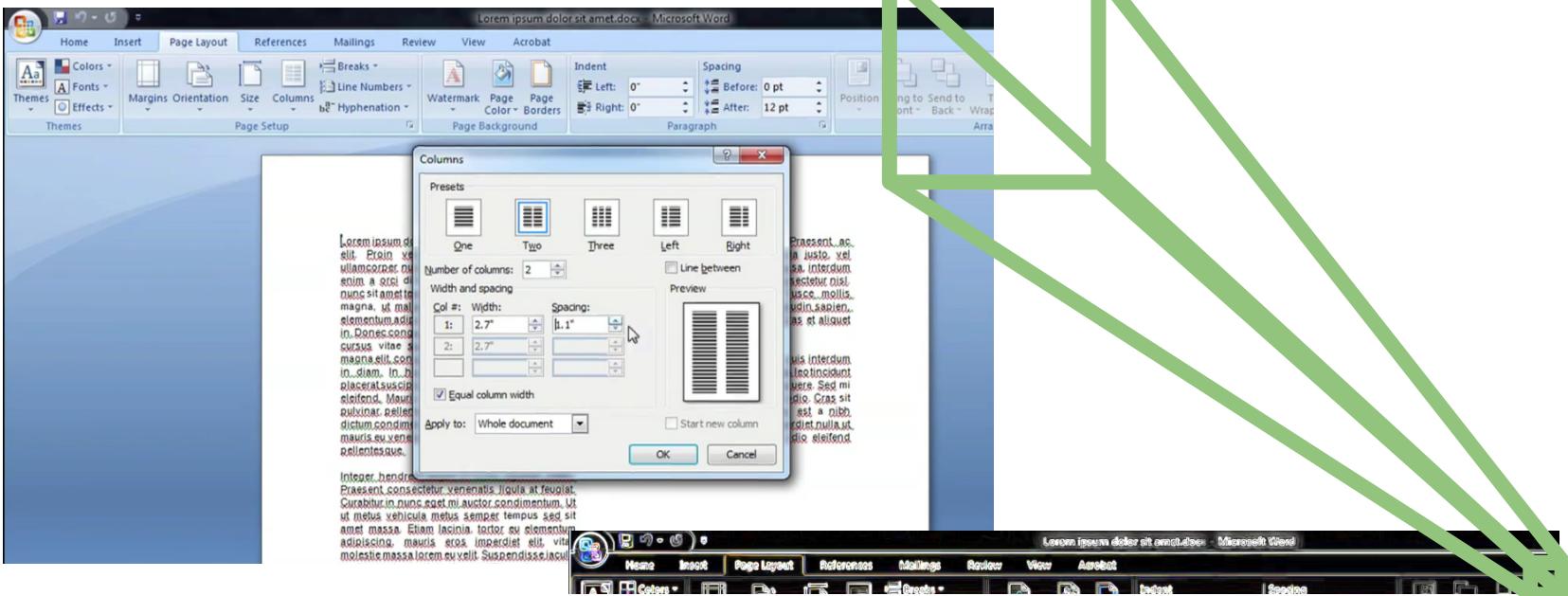


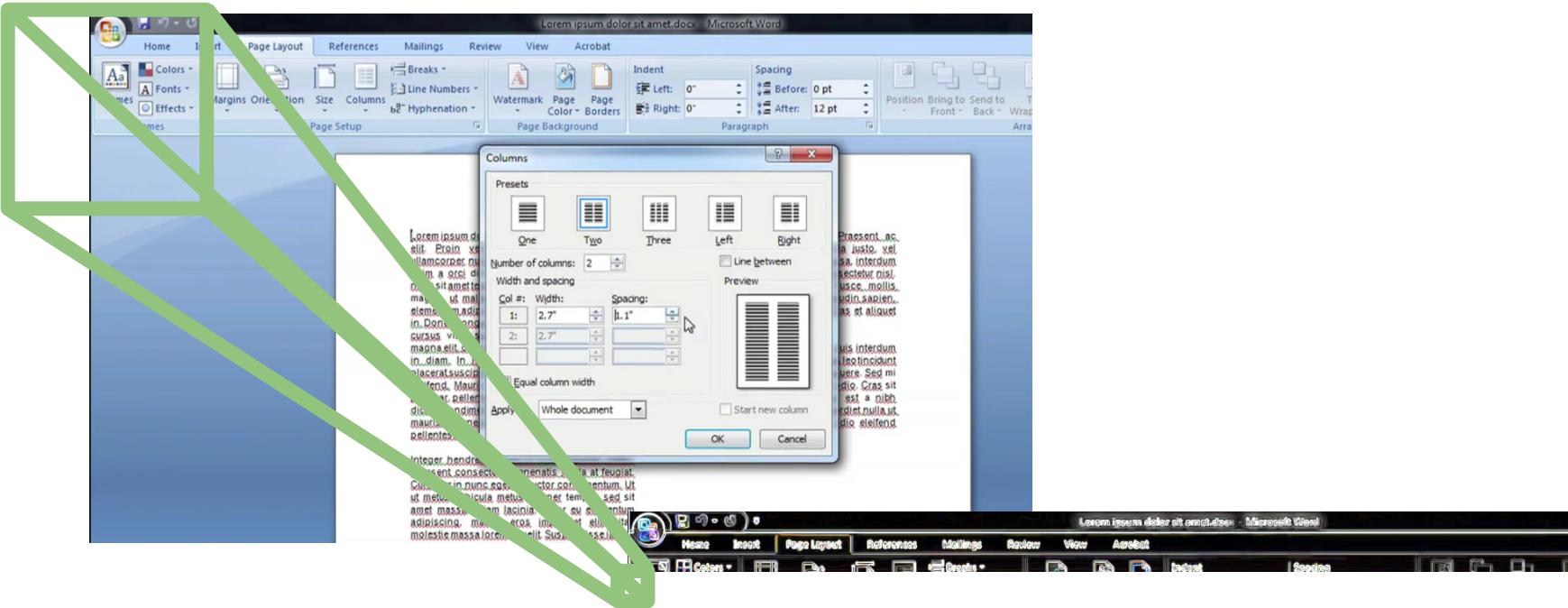


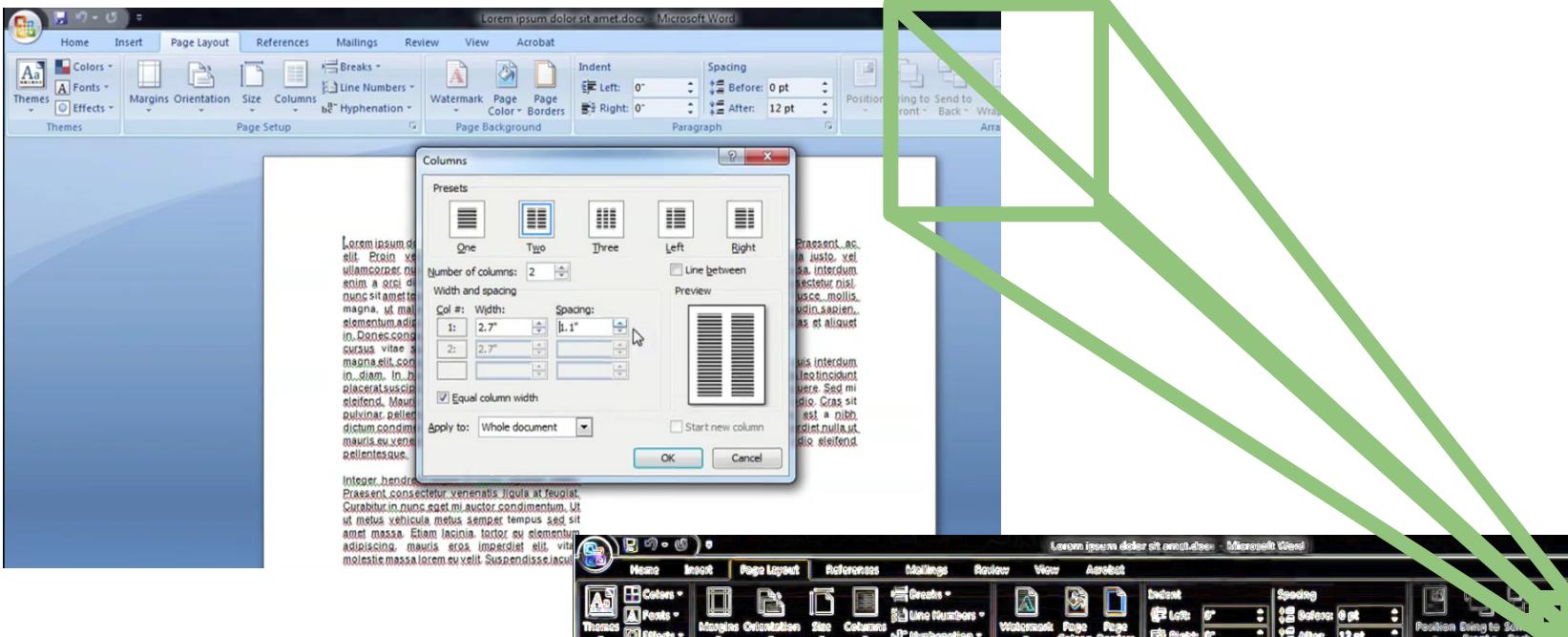


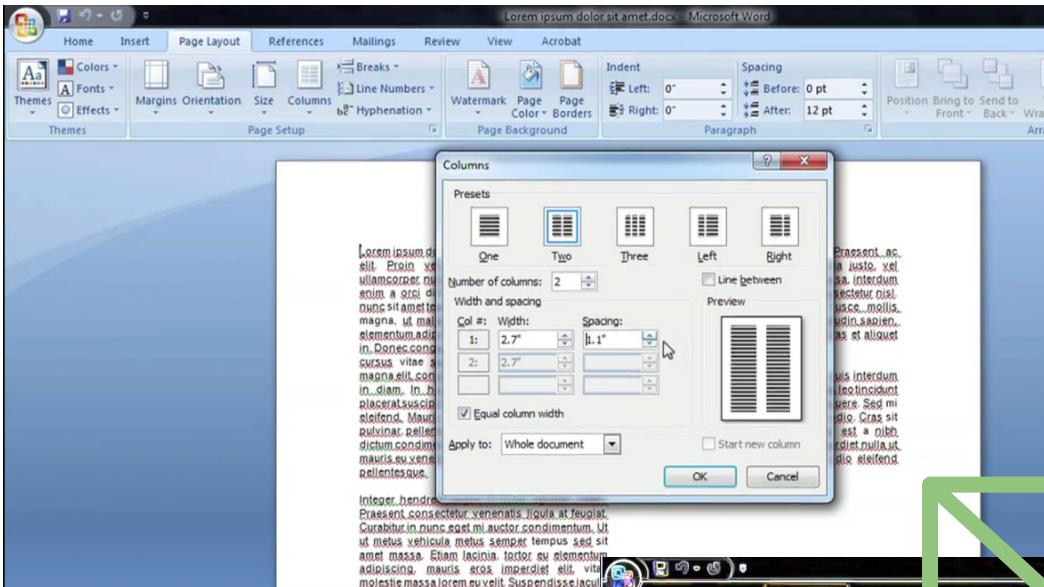


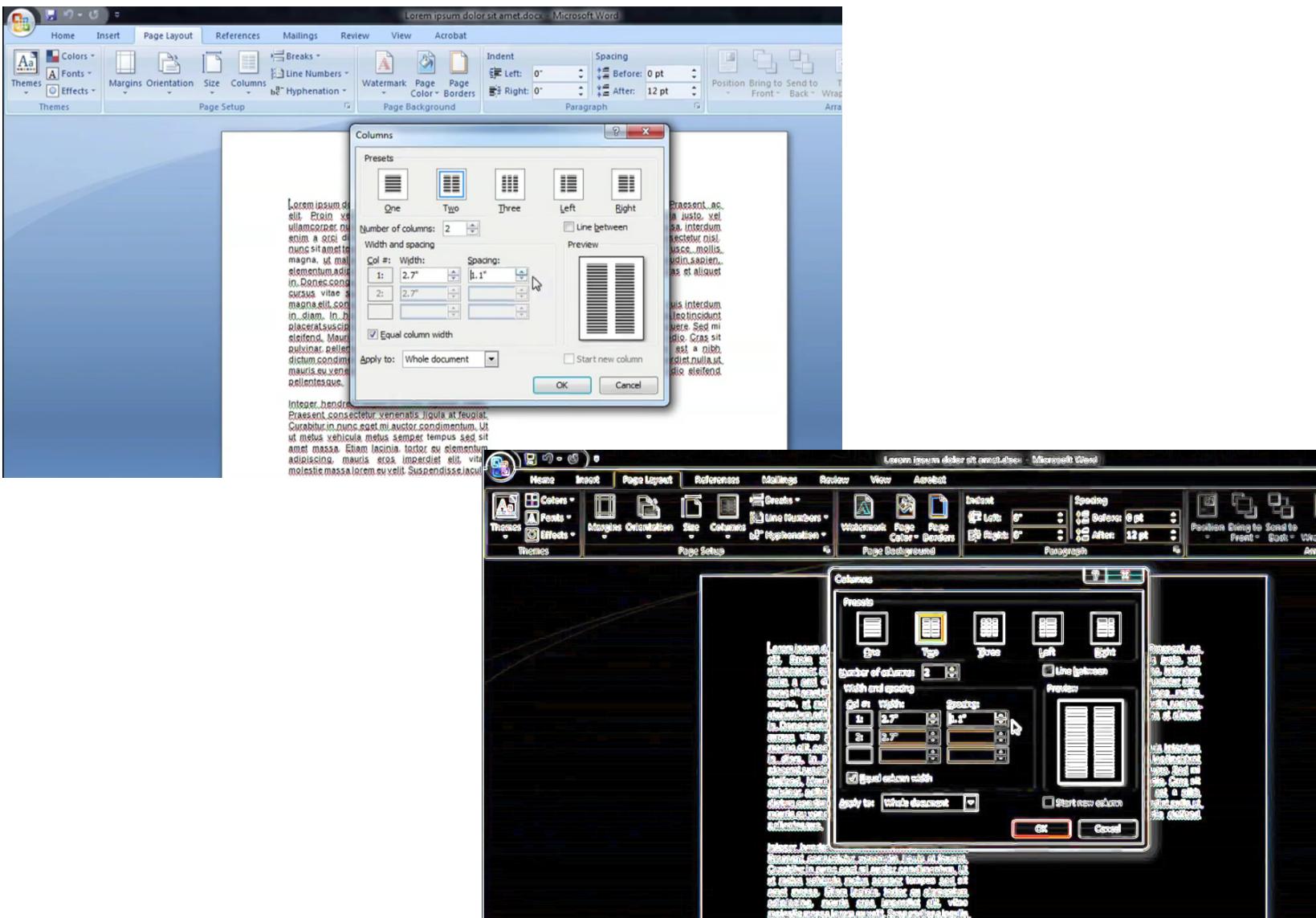


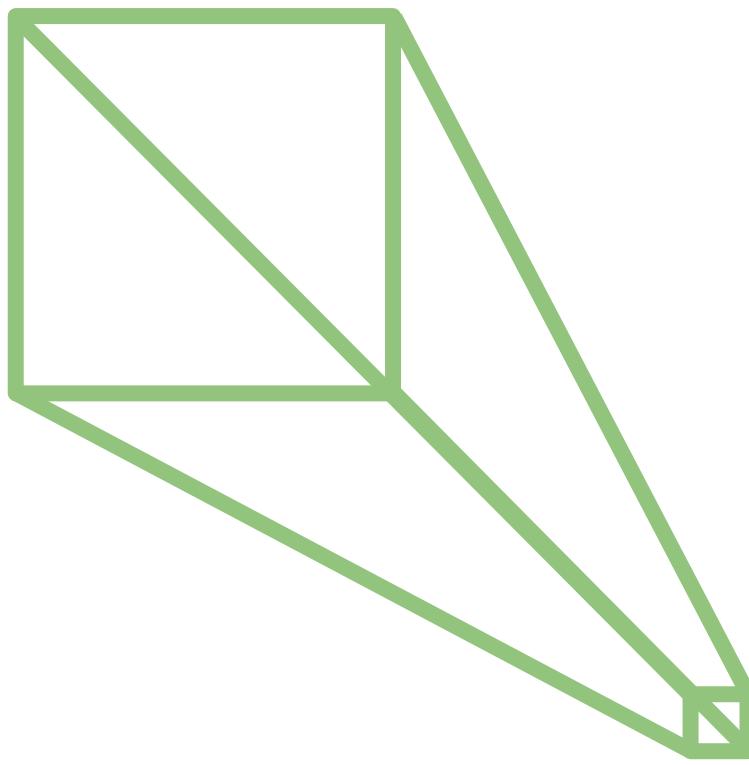


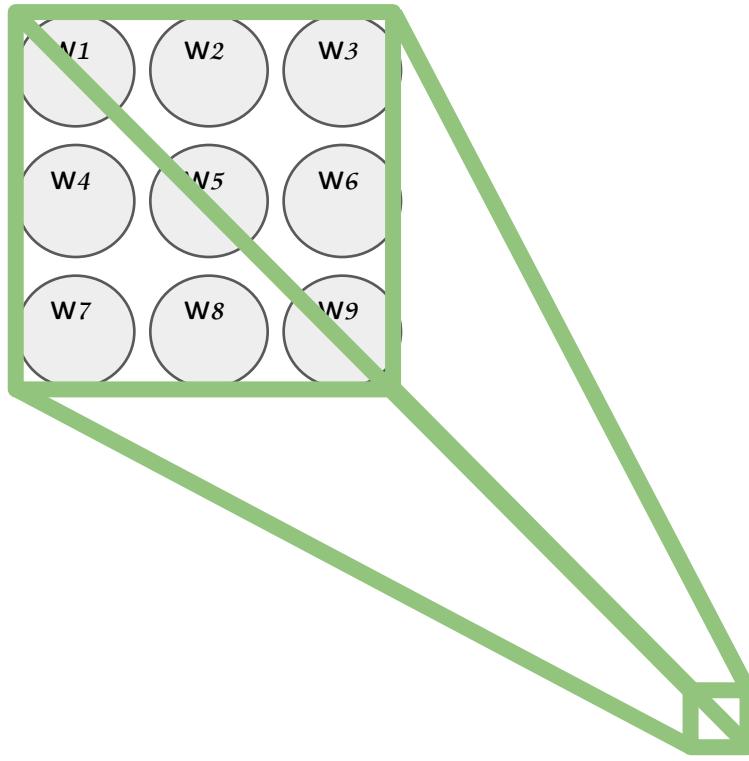


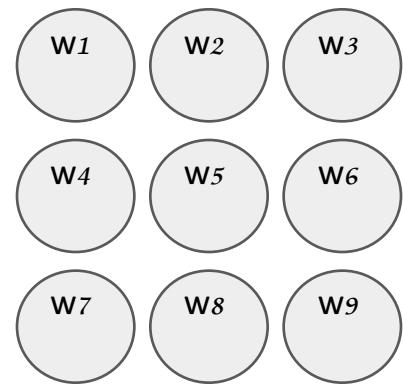


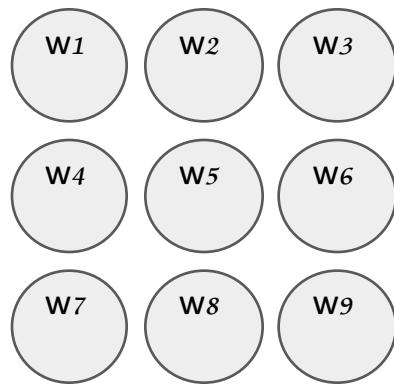


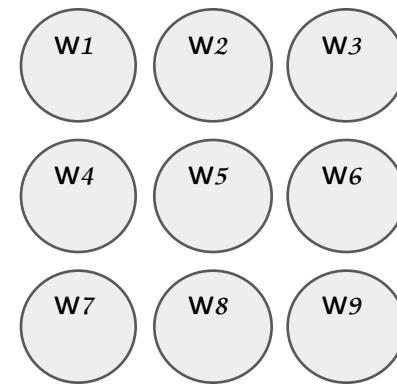
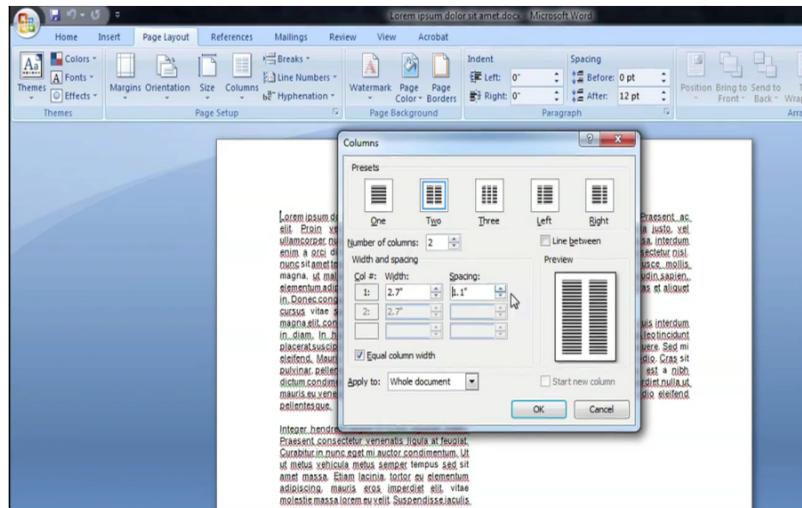




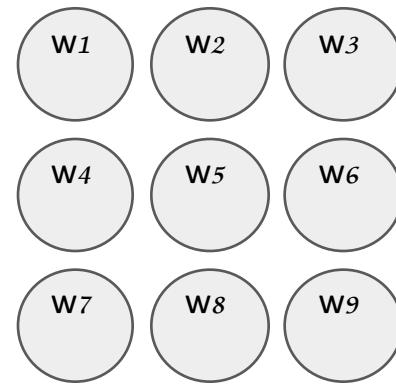




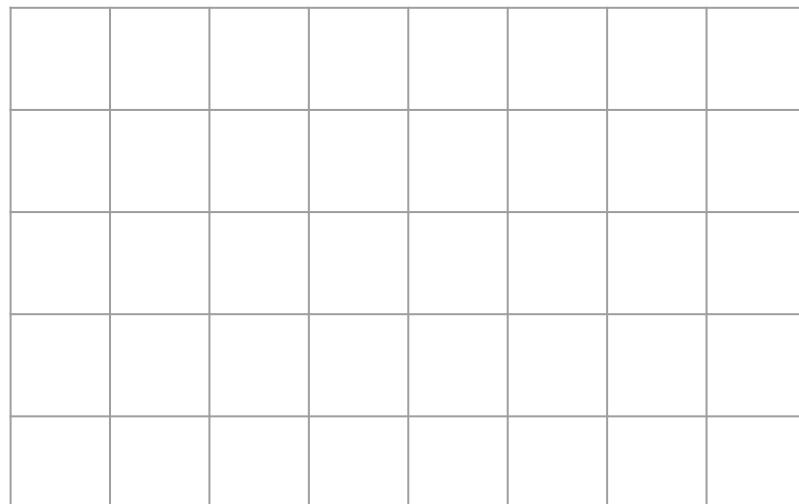
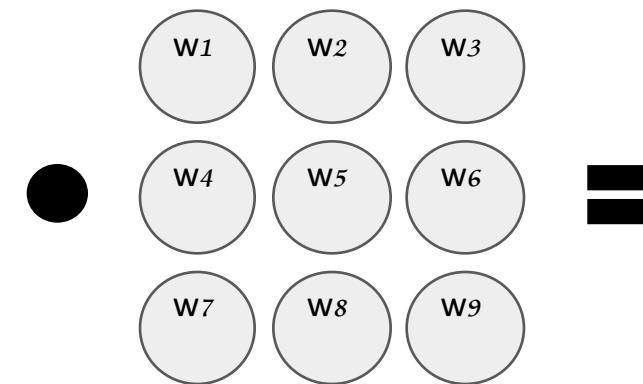




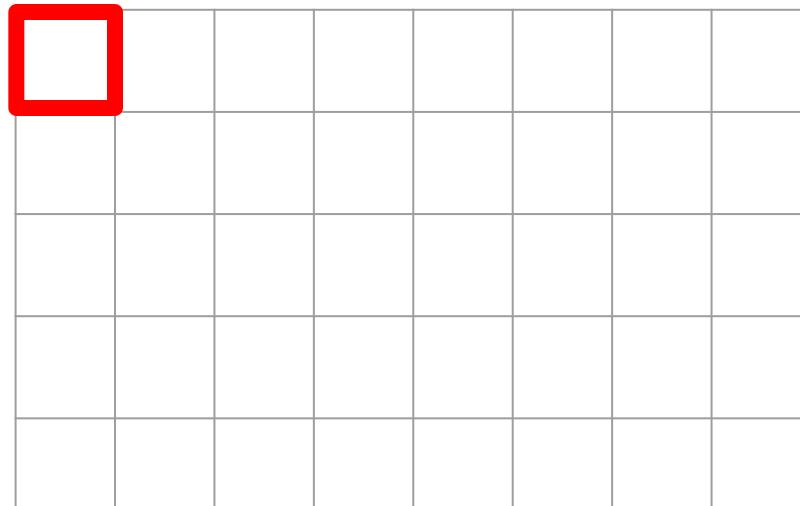
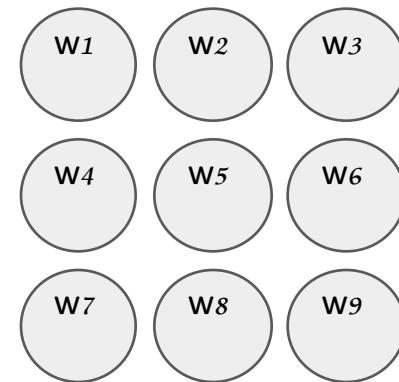
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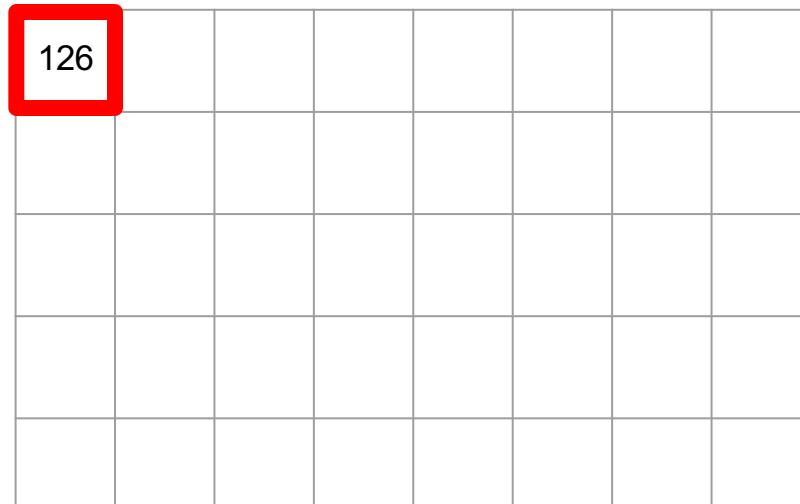
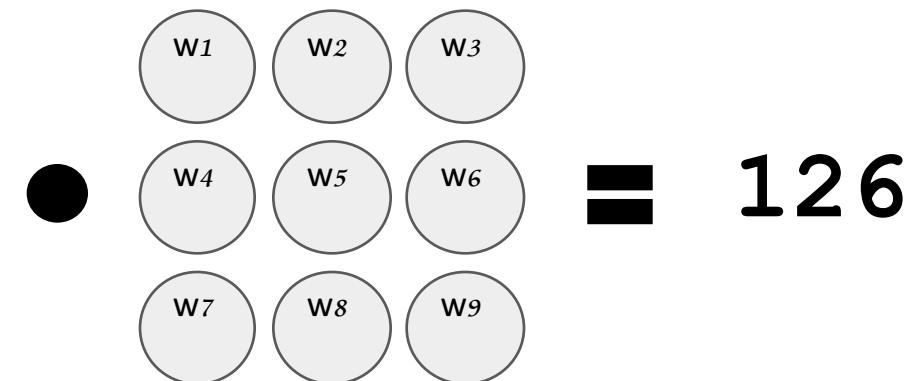
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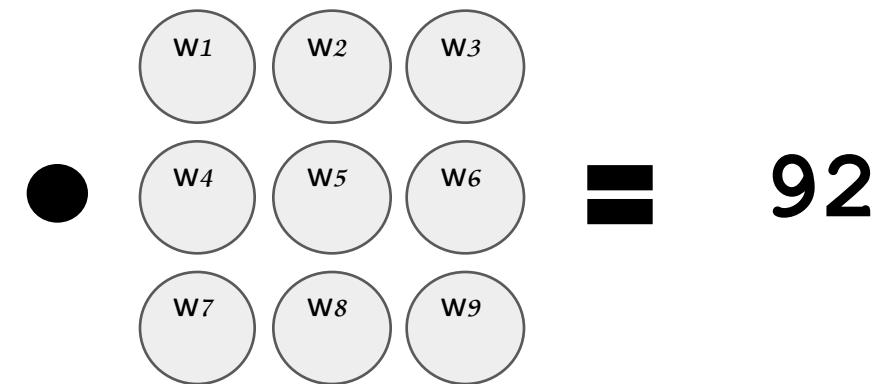
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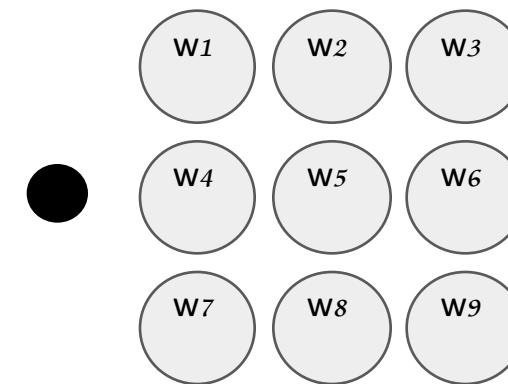


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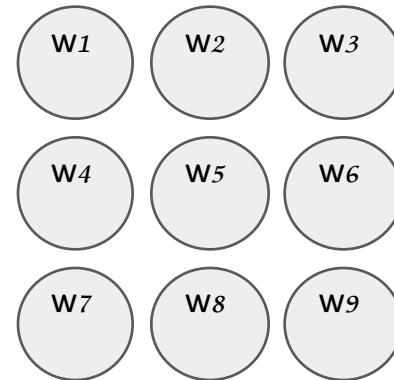
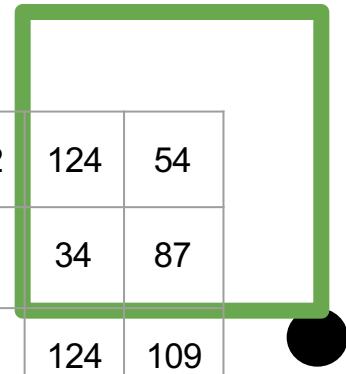
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126	92	254					

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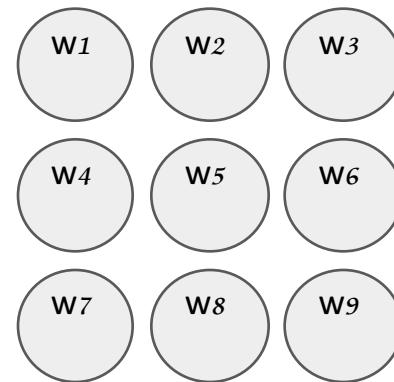
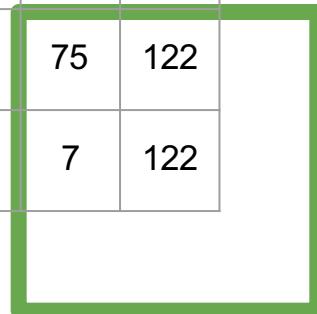


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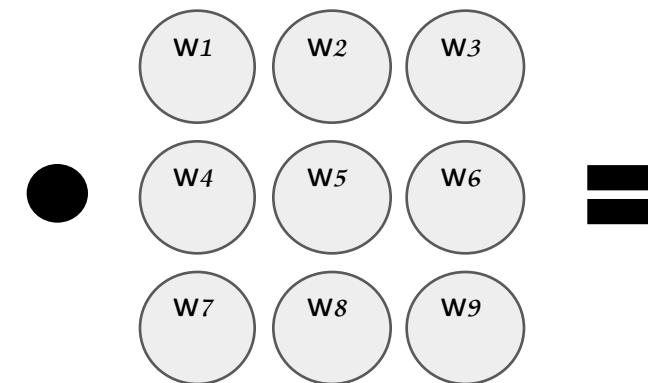
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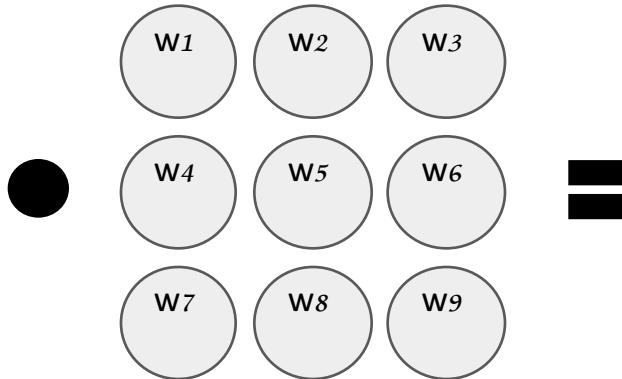
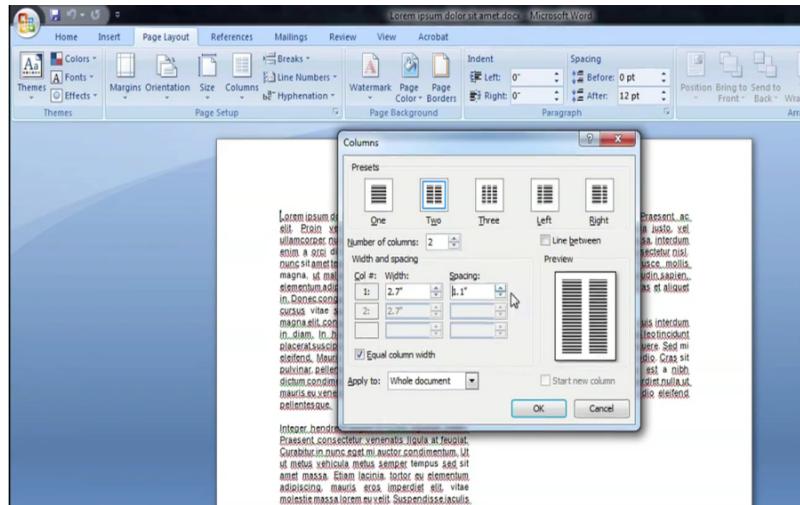
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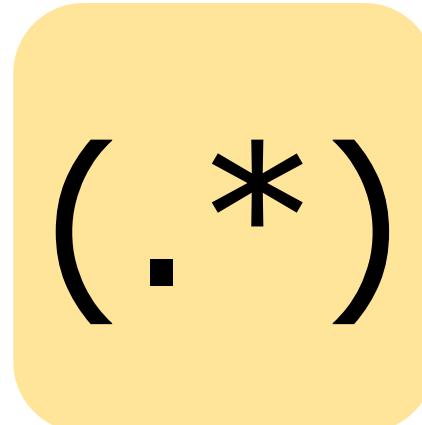
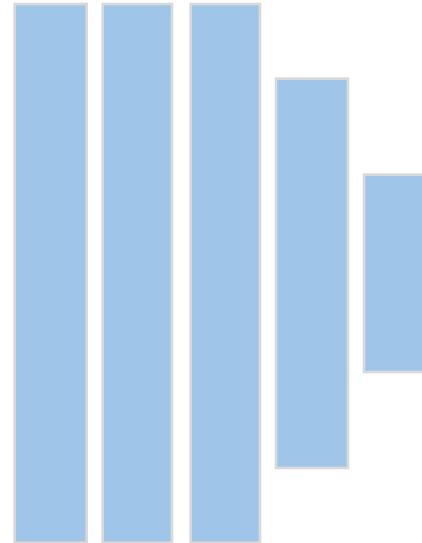
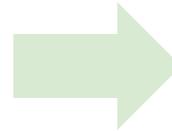
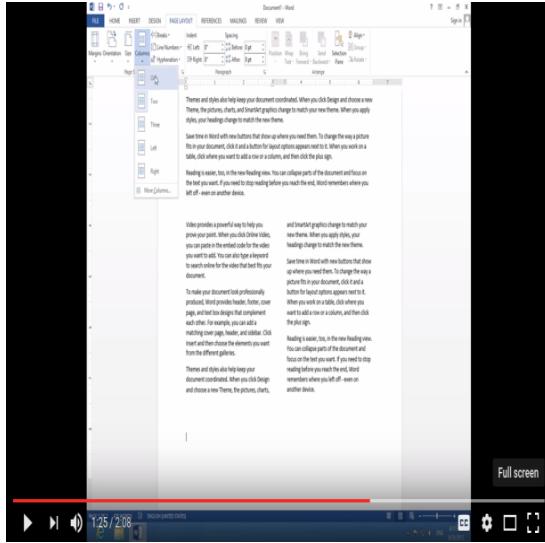
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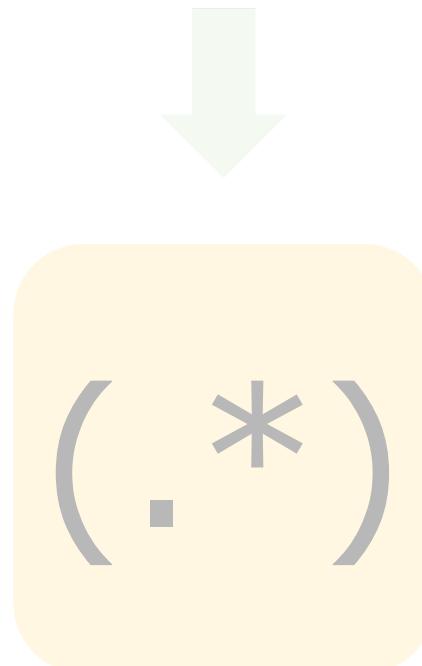
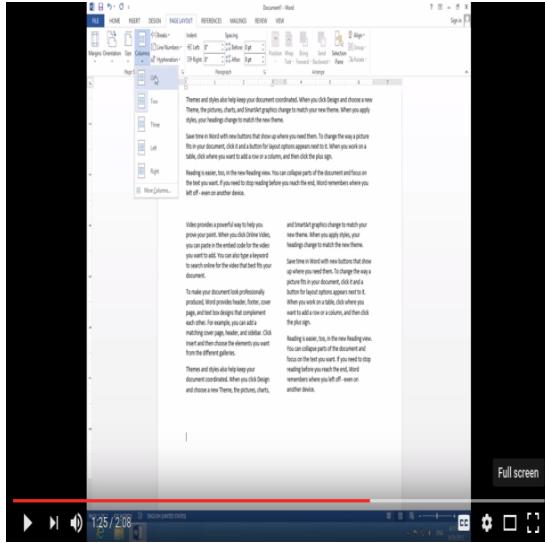
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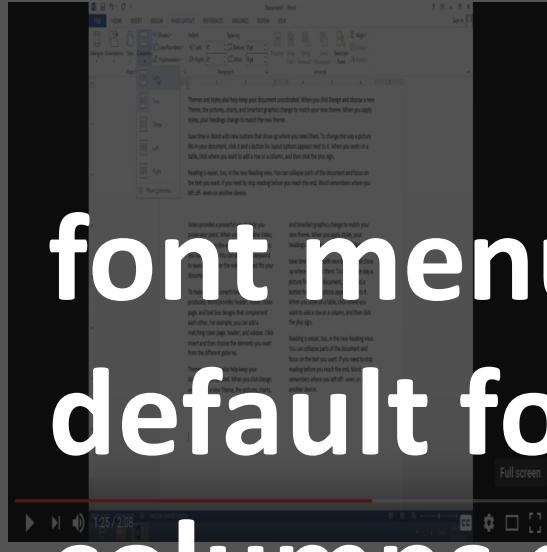
Usage Profile





Usage Profile





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columns drop down

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columns window

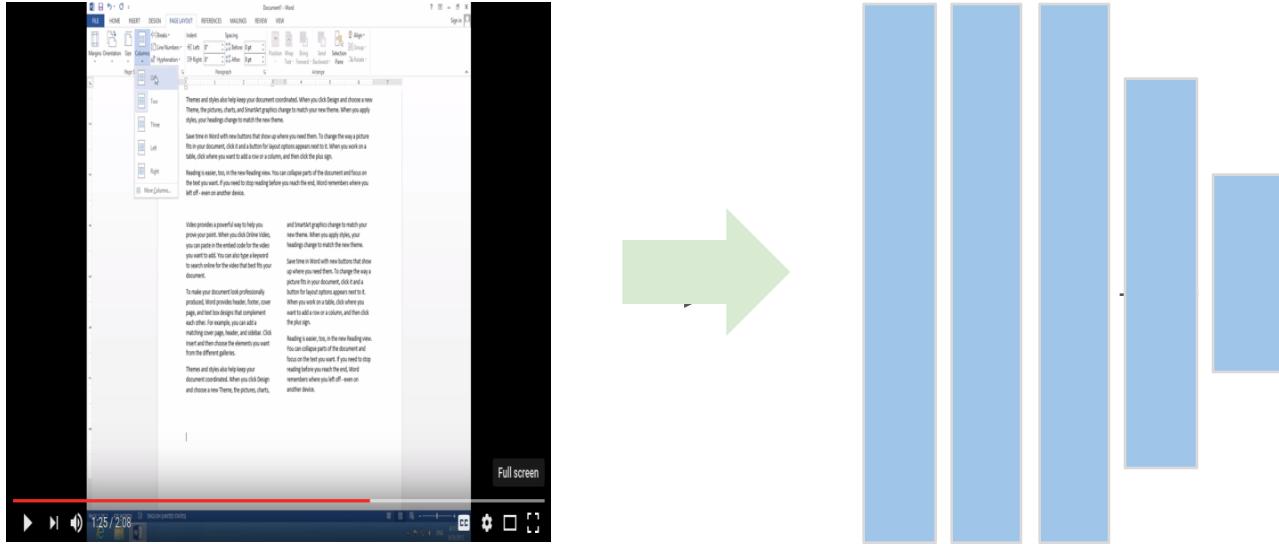
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Usage
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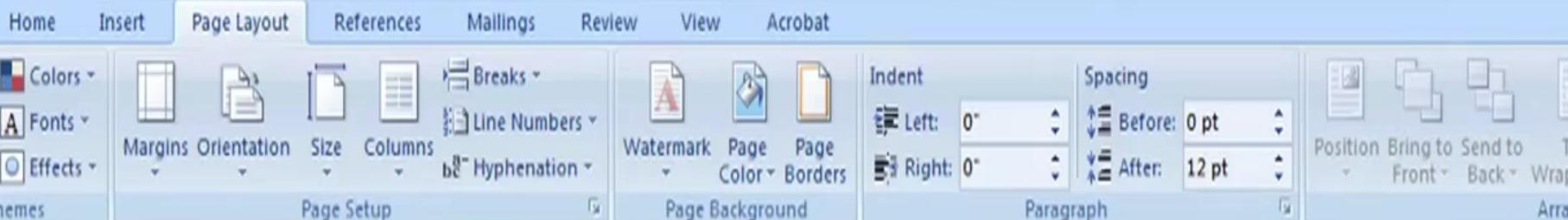
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The image displays five windows of Microsoft Word, illustrating the 'Columns' feature across different document sections and page layouts.

- Top Left Window:** Shows a single column of text under the 'Page Layout' tab, indicating the current state of the document.
- Top Middle Window:** Shows a two-column layout. The 'Page Layout' tab is selected, and the 'Columns' icon in the ribbon is highlighted. A context menu for 'More Columns...' is open, showing options like 'Text into two or more columns'.
- Top Right Window:** Shows a two-column layout. The 'Page Layout' tab is selected, and the 'Columns' icon in the ribbon is highlighted. A context menu for 'More Columns...' is open, showing options like 'Text into two or more columns'.
- Bottom Left Window:** Shows a two-column layout. The 'Page Layout' tab is selected, and the 'Columns' icon in the ribbon is highlighted. A context menu for 'More Columns...' is open, showing options like 'Text into two or more columns'.
- Bottom Middle Window:** Shows a two-column layout. The 'Page Layout' tab is selected, and the 'Columns' icon in the ribbon is highlighted. A context menu for 'More Columns...' is open, showing options like 'Text into two or more columns'.
- Bottom Right Window:** Shows the 'Columns' dialog box. It includes settings for 'Number of columns' (set to 2), 'Width and spacing' (Cell width: 1", Spacing: 0.5"), and 'Preview' (showing a 2x2 grid). There are buttons for 'OK' and 'Cancel'.

The main document content in all windows is identical, featuring a multi-paragraph text block with various styling elements like bold, italic, and underline applied to different parts of the text.





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Home Insert Page Layout References Mailings Review View Acrobat

Colors Fonts Effects Themes Margins Orientation Size Columns Line Numbers Hyphenation Watermark Page Color Borders

Breaks Page Borders

Page Setup Page Background Paragraph

Indent Spacing Position Bring to Front

Left: 0 pt Before: 0 pt Right: 0 pt After: 12 pt

Themes Page Setup Paragraph

Page Background Paragraph

Position Bring to Front

Front Back Wrap

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Home Insert Page Layout References Mailings Review View Acrobat

Colors Fonts Margins Orientation Size Columns Breaks Line Numbers Hyphenation Watermark Page Color Page Borders

Themes Effects Themes Page Set Position Bring to Front Send to Back Wrap

Paragraph

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More Columns...

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More Columns...

text into two or more mns.

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Themes Page Setup Page Background Paragraph Position Bring to Front Send to Back Wrap

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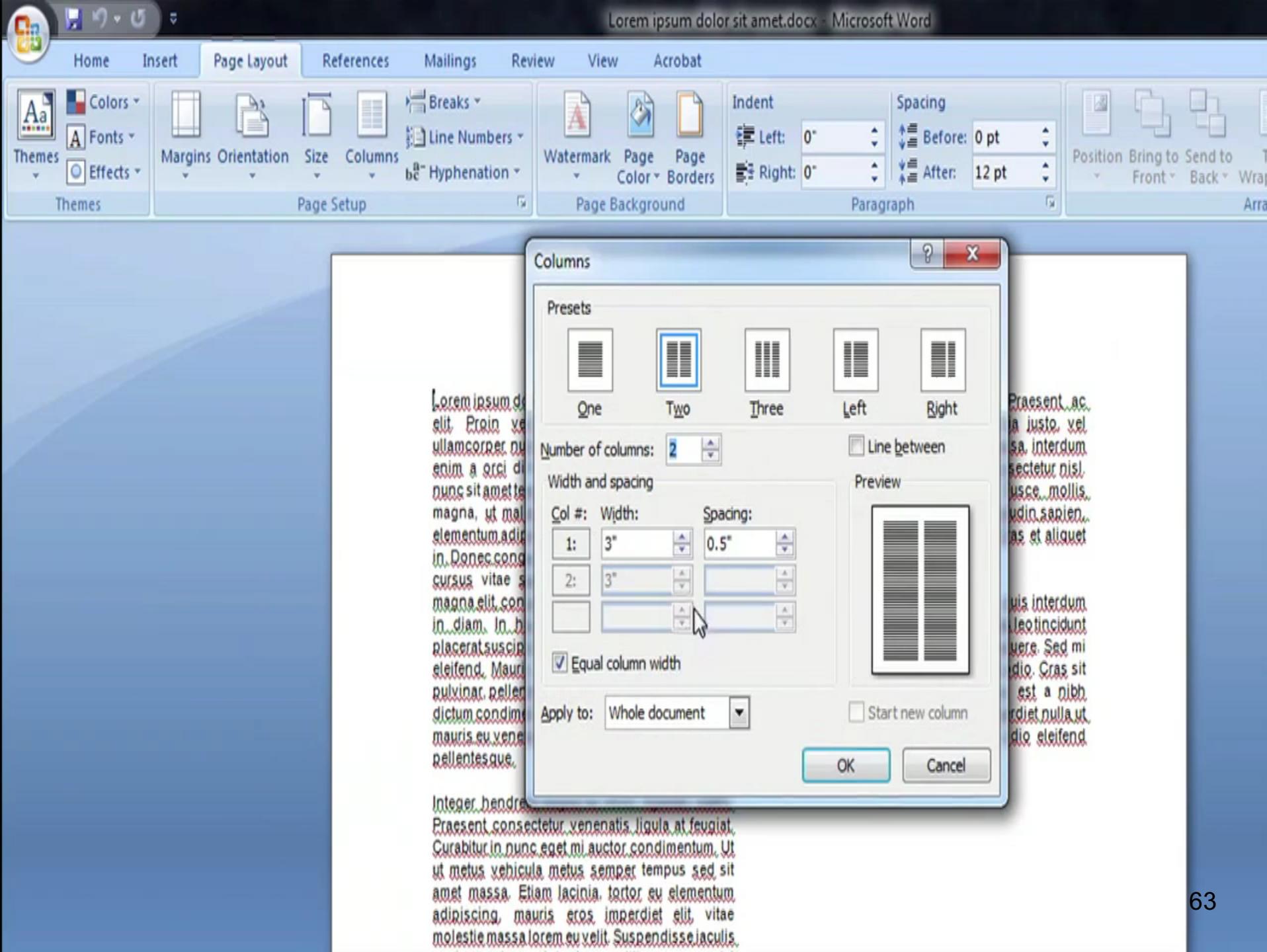
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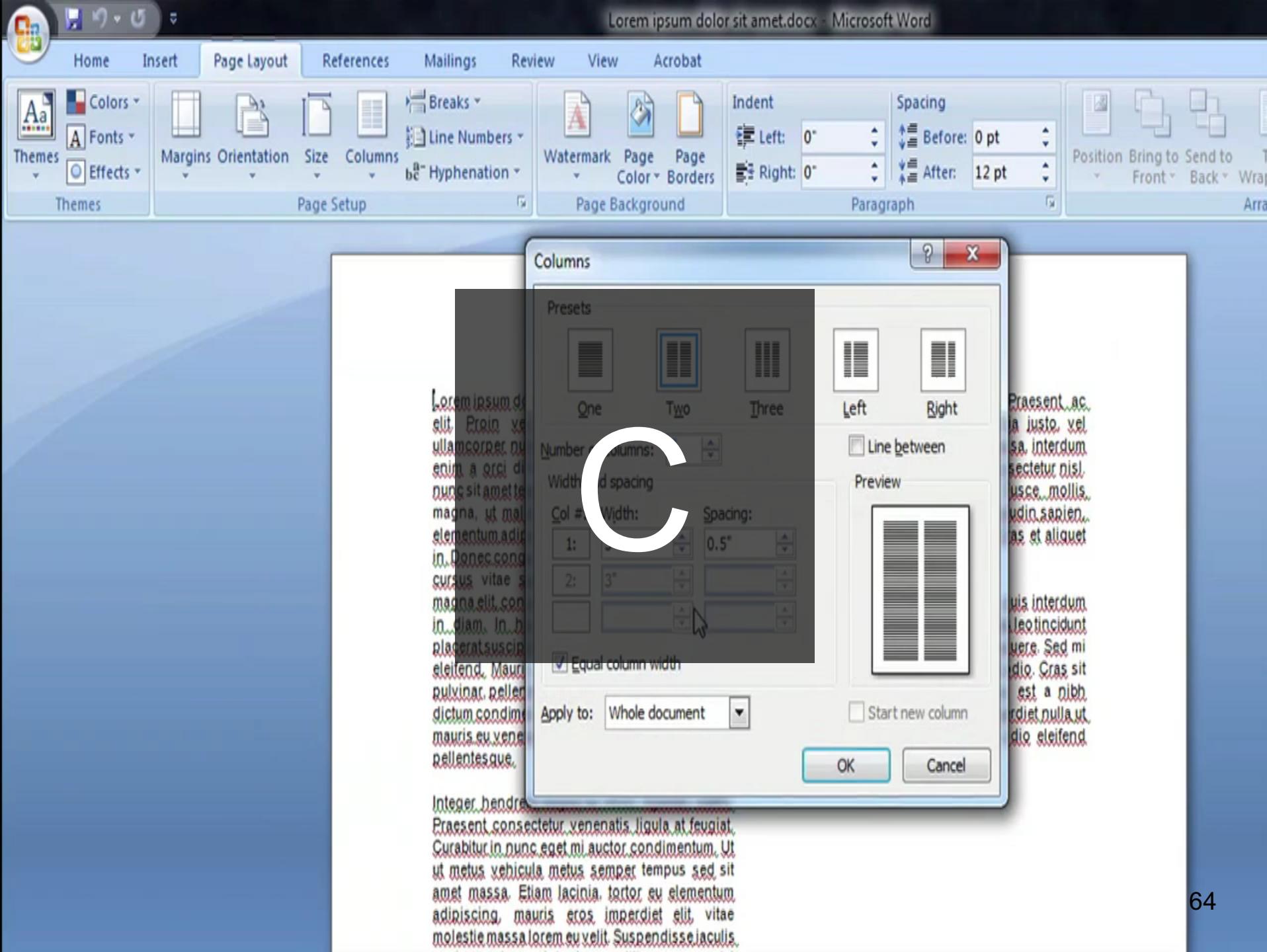
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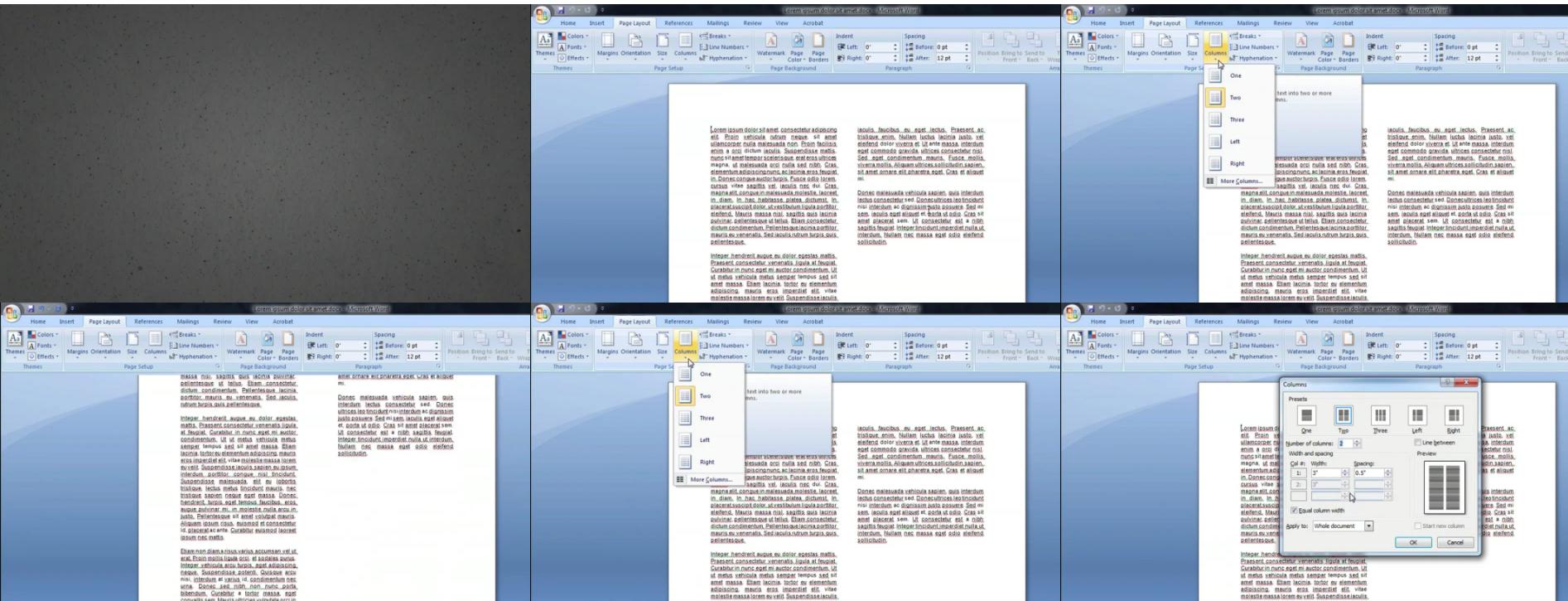
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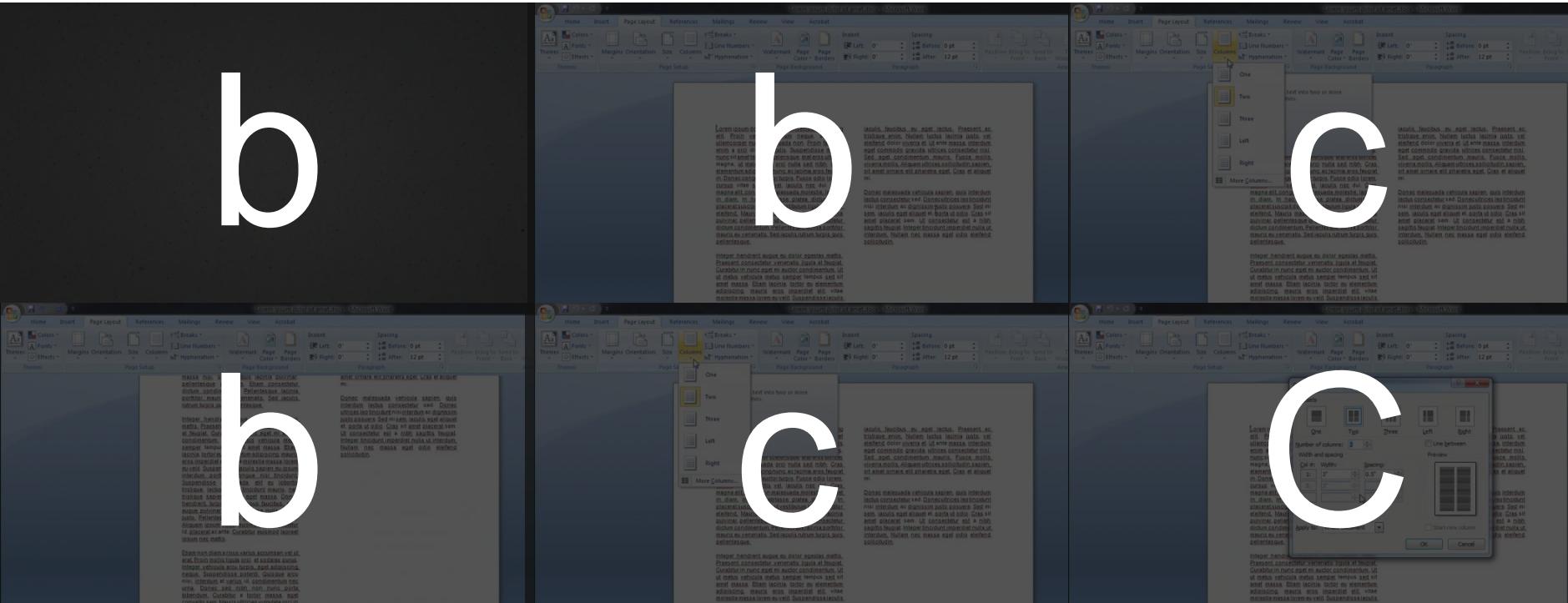
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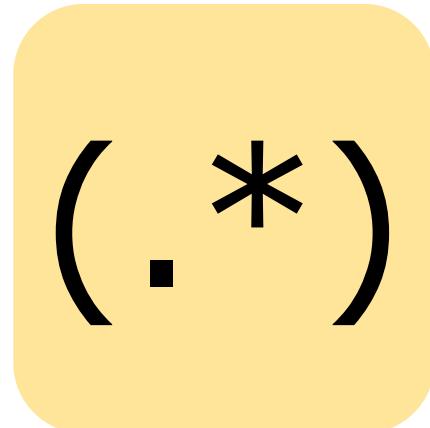
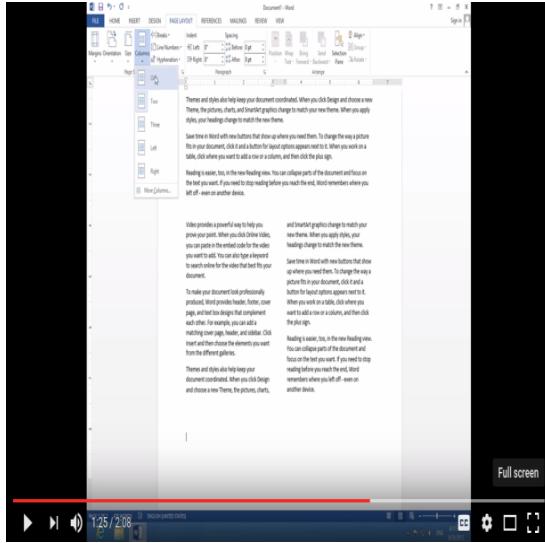
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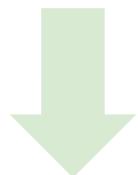
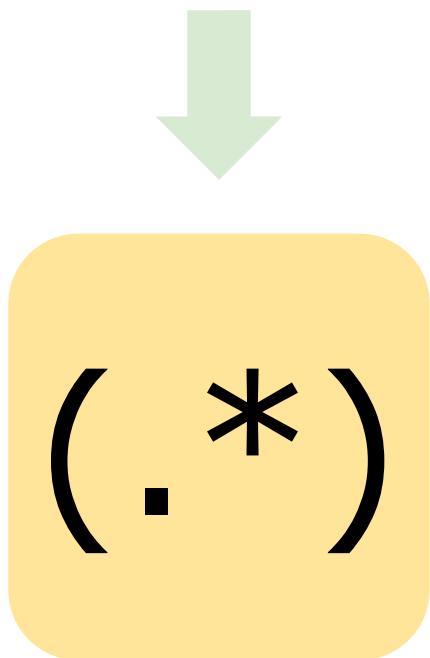




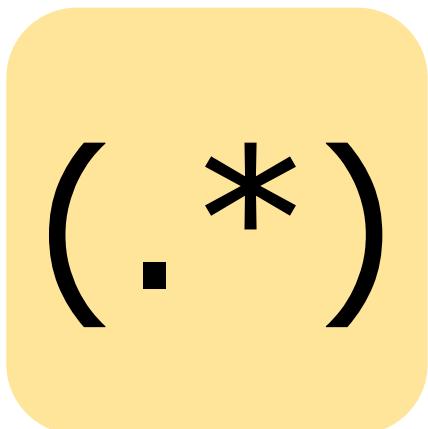
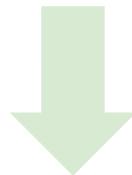


Usage Profile

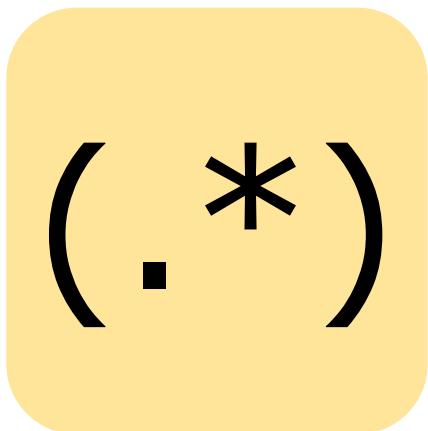
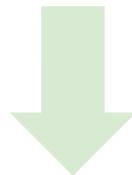




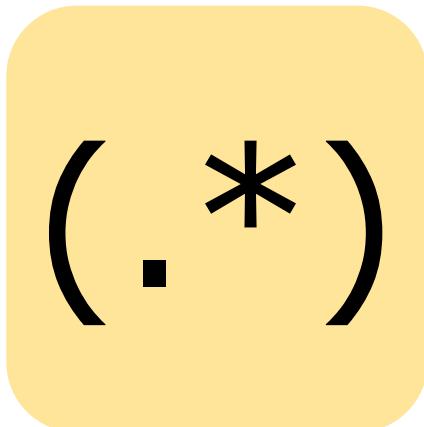
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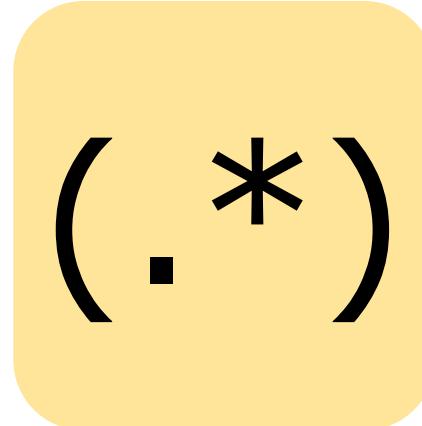
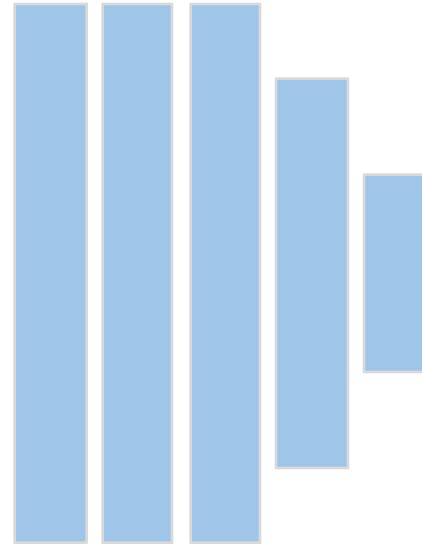
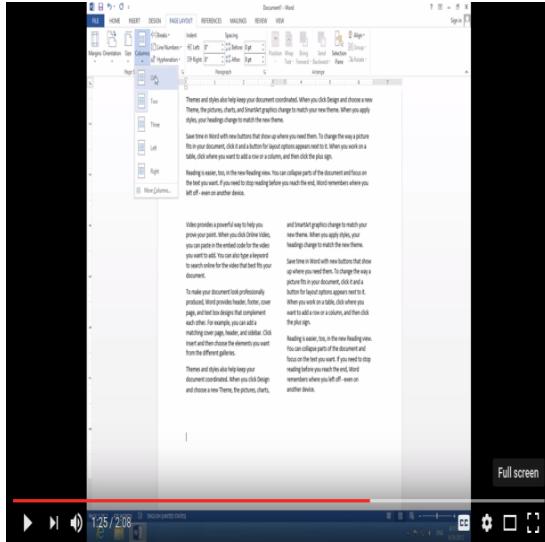
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Usage Profile

User Action Classification

	b	f	F	c	C	p	Recall
b	38852	49	25	210	170	198	98.35%
f	27	86	2	0	3	0	72.88%
F	8	4	33	0	1	0	71.74%
c	34	0	0	347	0	0	91.08%
C	93	0	1	2	300	0	75.76%
p	39	0	0	0	1	253	86.35%
	99.49%	61.87%	54.10%	62.08%	63.16%	56.10%	precision
	98.91%	66.93%	61.68%	73.83%	68.89%	68.01%	F1-score

User Action Classification

	b	f	F	c	C	p	Recall
b	38852	49	25	210	170	198	98.35%
f	27	86	2	0	3	0	72.88%
F	8	4	33	0	1	0	71.74%
c	34	0	0	34	0	0	91.08%
C	93	0	1	2	300	0	75.76%
p	39	0	0	0	1	253	86.35%
	99.49%	61.87%	54.10%	62.08%	63.16%	56.10%	precision
	98.91%	66.93%	61.68%	73.83%	68.89%	68.01%	F1-score

61% - 73% accuracy

Sequence of Actions Classification

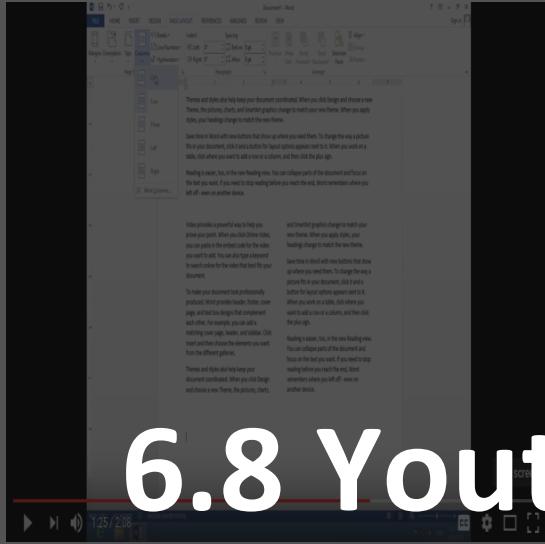
	α	β	γ	δ	η	Recall
α	4	1	1	0	0	66.67%
β	2	15	0	0	0	88.24%
γ	1	0	75	2	2	93.75%
δ	0	0	4	54	0	93.10%
η	0	0	1	0	74	98.67
	57.14%	93.75%	92.59%	96.43%	97.37%	precision
	61.54%	90.91%	93.17%	94.74%	98.01%	F1-score
	80.16%	95.10%	97.25%	99.82%	99.79%	AP
						75

Sequence of Actions Classification

	α	β	γ	δ	η	Recall
α	4	1	1	0	0	66.67%
β	2	15	0	0	0	88.24%
γ	1	0	75	2	2	93.75%
δ	0	0	4	54	0	93.10%
η	0	0	1	74	74	98.67
	57.14%	93.75%	92.59%	96.43%	97.37%	precision
	61.54%	90.91%	93.17%	94.74%	98.01%	F1-score
	80.16%	95.10%	97.25%	99.82%	99.79%	AP

94.43%

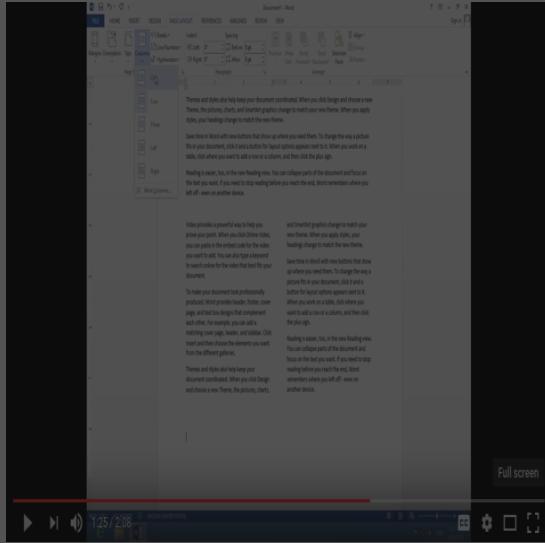
mean average precision



6.8 Youtube hours
per GPU hour
(Nvidia Titan X)

Usage
Profile

(.*)

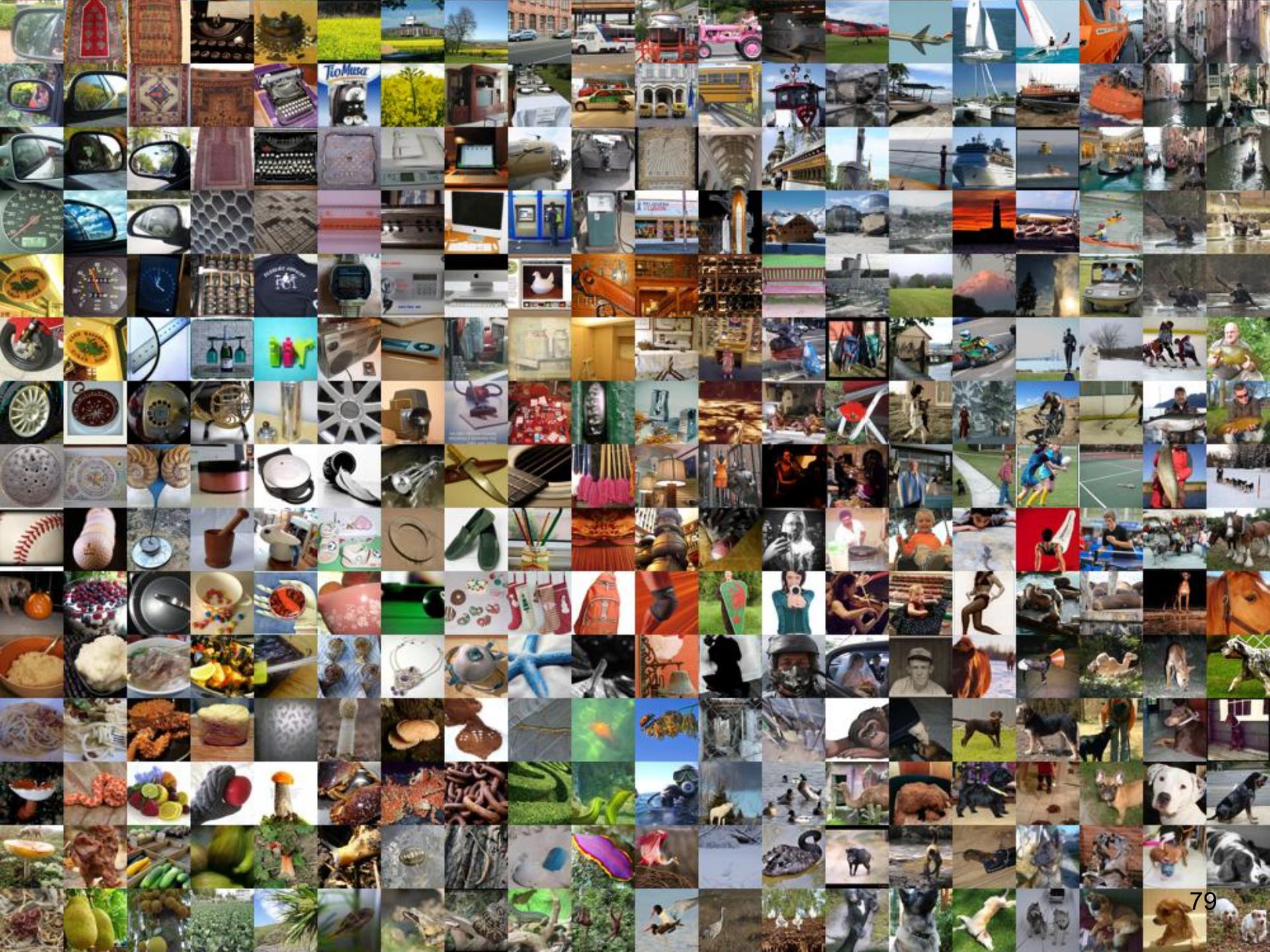


Highly parallelizable



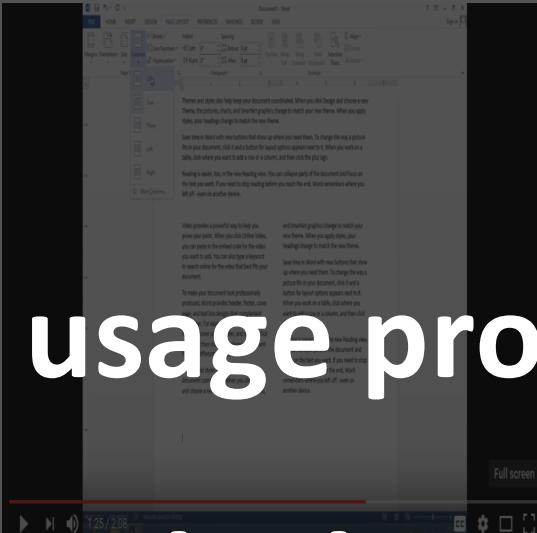
Usage Profile











usage profile creation

system test scenario generation

any other use case requiring
extraction of user actions

(.*)

Profile

Domenic Curro, Konstantinos G. Derpanis, Andriy V. Miranskyy

The data and model are available at:
<https://doi.org/10.5281/zenodo.321921>