

Defining Your Own Stylesheet

Reference: The Docs

<http://matplotlib.org/users/customizing.html>

and

http://matplotlib.org/users/style_sheets.html#style-sheets

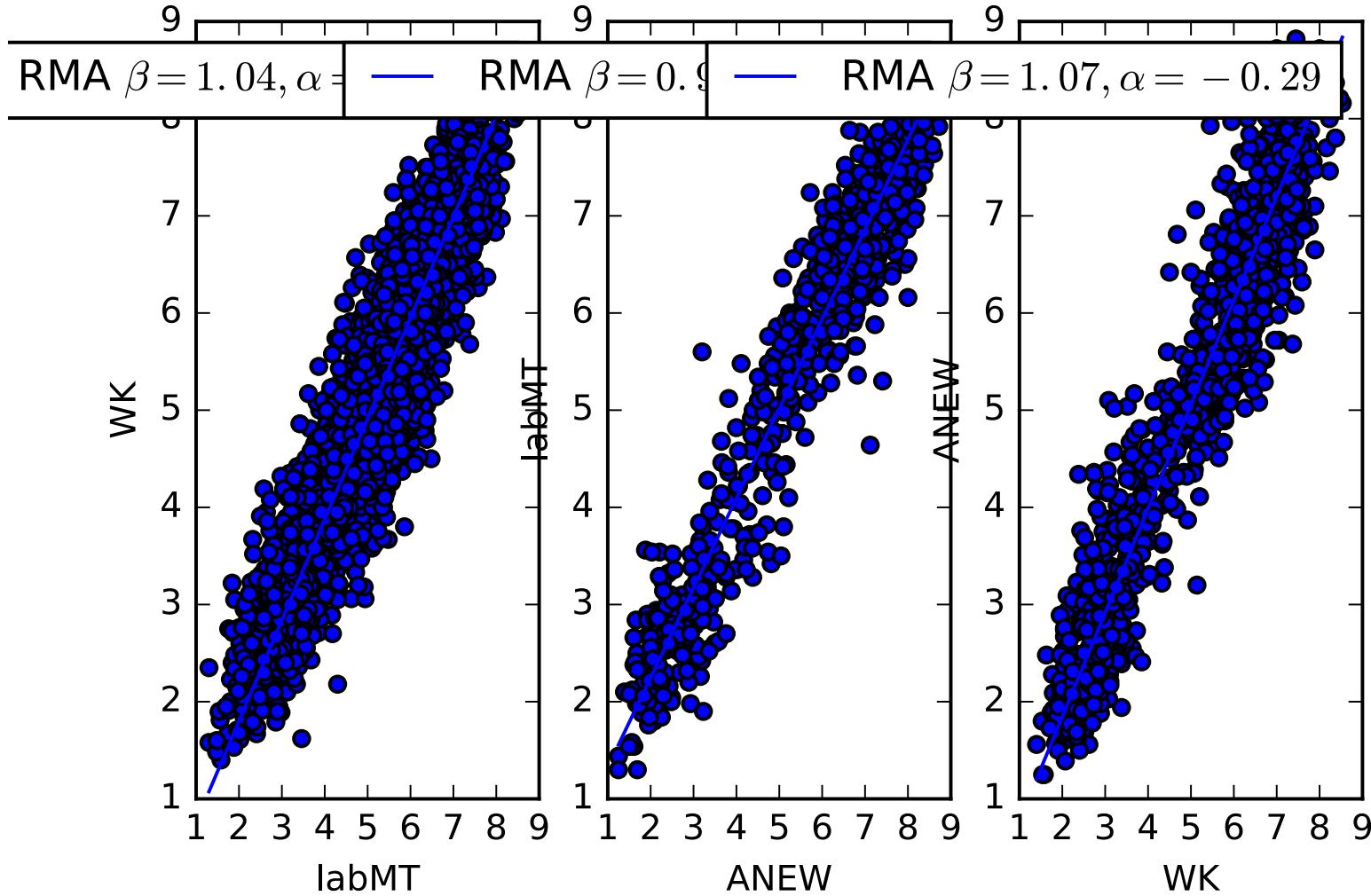
Case Study: Publication

Dodds, et al., publish Human language reveals a universal positivity bias in *PNAS*.

Refuted by Garcia, et al., in *The language-dependent relationship between word happiness and frequency*.

Goal: Show that three datasets of word positivity are correlated!

Plot the three datasets



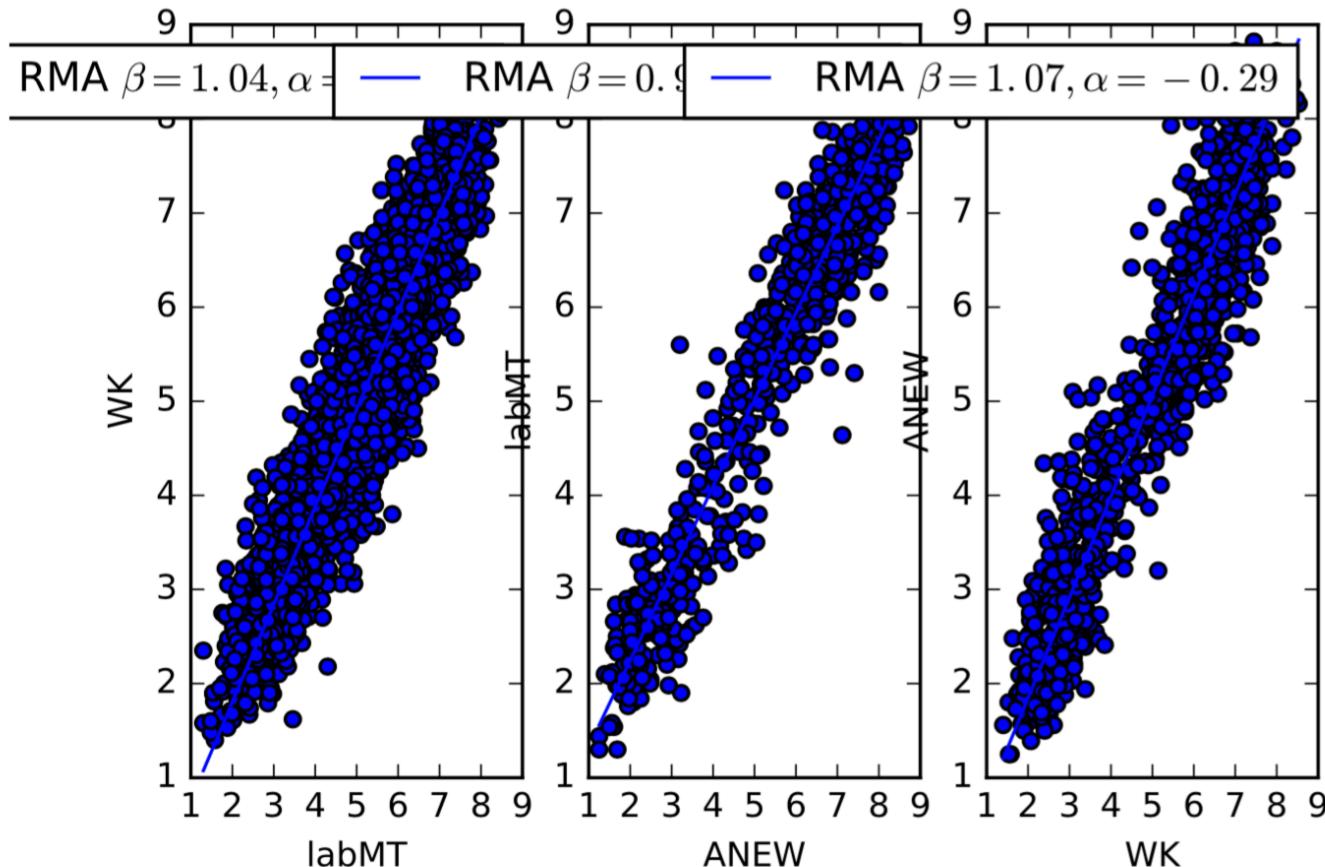


FIG. 1. Comparison of word ratings for three studies for overlapping words: labMT [1, 6], ANEW [10], and Warriner and Kuperman [11]. Reduced major axis regression [14] yield the fits $h'_{avg} = \beta h_{avg} + \alpha$.

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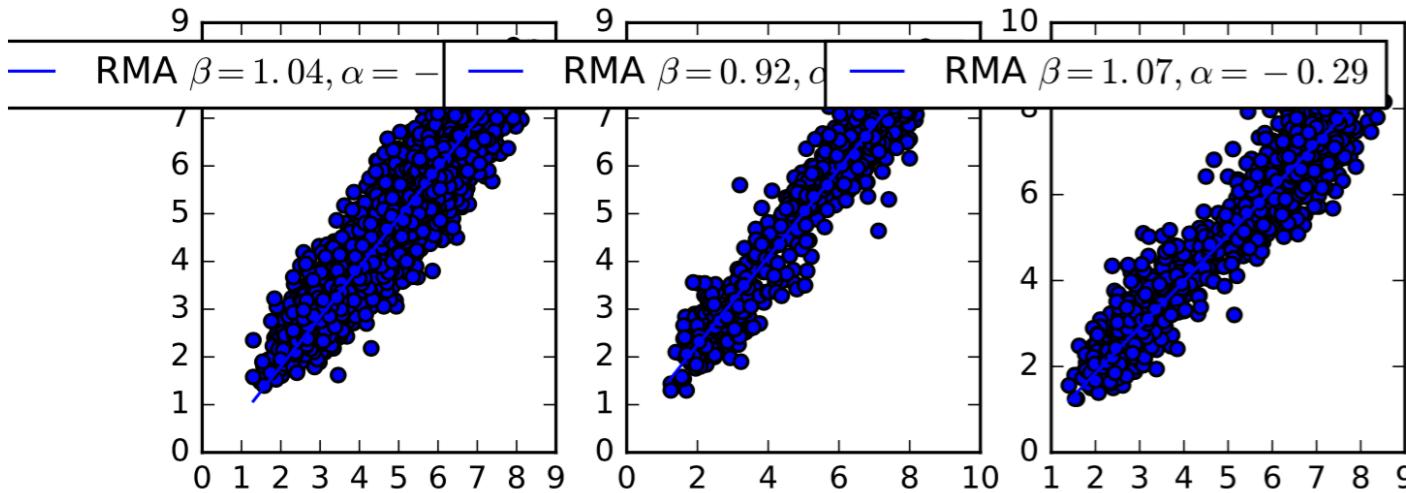


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Third, given the nature of language and surveys and changing demographics online, an exact match for the medians would be a remarkable achievement. The agree-

III. DEPENDENCE OF POSITIVITY ON FREQUENCY OF USAGE

We turn now to Garcia *et al.*’s central claim: that we claimed to find that a positivity bias is *independent* of word frequency across 10 languages. In fact, we instead variously stated that a positivity bias is “strongly” and “largely” independent of frequency, and we explored the minor departures from pure independence in detail for all 24 corpora across 10 languages (see [1] and the paper’s online appendices).

Garcia *et al.* write that our paper specifically conflicts

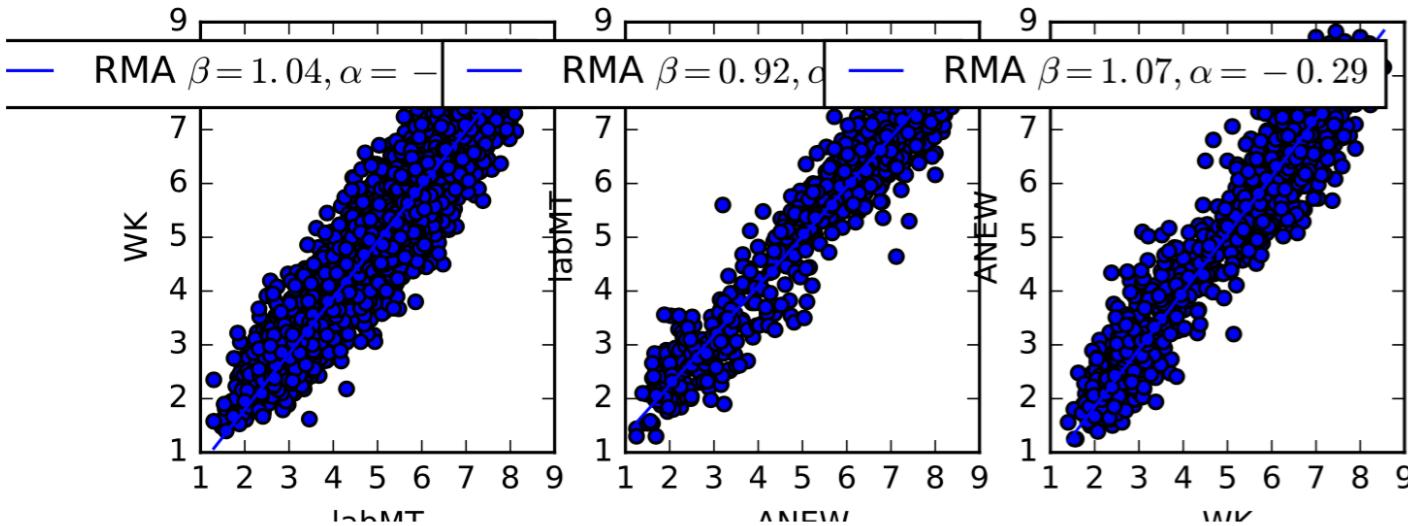


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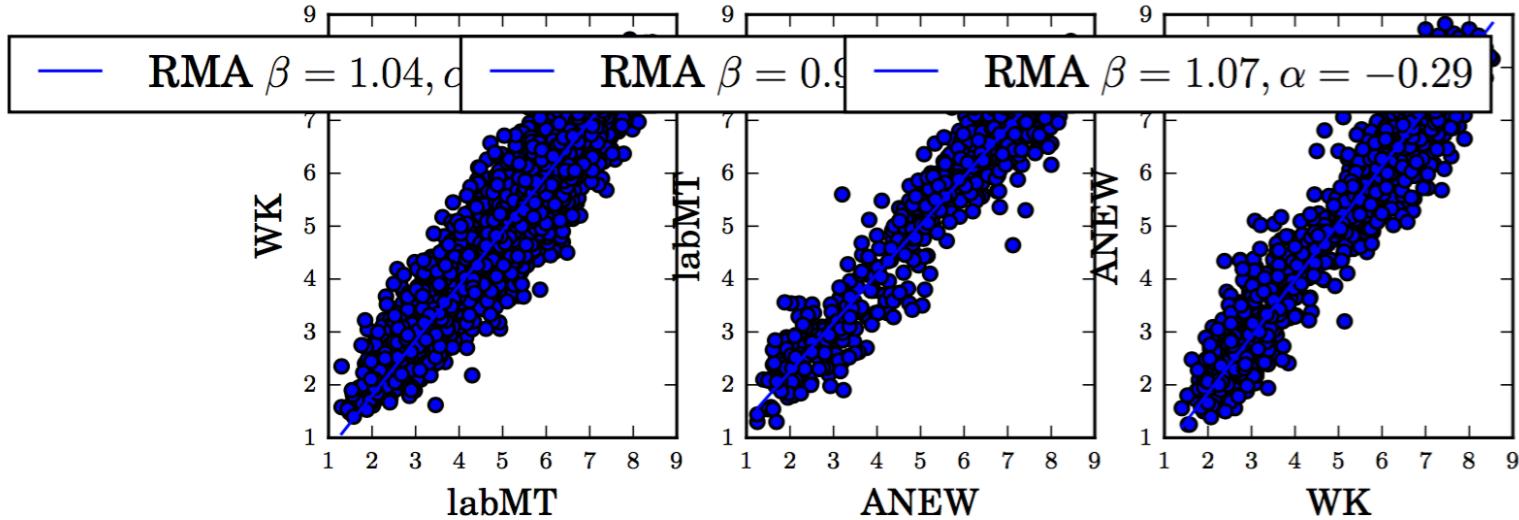


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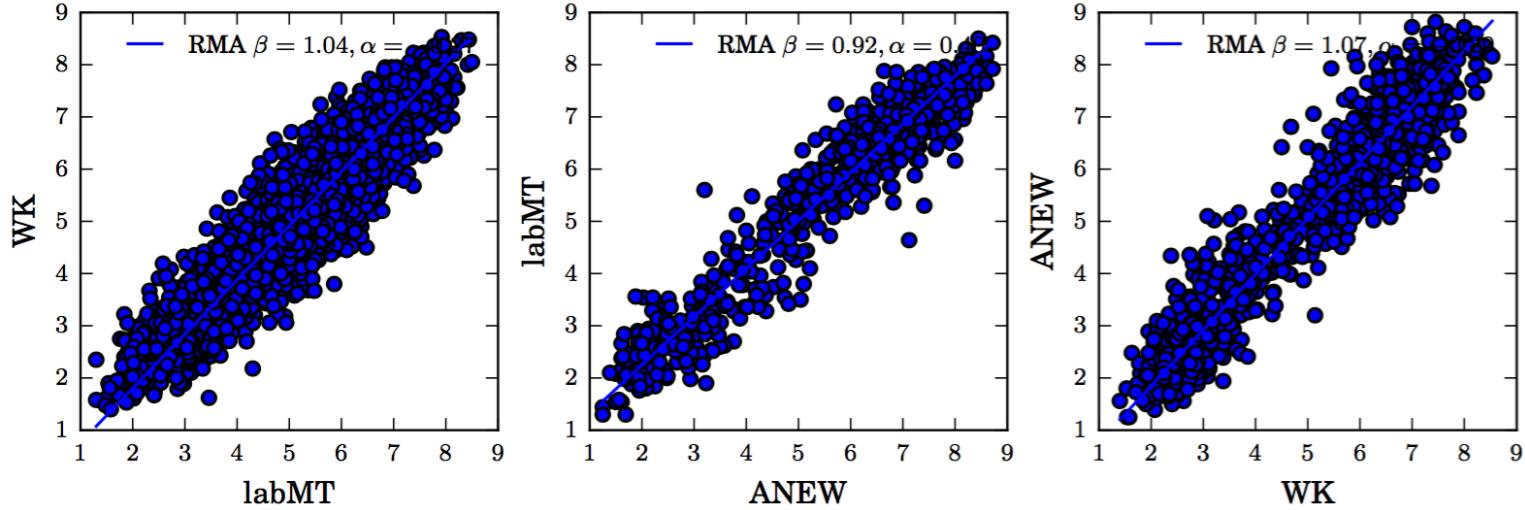


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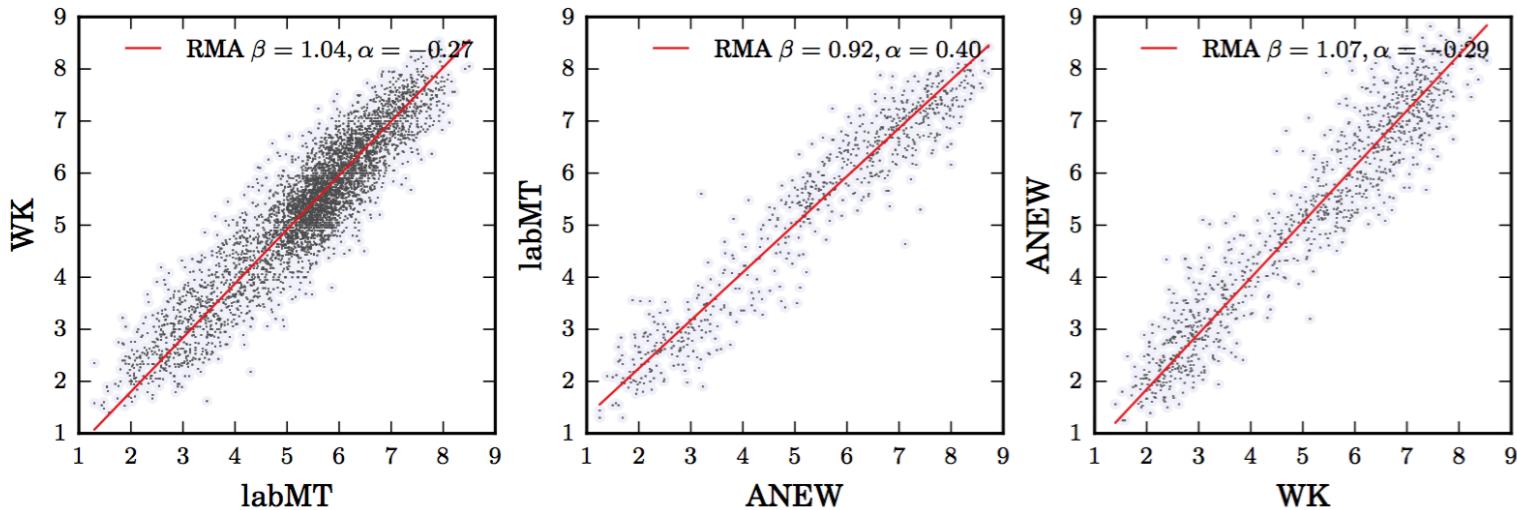


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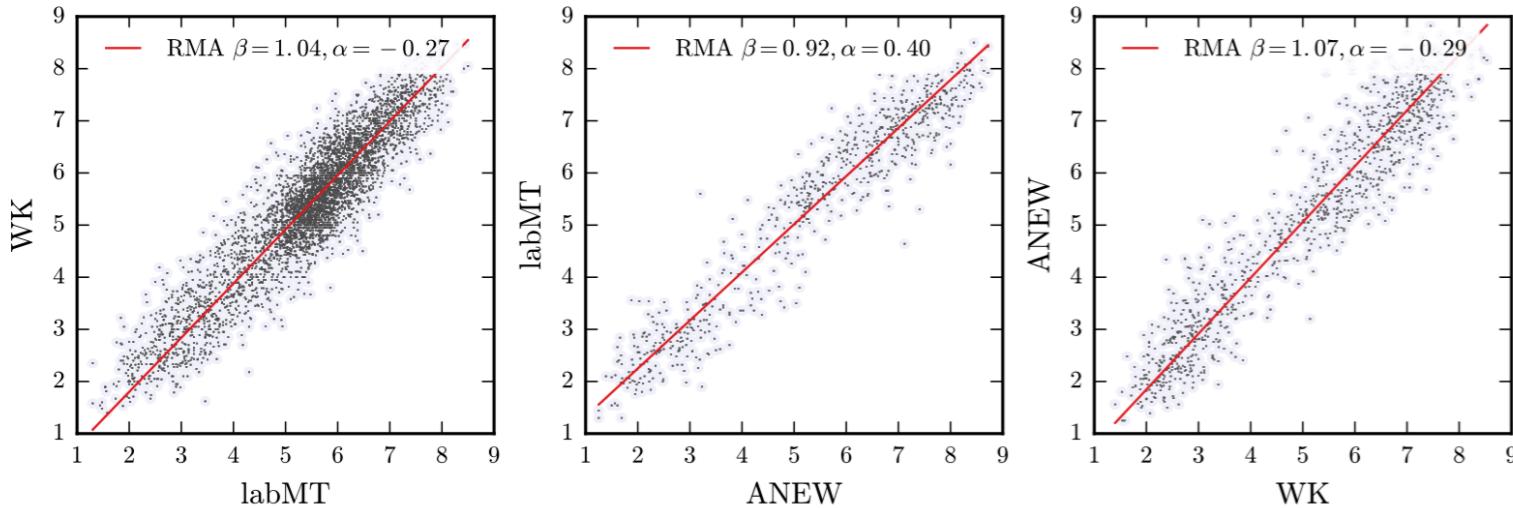


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```
# first
figure.figsize: 7, 3.5
figure.dpi: 600

# next, change the data range + ticks

# get the saving to be correct!
savefig.bbox: tight
font.size: 12
# font.family: sans-serif
# font.serif: Helvetica Neue
# text.usetex: False
xtick.labelsizes: 8
ytick.labelsizes: 8
# font.family: serif
font.family: cmr10
text.usetex: False
text.latex.preamble: \usepackage{hyperref}
text.latex.unicode: True

# legend tending
# also fixed the plt.subplots to be manual
legend.fontsize: 8
legend.frameon: True
legend.framealpha: 0.9
legend.edgecolor: white
legend.fancybox: True
```

```
legend.loc: upper left
axes.labelsize: 10

# fix the sizes, and the colors
# and turn down the labelsize from 12 (above) to 10
lines.linewidth: 0.75
axes.prop_cycle: cycler('color',
['#e41a1c', '#377eb8', '#4daf4a', '#984ea3', '#ff7f00', '#ffff33', '#a65628', '#f781bf'
])

# get the marks to be on par
scatter.markeredgewidth: 0.0
scatter.markersize: 0.0
scatter.marker: cycler('marker', [{alpha:0.9,marker:'o',c:'#F0F0FA',s:12},
                                  {alpha:0.9,marker:'o',c:'#4D4D4D',s:1}])
```

Published

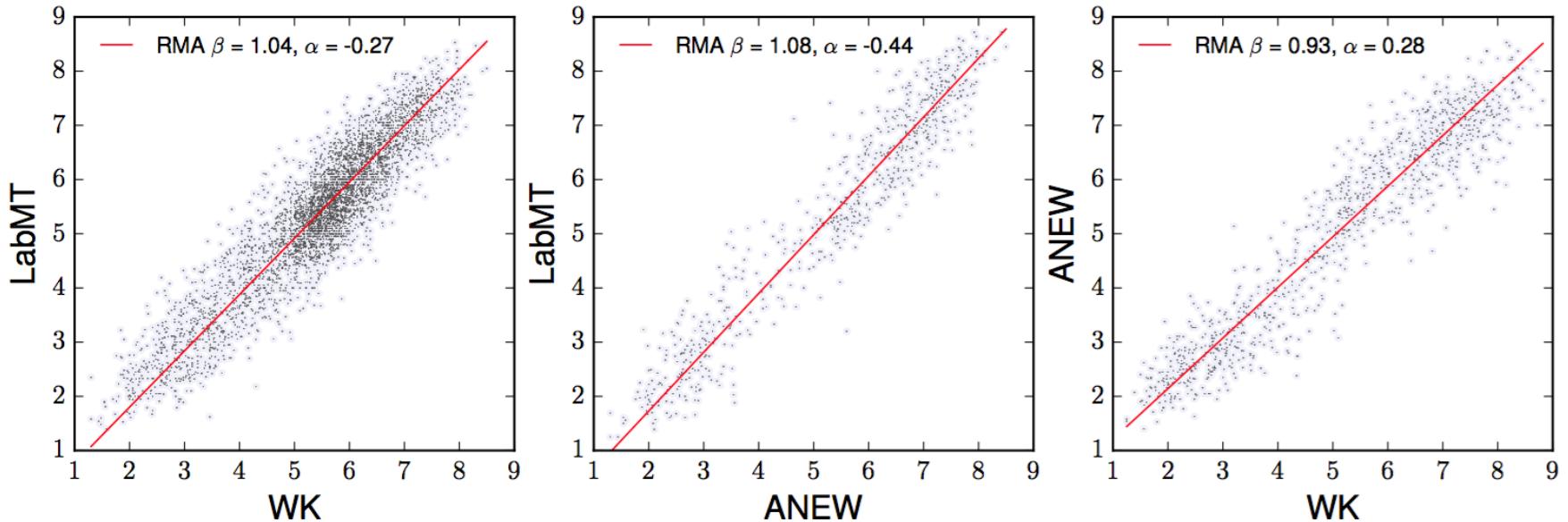


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