

A Collusion of Treasured Tweeds: The TransforMitt Compendium*

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TR 2012-1029-12, August 2012

1 Introduction

Throughout August 2012, I embarked on an art project: parodying the tweets of Mitt Romney during his 2012 election campaign. The parodies were computer-generated and the transformed tweets were posted to a Twitter feed called “TransforMitt” that I had set up for this purpose. While the project will be written up from a higher-level point of view later, the purpose of this report is simply to document the project so that a permanent record exists.

2 Transformation Engines

There were four main transformation engines used, all written in Python. In order from oldest to newest, they are described below.

2.1 works1

The local dictionary used by works1 seems like an odd, convoluted choice; it is related to the original problem I was trying to solve – TransforMitt came about by accident – rather than being a deliberate design choice tailored to TransforMitt. The dictionary contains 18,216 words that resulted from a three-step process:

1. The words in `/usr/share/dict/words` on Scientific Linux were filtered to remove words that were not all lowercase, that had non-alphabetic characters, that

*“A collection of transformed tweets” via the transform-ld50k engine.

had less than two syllables,¹ and whose syllables were less than 2 or greater than 4 characters long. A data structure was built to track which syllables followed which other syllables, and syllables that occurred with low frequency were discarded. This is the procedure described in [2].

2. The complete set of possible 2-, 3-, and 4-syllable words was regenerated from the data structure, as done for the work in [1].
3. The words in that set that appeared in an online dictionary were used for the works1 wordlist.

For a word w to be replaced, each candidate word c in the local dictionary was scored as follows.² The individual characters in c and w are denoted c_1, c_2, \dots, c_n and w_1, w_2, \dots, w_n respectively; n is $|w|$, and the works1 engine only considered c where $|c| = |w|$. In addition, some word suffixes were treated specially: if w ended with -ly, -ed, -ing, -e, or -es, then c had to as well. Conversely, if w did *not* end with one of these, then c could not either.

- -25 if c is equal to w .
- +4 if $DM(c_1) = DM(w_1)$. The DM function yields the primary code of double metaphone [6].³
- +4 if $DM(c_n) = DM(w_n)$.
- +2 for each i such that $DM(w_i) = DM(c_j)$ for some j , $1 \leq i \leq n$, $1 \leq j \leq n$.
- +5 if the number of syllables in c and w are the same.

The candidate word or words with the best score was/were taken as the shortlist, and a selection of the final replacement word was made pseudorandomly from the shortlist using a uniform distribution.

2.2 transform

This is an almost complete rewrite of the works1 engine, using the same dictionary. There are eight methods used to select replacement candidates, ordered by their (typical) performance from best to worst below. Once shortlists have been generated for each of the methods, one shortlist is chosen using a Zipf distribution to bias towards the better-performing ones, and a final replacement word is chosen from that shortlist pseudorandomly with a uniform distribution. Again, w is the word to be replaced, with characters w_1, w_2, \dots, w_n , where $n = |w|$; c is a candidate word with characters c_1, c_2, \dots, c_m , where $m = |c|$. Note that m does not have to equal n .

¹All engines used Liang's hyphenation algorithm [5] to break words into syllables.

²The scoring values were arrived at through experimentation.

³Passing in single characters to double metaphone is not how it expects its input; I was using it to get a quick mapping between characters like "d" and "t."

1. $c \in \text{Tr}_{d \geq 2}(w)$. The function $\text{Tr}_{d \geq 2}$ returns the set of all words formed by transposing two characters in w that are a distance of 2 or more apart, e.g., w_1 with w_3, w_4, \dots, w_n .
2. $c \in \text{ED}_1(w)$. ED_1 returns the set of words that are an edit distance of 1 apart from w . This includes deleting one character, inserting one character, replacing one character with another, and transposing two adjacent characters.
3. $\text{CV}(c) = \text{CV}(w)$. CV is the Caverphone 2.0 phonetic algorithm [4], which I modified by omitting the last three steps ('remove all 3s,' 'put ten 1s on the end,' and 'take the first ten characters as the code'); I refer to this as "modified Caverphone" below.
4. $\text{CV}(c) \in \text{ED}_1(\text{CV}(w))$.⁴
5. c such that $\text{SSS}(w, c)$ and $\text{SES}(w, c)$ are both true. SSS is true if the modified Caverphone representations match up to and including the end of the first consonant found in $\text{CV}(w)$. SES is true if the modified Caverphone representations match from the start of the last consonant in $\text{CV}(w)$ until the end.⁵
6. c such that $\text{SSS}(w, c)$ is true, if w has a special suffix.
7. c such that $\text{SES}(w, c)$ is true, if w does not have a special suffix.
8. c such that $\text{DM}(c_1) = \text{DM}(w_1)$ and $\text{DM}(c_m) = \text{DM}(w_n)$ and n is within ± 2 of the number of values of i for which $\text{DM}(w_i) = \text{DM}(c_j)$ for some j , $1 \leq i \leq n$, $1 \leq j \leq m$. This "2" value is called the Cambridge delta below.

w was added as a final "shortlist" so there would always be some word to choose. For the latter five methods, the number of syllables in c and w had to match. More minor changes include reducing the list of special suffixes to only -ly, -ed, and -ing.

2.3 transform-livedict

This engine is the same as transform, with one exception. Given a word w for replacement, all words in $\text{Tr}_{d \geq 2}(w)$ and $\text{ED}_1(w)$ are looked up in an online dictionary to find possible candidate words. The rationale was that the online, i.e., larger, dictionary might offer some good replacements that the smaller local dictionary would not contain. If found, these words are placed on the corresponding shortlists that the transform engine used.

2.4 transform-ld50k

The starting point for this engine was transform-livedict. The local dictionary was changed to a list of the top 50,000 English words by frequency [3]; filtering left

⁴In principle. When I wrote this report, I discovered a bug that meant this step was only considering the edit distance of deletions and transpositions. Oops.

⁵The letter "y" was treated as a vowel.

29,590 words (filtering removed words that weren't all lowercase, that contained non-alphabetic characters, and that weren't found in the online dictionary).

Apart from that, there were three main changes to improve the output:

1. The Cambridge delta was adjusted to 1, to try and curtail how far removed some suggested replacement words were from the original.
2. The original word was being chosen too often as a replacement, so transform-ld50k only adds the original word if there are no replacement words found at all.
3. The suggested replacements were often too short or too long. In theory this shouldn't have been the case: transform(-livedict) checked to see if the number of syllables of the original word and its replacement matched. However, the hyphenation algorithm I used to break words into syllables didn't always do a good job. Instead, transform-ld50k verifies three things:
 - (a) The number of syllables matches.
 - (b) The number of characters in the words is the same, ± 3 .
 - (c) The length of the words' modified Caverphone representation is the same, ± 1 .

3 Tweets

All the tweets generated during the project are listed in this section. The format is

URL of original tweet
Text from original tweet, with *emphasis* added to show which words were replaced. \Rightarrow Transformed tweet.

Statistics and transformation engine used, along with any tweet-specific comments. This is followed by a table listing the replaced words (left-hand side) and their replacements (right-hand side), along with their modified Caverphone representations – this helps show why the transformation engine decides that certain replacement words are similar.

When counting words in the original text, we define a word as “text surrounded by space,” meaning that “ & ” and “ foo-bar ” would each count as one word. The minimum word length to replace was chosen consistently within each individual tweet, but varies throughout as I was experimenting to find the best word length (or number of words) to select.

<https://twitter.com/MittRomney/status/229929466305056769>

‘I *promise* to make *America* a job-creating machine. With the right kind of *leadership*, we can get *America* back.’ ⇒ I posture to make *Erotica* a job-gyrating manacle. With the right kind of *dealership*, we can get *Erotica* back.

Tried to replace 6 out of 19 words (32%), using minimum word length 7 with works1 transformation engine.

america	AM3R3KA	erotica	AR3T3KA
creating	KR33T3NK	gyrating	K3R3T3NK
leadership	L33T3S3P	dealership	T33L3S3P
machine	M3K3N	manacle	M3N3KA
promise	PR3M3S	posture	P3ST3A

<https://twitter.com/MittRomney/status/227847712949809152>

‘Freedom, hard work & *innovation* build *successful* *businesses*.’ ⇒ Freedom, hard work & intonation build scrofulous pastorates.

Tried to replace 3 out of 8 words (38%), using minimum word length 10 (≥8 specified) with works1 transformation engine.

businesses	P3S3N3S3S	pastorates	P3ST3R3T3S
innovation	AN3F3S33N	intonation	ANT3N3S33N
successful	S3KS3SF3A	scrofulous	SKR3F3L33S

<https://twitter.com/MittRomney/status/230447178705944576>

‘From *experience* I know how we can restore *economic* *security*, and as *president*, that will be my *priority*.’ ⇒ From exurbanite I know how we can restore operatic voracity, and as presenter, that will be my polarity.

Tried to replace 5 out of 18 words (28%), using minimum word length 8 with works1 transformation engine.

economic	AK3N3M3K	operatic	AP3R3T3K
experience	AKP3R33NK	exurbanite	AK3P3N3T
president	PR3S3T3NT	presenter	PR3S3NT3A
priority	PR33R3TA	polarity	P3L3R3TA
security	S3K3R3TA	voracity	F3R3S3TA

<https://twitter.com/MittRomney/status/227529803270602752>

‘I’m honored and humbled to receive the *endorsement* of a large list of veteran *national commanders* today.’ ⇒ ‘I’m honored and humbled to receive the uncommonest of a large list of veteran notional cafeterias today.’

Tried to replace 3 out of 17 words (18%), using minimum word length 8 with works1 transformation engine.

commanders	K3M3NT3S	cafeterias	K3F3T3R33S
endorsement	ANT3S3M3NT	uncommonest	ANK3M3N3ST
national	N3S33N3A	notional	N3S33N3A

<https://twitter.com/MittRomney/status/230752898269736962>

‘The *American* economy is fueled by freedom, the only *principle* that has ever created *sustained prosperity*.’ ⇒ ‘The Airwoman economy is fueled by freedom, the only bespangle that has ever created surprised perversity.’

Tried to replace 4 out of 16 words (25%), using minimum word length 8 with works1 transformation engine.

american	AM3R3K3N	airwoman	A3W3M3N
principle	PR3NS3PA	bespangle	P3SP3NKA
prosperity	PR3SP3R3TA	perversity	P3F3S3TA
sustained	S3ST33N3T	surprised	S3PR3S3T

<https://twitter.com/MittRomney/status/230714034259898369>

‘Hope and change has been *anything* but kind.’ ⇒ ‘Hope and change has been abutting but kind.’

Tried to replace 1 out of 8 words (13%), using minimum word length 8 with works1 transformation engine.

anything	AN3T3NK	abutting	AP3T3NK
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<https://twitter.com/MittRomney/status/228569701524070400>

‘*Recently*, @BarackObama proudly *proclaimed* that his *economic* plan had ”worked.” No Mr. *President*, it did not work’ ⇒ ‘Recently, @BarackObama proudly percolated that his intimacy plan had ”worked.” No Mr. Paternity, it did not work’

Tried to replace 4 out of 17 words (24%), using minimum word length 8 with works1 transformation engine.

economic	AK3N3M3K		intimacy	ANT3M3SA
president	PR3S3T3NT		paternity	P3T3N3TA
proclaimed	PR3KL33M3T		percolated	P3K3L3T3T
recently	R3S3NTLA		recently	R3S3NTLA

<https://twitter.com/MittRomney/status/231136184011739136>

‘My plan for a *stronger* middle class will get America back to work and ensure a better future for all *Americans*’ ⇒ My plan for a avenger middle class will get America back to work and ensure a better future for all Americans

Tried to replace 2 out of 21 words (10%), using minimum word length 8 with transform transformation engine. There is no postpass grammar correction for “a” and “an,” although it could be added.

americans	AM3R3K3NS		americans	AM3R3K3NS
stronger	STR3NK3A		avenger	AF3NK3A

<https://twitter.com/MittRomney/status/231733968838488064>

‘Download the app and you’ll get the news *first* when the VP is *chosen*’ ⇒ Defraud the app and you’ll get the news fist when the VP is chicken

Tried to replace 3 out of 14 words (21%), using minimum word length 5 with transform-ld50k transformation engine.

chosen	K3S3N		chicken	K3K3N
download	T3NL33T		defraud	T3FR33T
first	F3ST		fist	F3ST

<https://twitter.com/MittRomney/status/232132899632209920>

‘My plan will build a *stronger* middle class with more jobs’ ⇒ My plan will build a stringy middle class with more jobs

Tried to replace 1 out of 11 words (9%), using minimum word length 8 with transform-ld50k transformation engine.

stronger	STR3NK3A		stringy	STR3NKA
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<https://twitter.com/MittRomney/status/232504893888417792>

‘The *greatness* of America was built on working to *overcome hardship*’ ⇒ The crustiness of America was built on working to tiresome wardship

Tried to replace 3 out of 11 words (27%), using minimum word length 8 with transform transformation engine.

greatness	KR33TN3S	crustiness	KR3ST3N3S
hardship	A3TS3P	wardship	W3TS3P
overcome	AF3K3M	tiresome	T3R3S3M

<https://twitter.com/MittRomney/status/224555306343075840>

‘With all of @BarackObama’s *inaccurate* and *negative attacks*, where’s the hope and change?’ ⇒ With all of @BarackObama’s indefinite and seductive topics, where’s the hope and change?

Tried to replace 3 out of 13 words (23%), using minimum word length 7 with transform-ld50k transformation engine.

attacks	AT3KS	topics	T3P3KS
inaccurate	AN3K3R3T	indefinite	ANT3F3N3T
negative	N3K3T3F	seductive	S3T3KT3F

<https://twitter.com/MittRomney/status/232837259915825154>

‘It’s time to restore *bipartisan* reforms to welfare and move our country in the right *direction*’ ⇒ It’s time to restore titillation reforms to welfare and move our country in the right diversion

Tried to replace 2 out of 16 words (13%), using minimum word length 9 (≥8 specified) with transform-livedict transformation engine.

bipartisan	P3P3T3S3N	titillation	T3T3L3S33N
direction	T3R3KS33N	diversion	T3F3S33N

<https://twitter.com/MittRomney/status/233181214469652480>

‘.@BarackObama’s *gutting* of *welfare* reform is out of step with the *country*, his party, and even his own @VP’ ⇒ .@BarackObama’s cutting of waffle reform is out of step with the gentry, his party, and even his own @VP

Tried to replace 3 out of 19 words (16%), using minimum word length 7 with transform-ld50k transformation engine.

country	K33NTRA		gentry	K3NTRA
gutting	K3T3NK		cutting	K3T3NK
welfare	W3F3A		waffle	W3FA

<https://twitter.com/MittRomney/status/233547009812996096>

‘As *president*, I will stand up and protect *religious* freedom whenever it is *threatened*’ ⇒ As precedent, I will stand up and protect ostriches freedom wherever it is trampled

Tried to replace 4 out of 14 words (29%), using minimum word length 8 with transform-ld50k transformation engine. “Ostriches” should have been a possessive plural, but that would have been difficult to detect and adjust automatically.

president	PR3S3T3NT		precedent	PR3S3T3NT
religious	R3L3K333S		ostriches	ASTR3K3S
threatened	TR33T3N3T		trampled	TR3MPL3T
whenever	W3N3F3A		wherever	W3R3F3A

<https://twitter.com/MittRomney/status/225016560828428288>

‘We need a plan to fix our economy, not 4 more years of *political* payoffs & wasted *taxpayer* dollars’ ⇒ We need a plan to fix our economy, not 4 more years of maniacal payoffs & wasted typewriter dollars

Tried to replace 2 out of 19 words (11%), using minimum word length 8 with transform-ld50k transformation engine.

political	P3L3T3K3A		maniacal	M3N33K3A
taxpayer	T3KP333A		typewriter	T3P3R3T3A

<https://twitter.com/MittRomney/status/220182704401039361>

‘.@BarackObama *promised* he would lower *unemployment*, but hasn’t *delivered*. Middle-class has *suffered the consequences*’ ⇒ .@BarackObama promises he would lower enlightenment, but hasn’t deflated. Middle-class has severed the consciousness

Tried to replace 5 out of 14 words (36%), using minimum word length 8 with transform-ld50k transformation engine.

consequences	K3NS3K33NS3S	consciousness	K3NS333SN3S
delivered	T3L3F3R3T	deflated	T3FL3T3T
promised	PR3M3S3T	promises	PR3M3S3S
suffered	S3F3R3T	severed	S3F3R3T
unemployment	AN3MPL33M3NT	enlightenment	ANL3T3NM3NT

<https://twitter.com/MittRomney/status/221350595037102080>

‘Sign the *petition* and stand with me if you believe these high *unemployment* numbers are *unacceptable*’ ⇒ Sign the *perdition* and stand with me if you believe these high *inconvenient* numbers are *inexplicable*

Tried to replace 3 out of 16 words (19%), using minimum word length 8 with transform-ld50k transformation engine.

petition	P3T3S33N	perdition	P3T3S33N
unacceptable	AN3KS3PT3PA	inexplicable	AN3KPL3K3PA
unemployment	AN3MPL33M3NT	inconvenient	ANK3NF3N33NT

<https://twitter.com/MittRomney/status/221290133612269568>

‘The same old ideas of the past that have *failed*. My plan calls for *action* & will *create* jobs.’ ⇒ The same old ideas of the past that have *flailed*. My plan calls for *faction* & will *cremate* jobs.

Tried to replace 3 out of 19 words (16%), using minimum word length 6 with transform-ld50k transformation engine.

action	AKS33N	faction	F3KS33N
create	KR33T	cremate	KR3M3T
failed	F33L3T	flailed	FL33L3T

<https://twitter.com/MittRomney/status/233973081801121792>

‘America *deserves* better than a *president* who will do *anything* to stay in power’ ⇒ America *dissolves* better than a *competent* who will do *uniting* to stay in power

Tried to replace 3 out of 14 words (21%), using minimum word length 8 with transform-ld50k transformation engine.

anything	AN3T3NK	uniting	AN3T3NK
deserves	T3S3F3S	dissolves	T3S3F3S
president	PR3S3T3NT	competent	K3MP3T3NT

<https://twitter.com/MittRomney/status/234253751995736064>

‘I am *proud* to *announce* @PaulRyanVP as my VP.’ ⇒ I am *lurid* to *renounce* @PaulRyanVP as my VP.

Tried to replace 2 out of 9 words (22%), using minimum word length 5 with transform-ld50k transformation engine.

announce	AN33NK	renounce	R3N33NK
proud	PR33T	lurid	L3R3T

<https://twitter.com/MittRomney/status/234342451505147904>

‘*Excited* to share our vision of a *brighter* future’ ⇒ Excised to share our vision of a *bridal* future

Tried to replace 2 out of 9 words (22%), using minimum word length 7 with transform-ld50k transformation engine.

brighter	PR3T3A	bridal	PR3T3A
excited	AKS3T3T	excised	AKS3S3T

<https://twitter.com/MittRomney/status/234641455120015361>

‘Higher *unemployment*, *declining* incomes, and *crushing* debt is not a new normal. America needs a *comeback*’ ⇒ Higher *embarrassment*, *reclining* incomes, and *cursing* debt is not a new normal. America needs a *cheesecake*

Tried to replace 4 out of 16 words (25%), using minimum word length 8 with transform-ld50k transformation engine.

comeback	K3M3P3K	cheesecake	K33S3K3K
crushing	KR3S3NK	cursing	K3S3NK
declining	T3KL3N3NK	reclining	R3KL3N3NK
unemployment	AN3MPL33M3NT	embarrassment	AMP3R3SM3NT

<https://twitter.com/MittRomney/status/234788660082511872>

‘If your *priority* is *creating* more jobs and putting more people to work, that’s what we know how to do.’ ⇒ If your *profanity* is covering more jobs and putting more people to work, that’s what we know how to do.

Tried to replace 2 out of 20 words (10%), using minimum word length 8 with transform-ld50k transformation engine.

creating	KR33T3NK		covering	K3F3R3NK
priority	PR33R3TA		profanity	PR3F3N3TA

<https://twitter.com/MittRomney/status/234832253493059587>

‘Unbelievable crowd in WI tonight. Great to be with @PaulRyanVP for his <i>homecoming</i> ’	⇒	Undesirable crowd in WI tonight. Great to be with @PaulRyanVP for his <i>homecoming</i>
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Tried to replace 2 out of 13 words (15%), using minimum word length 10 (≥8 specified) with transform-ld50k transformation engine. There were no replacements found for “homecoming.”

homecoming	A3M3K3M3NK		homecoming	A3M3K3M3NK
unbelievable	ANP3L33F3PA		undesirable	ANT3S3R3PA

<https://twitter.com/MittRomney/status/234991840389111808>

‘.@BarackObama has a long history of <i>opposing</i> work for welfare. As <i>president</i> , I will put work back in welfare’	⇒	.@BarackObama has a long history of <i>apposing</i> work for welfare. As <i>ambivalent</i> , I will put work back in welfare
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Tried to replace 2 out of 19 words (11%), using minimum word length 8 with transform-ld50k transformation engine.

opposing	AP3S3NK		apposing	AP3S3NK
president	PR3S3T3NT		ambivalent	AMP3F3L3NT

<https://twitter.com/MittRomney/status/235449594320932864>

‘As <i>president</i> , I will protect the <i>commitments</i> made to current seniors’	⇒	As <i>discordant</i> , I will protect the <i>underpants</i> made to current seniors
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Tried to replace 2 out of 11 words (18%), using minimum word length 9 (≥8 specified) with transform-ld50k transformation engine.

commitments	K3M3TM3NTS		underpants	ANT3P3NTS
president	PR3S3T3NT		discordant	T3SK3T3NT

<https://twitter.com/MittRomney/status/235835523816640512>

‘Mr. *President*, take your *campaign* of *division* and anger and hate back to Chicago’ ⇒ Mr. Excellent, take your redesign of dandelion and anger and hate back to Chicago

Tried to replace 3 out of 14 words (21%), using minimum word length 8 with transform-ld50k transformation engine.

campaign	K3MP33KN	redesign	R3T3S3KN
division	T3F3S33N	dandelion	T3NT3L33N
president	PR3S3T3NT	excellent	AKS3L3NT

<https://twitter.com/MittRomney/status/236267179505487872>

‘.@BarackObama has *proposed* no *meaningful* *Medicare* reforms & has failed to lead on fixing *Medicare* for future *retirees*’ ⇒ .@BarackObama has bypassed no meaningful Motorcar reforms & has failed to lead on fixing Motorcar for future retirees

Tried to replace 5 out of 18 words (28%), using minimum word length 8 with transform-ld50k transformation engine. There were no replacements found for “meaningful.”

meaningful	M33N3NKF3A	meaningful	M33N3NKF3A
medicare	M3T3K3A	motorcar	M3T3K3A
proposed	PR3P3S3T	bypassed	P3P3S3T
retirees	R3T3R33S	retires	R3T3R3S

<https://twitter.com/MittRomney/status/236587144167186432>

‘Enter now for a chance to go behind the scenes & be there when I accept the *nomination* in Tampa’ ⇒ Enter now for a chance to go behind the scenes & be there when I accept the *domination* in Tampa

Tried to replace 1 out of 20 words (5%), using minimum word length 10 (≥8 specified) with transform-ld50k transformation engine.

nomination	N3M3N3S33N	domination	T3M3N3S33N
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<https://twitter.com/MittRomney/status/236894200413683713>

‘Watch @PaulRyanVP talk about his mother’s small-*business*: ”Mom, You DID build that!”’ ⇒ Watch @PaulRyanVP talk about his mother’s small-bushiness: ”Mom, You DID build that!”’

Tried to replace 1 out of 12 words (8%), using minimum word length 8 with transform-ld50k transformation engine.

business P3S3N3S | bushiness P3S3N3S

<https://twitter.com/MittRomney/status/237325556566351873>

‘Watch @PaulRyanVP speak of our *commitment* of *ensuring* the promise of America for not only this *generation*, but the next’ ⇒ Watch @PaulRyanVP speak of our concealment of enduring the promise of America for not only this competition, but the next

Tried to replace 3 out of 20 words (15%), using minimum word length 8 with transform-ld50k transformation engine.

commitment K3M3TM3NT | concealment K3NS33M3NT
ensuring ANS3R3NK | enduring ANT3R3NK
generation K3N3R3S33N | competition K3MP3T3S33N

<https://twitter.com/MittRomney/status/237358353511239680>

‘.@PaulRyanVP and I will provide the *leadership* that will get this economy growing and get America back on track’ ⇒ .@PaulRyanVP and I will provide the ladyship that will get this economy growing and get America back on track

Tried to replace 1 out of 19 words (5%), using minimum word length 10 (≥8 specified) with transform-ld50k transformation engine.

leadership L33T3S3P | ladyship L3T3S3P

<https://twitter.com/MittRomney/status/237664208400031746>

‘My plan for a *stronger* middle class will put work back in welfare’ ⇒ My plan for a stricter middle class will put work back in welfare

Tried to replace 1 out of 13 words (8%), using minimum word length 8 with transform-ld50k transformation engine.

stronger STR3NK3A | stricter STR3KT3A

<https://twitter.com/MittRomney/status/237912506687963136>

‘In America, the outcome may not be *guaranteed*, but the *opportunity* is’ ⇒ In America, the outcome may not be centralized, but the difficulty is

Tried to replace 2 out of 12 words (17%), using minimum word length 10 (≥8 specified) with transform-ld50k transformation engine.

guaranteed K33R3NT33T | centralized S3NTR3L3S3T
opportunity AP3T3N3TA | difficulty T3F3K3TA

<https://twitter.com/MittRomney/status/238254217540820992>

‘Some think *Obamacare* is the same as free *healthcare* - but this *healthcare* law has come at a very high price’ ⇒ Some think Pedicure is the same as free hardcore - but this hardcore law has come at a very high price

Tried to replace 3 out of 21 words (14%), using minimum word length 9 (≥8 specified) with transform-ld50k transformation engine. “Hardcore” is the only replacement found for “healthcare.”

healthcare A33TK3A | hardcore A3TK3A
obamacare AP3M3K3A | pedicure P3T3K3A

<https://twitter.com/MittRomney/status/238040020429193217>

‘*Appreciate* the support of the *delegates formerly* pledged to @newtgingrich’ ⇒ Interrogate the support of the dialects funnily pledged to @newtgingrich

Tried to replace 3 out of 10 words (30%), using minimum word length 8 with transform-ld50k transformation engine.

appreciate APR3S33T | interrogate ANT3R3K3T
delegates T3L3K3T3S | dialects T33L3K3TS
formerly F3M3LA | funnily F3N3LA

<https://twitter.com/MittRomney/status/238359327180722176>

‘After @BarackObama gutted welfare reform last month, there isn’t much to *celebrate* on its 16th *anniversary* today’ ⇒ After @BarackObama gutted welfare reform last month, there isn’t much to *cerebrate* on its 16th *embroidery* today

Tried to replace 2 out of 17 words (12%), using minimum word length 9 (≥8 specified) with transform-ld50k transformation engine.

anniversary	AN3F3S3RA	embroidery	AMPR33T3RA
celebrate	S3L3PR3T	cerebrate	S3R3PR3T

<https://twitter.com/MittRomney/status/238401950247440384>

‘On welfare reform’s 16th *anniversary*, it’s clear that @BarackObama still doesn’t support the *bipartisan achievement*’ ⇒ On welfare reform’s 16th *effrontery*, it’s clear that @BarackObama still doesn’t support the *irrigation constituent*

Tried to replace 3 out of 15 words (20%), using minimum word length 10 (≥8 specified) with transform-ld50k transformation engine.

achievement	AK33F3M3NT	constituent	K3NST3T33NT
anniversary	AN3F3S3RA	effrontery	AFR3NT3RA
bipartisan	P3P3T3S3N	irrigation	AR3K3S33N

<https://twitter.com/MittRomney/status/238625283408805889>

‘.@PaulRyanVP and I want to give you the *opportunity* to join us in OH this *Saturday*! Enter now before it’s too late’ ⇒ .@PaulRyanVP and I want to give you the *immortality* to join us in OH this *Severity*! Enter now before it’s too late

Tried to replace 2 out of 22 words (9%), using minimum word length 8 with transform-ld50k transformation engine.

opportunity	AP3T3N3TA	immortality	AM3T3L3TA
saturday	S3T3T3A	severity	S3F3R3TA

<https://twitter.com/MittRomney/status/238684068592644097>

‘Under @BarackObama, we’ve seen new *barriers* to energy *production* & failure to take *advantage* of America’s *resources*’ ⇒ Under @BarackObama, we’ve seen new carriers to energy prevention & failure to take admittance of America’s freckles

Tried to replace 4 out of 17 words (24%), using minimum word length 8 with transform-ld50k transformation engine.

advantage	ATF3NT3K	admittance	ATM3T3NK
barriers	P3R33S	carriers	K3R33S
production	PR3T3KS33N	prevention	PR3F3NS33N
resources	R3S33S3S	freckles	FR3KL3S

<https://twitter.com/MittRomney/status/238706364187303936>

‘My plan for Energy *Independence* will deliver more jobs & more take-home pay for middle-class *families*’ ⇒ My plan for Energy Indifference will deliver more jobs & more take-home pay for middle-class studies

Tried to replace 2 out of 16 words (13%), using minimum word length 8 with transform-ld50k transformation engine.

families	F3M3L33S	studies	ST3T33S
independence	ANT3P3NT3NK	indifference	ANT3F3R3NK

<https://twitter.com/MittRomney/status/238727664976920576>

‘Incomes down sharply in the *imaginary recovery* @BarackObama touts. We can do better’ ⇒ Incomes down sharply in the impregnable raspberry @BarackObama touts. We can do better

Tried to replace 2 out of 13 words (15%), using minimum word length 8 with transform-ld50k transformation engine.

imaginary	AM3K3N3RA	impregnable	AMPR3KN3PA
recovery	R3K3F3RA	raspberry	R3SP3RA

<https://twitter.com/MittRomney/status/238748017333776385>

‘.@BarackObama’s war on coal has cost *Americans* jobs & raised energy prices’ ⇒ ‘.@BarackObama’s war on coal has cost Emissions jobs & raised energy prices’

Tried to replace 1 out of 12 words (8%), using minimum word length 9 (≥8 specified) with transform-ld50k transformation engine.

americans	AM3R3K3NS		emissions	AM3S33NS
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<https://twitter.com/MittRomney/status/239060585986273280>

‘I welcome the support of the *delegates formerly* pledged to @RickSantorum’ ⇒ ‘I welcome the support of the delegate fearfully pledged to @RickSantorum’

Tried to replace 2 out of 11 words (18%), using minimum word length 8 with transform-ld50k transformation engine. I had been considering adding a check to ensure that singular words didn’t become plural, and vice versa, but making the plural into singular works here.

delegates	T3L3K3T3S		delegate	T3L3K3T
formerly	F3M3LA		fearfully	F33F3LA

<https://twitter.com/MittRomney/status/239081000318144514>

‘I have spent my life turning around *troubled enterprises*, and I will bring these *experiences* to the White House’ ⇒ ‘I have spent my life turning around threatened aspirations, and I will bring these mercenaries to the White House’

Tried to replace 3 out of 19 words (16%), using minimum word length 8 with transform-ld50k transformation engine.

enterprises	ANT3PR3S3S		aspirations	ASP3R3S33NS
experiences	AKP3R33NS3S		mercenaries	M3S3N3R33S
troubled	TR33PL3T		threatened	TR33T3N3T

<https://twitter.com/MittRomney/status/239108812693450752>

‘Almost 5.2 million *Americans* have been out of work for at least 6 months in the *imaginary recovery* @BarackObama touts’ ⇒ ‘Almost 5.2 million Barbarians have been out of work for at least 6 months in the unattractive rectory @BarackObama touts’

Tried to replace 3 out of 20 words (15%), using minimum word length 8 with transform-ld50k transformation engine.

americans	AM3R3K3NS	barbarians	P3P3R33NS
imaginary	AM3K3N3RA	unattractive	AN3TR3KT3F
recovery	R3K3F3RA	rectory	R3KT3RA

<https://twitter.com/MittRomney/status/239399099806400512>

‘In the *imaginary recovery* ⇒ In the hereditary sanctuary
@BarackObama touts, @BarackObama touts,
manufacturing lost 562,000 manipulating lost 562,000
jobs & the sector is showing jobs & the sector is showing
signs of *weakness*.’ signs of wieners.

Tried to replace 4 out of 18 words (22%), using minimum word length 8 with transform-ld50k transformation engine. “Manipulating” is the only replacement found for “manufacturing.”

imaginary	AM3K3N3RA	hereditary	A3R3T3T3RA
manufacturing	M3N3F3KT3R3NK	manipulating	M3N3P3L3T3NK
recovery	R3K3F3RA	sanctuary	S3NKT33RA
weakness	W33KN3S	wieners	W33N3S

<https://twitter.com/MittRomney/status/239505461664153600>

‘I applaud those in Tampa ⇒ I applaud those in Tampa
making *appropriate schedule* making elaborate twitter
changes.’ changes.

Tried to replace 2 out of 9 words (22%), using minimum word length 8 with transform-ld50k transformation engine. Given the medium, this one was too good to pass up.

appropriate	APR3PR33T	elaborate	AL3P3R3T
schedule	SK3T3A	twitter	TW3T3A

<https://twitter.com/MittRomney/status/239739259463024644>

‘In 2008, @BarackObama ⇒ In 2008, @BarackObama
attacked John McCain for atoned John McCain for
proposing cuts to *Medicare*, praising cuts to Marmalade,
but now @BarackObama cut but now @BarackObama cut
Medicare by \$716b’ Marmalade by \$716b

Tried to replace 4 out of 18 words (22%), using minimum word length 8 with transform-ld50k transformation engine.

attacked	AT3K3T	atoned	AT3N3T
medicare	M3T3K3A	marmalade	M3M3L3T
proposing	PR3P3S3NK	praising	PR3S3NK

<https://twitter.com/MittRomney/status/240526230254923779>

‘When you attack success like @BarackObama has, you will see less of it. *Celebrate* your *achievements*’ ⇒ ‘When you attack success like @BarackObama has, you will see less of it. Serenade your sweatpants’

Tried to replace 2 out of 16 words (13%), using minimum word length 9 (≥8 specified) with transform-ld50k transformation engine.

achievements	AK33F3M3NTS	sweatpants	SW33TP3NTS
celebrate	S3L3PR3T	serenade	S3R3N3T

<https://twitter.com/MittRomney/status/240565049675108352>

‘If you have a *business* and you started it, you did build it. And you deserve credit for that’ ⇒ ‘If you have a bookcase and you started it, you did build it. And you deserve credit for that’

Tried to replace 1 out of 19 words (5%), using minimum word length 8 with transform-ld50k transformation engine.

business	P3S3N3S	bookcase	P33K3S
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<https://twitter.com/MittRomney/status/240595831437275138>

‘Small *businesses* are the *lifeblood* of our economy. Be proud of your success’ ⇒ ‘Small buffaloes are the lifeboat of our economy. Be proud of your success’

Tried to replace 2 out of 13 words (15%), using minimum word length 9 (≥8 specified) with transform-ld50k transformation engine.

businesses	P3S3N3S3S	buffaloes	P3F3L33S
lifeblood	L3F3PL33T	lifeboat	L3F3P33T

<https://twitter.com/MittRomney/status/240919648856576000>

‘We have 23 million *Americans* today that are out of work or *underemployed*’ ⇒ ‘We have 23 million Pelicans today that are out of work or underemployed’

Tried to replace 2 out of 13 words (15%), using minimum word length 9 (≥ 8 specified) with transform-ld50k transformation engine. There were no alternative suggestions for “underemployed.”

americans	AM3R3K3NS		pelicans	P3L3K3NS
underemployed	ANT3R3MPL333T		underemployed	ANT3R3MPL333T

<https://twitter.com/MittRomney/status/240941830060011520>

‘.@PaulRyanVP is a man of *tremendous character*, and I look forward to hearing him speak tonight’ \Rightarrow .@PaulRyanVP is a man of delirious conjecture, and I look forward to hearing him speak tonight

Tried to replace 2 out of 16 words (13%), using minimum word length 9 (≥ 8 specified) with transform-ld50k transformation engine.

character	K3R3KT3A		conjecture	K3N33KT3A
tremendous	TR3M3NT33S		delirious	T3L3R333S

<https://twitter.com/MittRomney/status/240955810631520256>

‘After nearly 4 years of *declining* incomes and *skyrocketing* costs, *Americans* deserve better. Join me’ \Rightarrow After nearly 4 years of disrupting incomes and scavenging costs, Courtesans deserve better. Join me

Tried to replace 3 out of 15 words (20%), using minimum word length 9 (≥ 8 specified) with transform-ld50k transformation engine. “Scavenging” is the only replacement found for “skyrocketing.”

americans	AM3R3K3NS		courtesans	K33T3S3NS
declining	T3KL3N3NK		disrupting	T3SR3PT3NK
skyrocketing	SK3R3K3T3NK		scavenging	SK3F3NK3NK

<https://twitter.com/MittRomney/status/240958522286800898>

‘With the right steps & the right *leadership*, the 21st century can & will be an American century’ \Rightarrow With the right steps & the right censorship, the 21st century can & will be an American century

Tried to replace 1 out of 18 words (6%), using minimum word length 10 (≥ 9 specified) with transform-ld50k transformation engine. Ironically, the original tweet was deleted. (Upon further examination, it seemed to be a duplicate tweet from a few weeks earlier.)

leadership	L33T3S3P		censorship	S3NS3S3P
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<https://twitter.com/MittRomney/status/240977548681551872>

‘It is not only bad *economics* ⇒ It is not only bad dramatics to saddle future *generations* to saddle future corporations with a *mountain* of debt, it is immoral’ with a fountain of debt, it is immoral’

Tried to replace 3 out of 18 words (17%), using minimum word length 8 with transform-ld50k transformation engine.

economics	AK3N3M3KS	dramatics	TR3M3T3KS
generations	K3N3R3S33NS	corporations	K3P3R3S33NS
mountain	M33NT33N	fountain	F33NT33N

<https://twitter.com/MittRomney/status/241235548122013696>

‘Our Plan for a *Stronger* ⇒ Our Plan for a Stranger Middle Class will create 12 Middle Class will create 12 *million* new jobs & higher zillion new jobs & higher take-home pay’ take-home pay’

Tried to replace 2 out of 17 words (12%), using minimum word length 7 with transform-ld50k transformation engine.

million	M3L33N	zillion	S3L33N
stronger	STR3NK3A	stranger	STR3NK3A

4 Tweet and Replacement Statistics

Total number of transformed tweets: 59

	Minimum	Maximum	Mean	σ	Median
Replacement words in tweets	1	6	2.61	1.14	2.0
Words in original tweets	8	22	15.46	3.61	16.0
Percentage replacements	5	38	17.54	7.57	16.0
(Minimum) length of replaced words					
Actual	5	10	8.19	1.03	8.0
Specified	5	9	7.8	0.66	8.0

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