

## STATENAME LADDERS

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Word ladders have featured many times in the past in Word Ways, where a word is changed into a related word one letter at a time. A simple example is to turn LEAD into GOLD – thus, LEAD-LOAD-GOAD-GOLD. Another easy example is COLD-CORD-CARD-WARD-WARM.

More difficult ladders between connected words can be achieved by changing one letter at a time and then transposing the resulting letters. Each step on such a word ladder is effectively a substitute-letter transposal. Here's how to go from RIGHT to WRONG: RIGHT-GRIOT-GROIN-WRONG. And here's how PILGRIM and FATHERS can be connected: PILGRIM-IMPERIL-LIMITER-MALTIER-ARMLETS-FALTERS-FATHERS.

It occurred to me that it would be interesting to determine if a set of word ladders could be constructed connecting US statenames of the same length. There are three 4-letter statenames (Iowa, Ohio and Utah), which means there are three potential ladders: Iowa-Ohio, Iowa-Utah, and Ohio-Utah. Similarly, there are three 5-letter statenames (Idaho, Maine and Texas), again leading to three potential ladders. And so on up to statenames with 13 letters. All told, there are 139 different potential ladders connecting statenames of the same length. Below are examples for 133 of these ladders. In the table below, for each of the 133 ladders, I show the number of words in the shortest theoretically possible ladder, the number of words in the actual ladder I have offered, and the potential reduction in the number of steps between the shortest theoretically possible ladder and the actual ladder presented. I'm sure there is plenty of scope for reducing the length of many of the chains. Any reductions that readers can find would be welcomed by the editors.

A word about the six ladders I haven't been able to build. Four of the six nonexistent ladders involve MISSISSIPPI at one end or the other. There just doesn't seem to be any way to change a letter of MISSISSIPPI to get a ladder started or finished. And the other two nonexistent ladders involve MASSACHUSETTS. While there is a trans-substitution of MASSACHUSETTS (to SETSUMATSUSHA), there doesn't seem to be a further trans-substitution allowing progress further along the ladder. If anyone can overcome these problems, please let us know via the editors.

Words in shortest possible ladder	Words in actual ladder	Possible reduction in steps
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**4-letter states: Iowa, Ohio, Utah**

3	3	0	<b>Iowa</b>	ohia	<b>Ohio</b>			
4	4	0	<b>Iowa</b>	ohia	huia	<b>Utah</b>		
4	4	0	<b>Ohio</b>	ohia	huia	<b>Utah</b>		

**5-letter states: Idaho, Maine, Texas**

4	4	0	<b>Idaho</b>	danio	amino	<b>Maine</b>		
5	6	1	<b>Idaho</b>	dhoti	hoist	oaths	heats	<b>Texas</b>
4	4	0	<b>Maine</b>	names	steam	<b>Texas</b>		

**6-letter states: Alaska, Hawaii, Kansas, Nevada, Oregon**

5	6	1	<b>Alaska</b>	kahals	halals	wallah	Halawi	<b>Hawaii</b>
3	3	0	<b>Alaska</b>	laksas	<b>Kansas</b>			
5	6	1	<b>Alaska</b>	akelas	ankles	knaves	davens	<b>Nevada</b>
7	8	1	<b>Alaska</b>	akelas	ankles	knarls	krangs	organs
				orange	<b>Oregon</b>			
5	6	1	<b>Hawaii</b>	Halawi	halwas	Khalsa	laksas	<b>Kansas</b>
5	7	2	<b>Hawaii</b>	Halawi	dahlia	Adelia	nailed	idaean
				<b>Nevada</b>				
7	9	2	<b>Hawaii</b>	Halawi	awhile	hameil	mailer	morale
				gaoler	orange	<b>Oregon</b>		
4	7	3	<b>Kansas</b>	laksas	Akelas	ankles	knaves	davens
				<b>Nevada</b>				
6	6	0	<b>Kansas</b>	kangas	krangs	organs	orange	<b>Oregon</b>
5	5	0	<b>Nevada</b>	agenda	danger	orange	<b>Oregon</b>	

**7-letter states: Alabama, Arizona, Florida, Georgia, Indiana, Montana, New York, Vermont, Wyoming**

6	6	0	<b>Alabama</b>	malabar	malaria	laminar	mazarin	<b>Arizona</b>
6	6	0	<b>Alabama</b>	malabar	malaria	mariola	aliform	<b>Florida</b>
7	7	0	<b>Alabama</b>	malabar	bimalar	Laramie	regalia	argoile
				<b>Georgia</b>				
6	6	0	<b>Alabama</b>	lambada	Lambadi	baladin	idalian	<b>Indiana</b>
5	5	0	<b>Alabama</b>	tambala	matalan	Matalon	<b>Montana</b>	
8	9	1	<b>Alabama</b>	tamable	lambert	brantle	latoner	elytron
				styrone	yonkers	<b>New York</b>		
7	7	0	<b>Alabama</b>	tambala	tamable	lambent	lomenta	montera
				<b>Vermont</b>				
7	9	2	<b>Alabama</b>	tambala	ambital	bimanal	blaming	mangily
				yawling	yowling	<b>Wyoming</b>		
4	4	0	<b>Arizona</b>	Adriano	ordinal	<b>Florida</b>		
4	4	0	<b>Arizona</b>	Argonia	origane	<b>Georgia</b>		
4	4	0	<b>Arizona</b>	Adriano	diarian	<b>Indiana</b>		
4	5	1	<b>Arizona</b>	Adriano	mandora	amorant	<b>Montana</b>	
5	6	1	<b>Arizona</b>	Adriano	aneroid	downier	wonkier	<b>New York</b>

5	5	0	<b>Arizona</b>	romania	moraine	montera	<b>Vermont</b>	
5	8	3	<b>Arizona</b>	romania	angioma	loaming	mangily	yawling
				yowling	<b>Wyoming</b>			
4	4	0	<b>Florida</b>	dariole	Loegria	<b>Georgia</b>		
5	5	0	<b>Florida</b>	ordinal	laniard	diarian	<b>Indiana</b>	
6	6	0	<b>Florida</b>	dilator	Rotalia	ailanto	amation	<b>Montana</b>
6	7	1	<b>Florida</b>	ordinal	aileron	loaners	Koreans	yonkers
				<b>New York</b>				
6	6	0	<b>Florida</b>	dilator	leotard	levator	venator	<b>Vermont</b>
6	6	0	<b>Florida</b>	ordinal	adoring	roaming	worming	<b>Wyoming</b>
6	6	0	<b>Georgia</b>	origane	Argonia	Arioian	diarian	<b>Indiana</b>
6	6	0	<b>Georgia</b>	origane	moraine	montera	amorant	<b>Montana</b>
5	5	0	<b>Georgia</b>	origane	wagoner	awroken	<b>New York</b>	
5	5	0	<b>Georgia</b>	origane	moraine	montera	<b>Vermont</b>	
5	5	0	<b>Georgia</b>	origane	roaming	worming	<b>Wyoming</b>	
4	4	0	<b>Indiana</b>	Adonian	Antonia	<b>Montana</b>		
7	7	0	<b>Indiana</b>	diarian	araneid	aneroid	downier	wonkier
				<b>New York</b>				
7	7	0	<b>Indiana</b>	diarian	araneid	aneroid	moraine	montera
				<b>Vermont</b>				
6	7	1	<b>Indiana</b>	Odinian	gonidia	adoring	roaming	worming
				<b>Wyoming</b>				
6	6	0	<b>Montana</b>	montane	montera	trowmen	network	<b>New York</b>
4	4	0	<b>Montana</b>	montane	montera	<b>Vermont</b>		
5	6	1	<b>Montana</b>	amation	moating	roaming	worming	<b>Wyoming</b>
4	6	2	<b>New York</b>	workmen	moniker	invoker	Trevino	<b>Vermont</b>
4	8	4	<b>New York</b>	yonkers	groynes	signory	yorking	working
				worming	<b>Wyoming</b>			
5	5	0	<b>Vermont</b>	morient	emoting	meowing	<b>Wyoming</b>	
<b>8-letter states: Arkansas, Colorado, Delaware, Illinois, Kentucky, Maryland, Michigan, Missouri, Nebraska, Oklahoma, Virginia</b>								
7	8	1	<b>Arkansas</b>	sardanas	sandarac	Calandra	cardanol	cartload
				doctoral	<b>Colorado</b>			
6	6	0	<b>Arkansas</b>	sardanas	Saarland	adrenals	Alanreed	<b>Delaware</b>
7	7	0	<b>Arkansas</b>	Alaskans	sisalana	Saillans	Allisons	allision
				<b>Illinois</b>				
7	8	1	<b>Arkansas</b>	ransacks	snackers	crankest	cronkest	unsocket
				Kentucks	<b>Kentucky</b>			
5	5	0	<b>Arkansas</b>	sardanas	mansards	Marsland	<b>Maryland</b>	
7	7	0	<b>Arkansas</b>	ransacks	Sarnacki	rackings	chagrins	chairing
				<b>Michigan</b>				
6	6	0	<b>Arkansas</b>	samskara	karaisms	komissar	ossarium	<b>Missouri</b>
3	5	2	<b>Arkansas</b>	Arkansaw	swanmark	Markesan	<b>Nebraska</b>	
6	6	0	<b>Arkansas</b>	Alaskans	Onalaska	oolakans	Koolhaas	<b>Oklahoma</b>
6	7	1	<b>Arkansas</b>	sardanas	Sardians	Sardinia	aniridia	viridian
				<b>Virginia</b>				

6	6	0	<b>Colorado</b>	doctoral	cartload	Calodera	acredale	<b>Delaware</b>
7	8	1	<b>Colorado</b>	doctoral allision	toroidal	dilators	ordinals	sinoidal
8	9	1	<b>Colorado</b>	doctoral unsocket	locators	crotales	ancestor	counters
5	6	1	<b>Colorado</b>	doctoral	Kentucks	<b>Kentucky</b>		
7	8	1	<b>Colorado</b>	doctoral matching	cartload crotalid	cardanol cilantro	mandorla locating	<b>Maryland</b> latching
7	8	1	<b>Colorado</b>	doctoral ossarium	crotalid	calorist	acrotism	amorists
7	8	1	<b>Colorado</b>	doctoral	ostracod	redcoats	ancestor	baronets
5	10	5	<b>Colorado</b>	doctoral mochilas	toroidal chloasma	modiolar masoolah	homaloid	halidoms
7	8	1	<b>Colorado</b>	doctoral virginal	crotalid	cilantro	caroling	original
8	8	0	<b>Delaware</b>	airedale allision	reallied	arillode	arilloid	Rollinia
8	9	1	<b>Delaware</b>	Alanreed strucken	adrenals	launders	neutrals	centaurs
4	4	0	<b>Delaware</b>	Alanreed	Kentucks	<b>Kentucky</b>		
8	8	0	<b>Delaware</b>	airedale charming	alderman remedial	<b>Maryland</b>	remained	dreaming creaming
8	10	2	<b>Delaware</b>	awardees moralise	seawards solarium	madrases ossarium	misreads	dismaler
5	6	1	<b>Delaware</b>	awardees	seaboard	seerband	Redbanks	<b>Nebraska</b>
6	10	4	<b>Delaware</b>	acredale mochilas	declares	decrials	decimals	camisole
7	7	0	<b>Delaware</b>	laagered	chloasma enlarged	masoolah	<b>Oklahoma</b>	gainlier virginal
8	9	1	<b>Illinois</b>	allision unsocket	stallion	toenails	aconites	conkiest
7	7	0	<b>Illinois</b>	allision	Kentucks	<b>Kentucky</b>		
6	6	0	<b>Illinois</b>	allision	simonial	orinasal	manorial	mandorla
5	6	1	<b>Illinois</b>	illusion	simonial	mailings	claiming	<b>Michigan</b>
7	7	0	<b>Illinois</b>	allision	Limousin	lionisms	similors	<b>Missouri</b>
7	8	1	<b>Illinois</b>	allision masoolah	lesional	aileron	baronies	bearskin
6	7	1	<b>Illinois</b>	allision	scallion	laconism	mochilas	chloasma
7	10	3	<b>Kentucky</b>	Kentucks ransomed	simonial	mailings	railings	virginal
8	9	1	<b>Kentucky</b>	Kentucks coamings	unsocket mandoras chimango	counters mandorla	ancestor <b>Maryland</b>	monstera coasting

8	8	0	<b>Kentucky</b>	Kentucks	unsocket	counters	outcries	moisture
7	7	0	<b>Kentucky</b>	Kentucks	unsocket	cronkest	Ackerson	brackens
8	10	2	<b>Kentucky</b>	Kentucks	unsocket	noctules	osculate	eschalot
8	10	2	<b>Kentucky</b>	Kentucks	unsocket	counters	routines	genitors
6	7	1	<b>Maryland</b>	dairyman	mridanga	admiring	maidling	claiming
7	7	0	<b>Maryland</b>	mandorla	manorial	roumania	mainours	ossarium
5	5	0	<b>Maryland</b>	malander	adrenals	larnakes	<b>Nebraska</b>	
5	7	2	<b>Maryland</b>	mandorla	mandolas	Asolando	oolakans	Koolhaas
6	6	0	<b>Maryland</b>	Grayland	daringly	drailing	virginal	<b>Virginia</b>
6	8	2	<b>Michigan</b>	chimango	coamings	isogamic	logicism	sciolism
7	7	0	<b>Michigan</b>	marching	crashing	creasing	bearings	bearskin
6	7	1	<b>Michigan</b>	mishnaic	shamanic	chamisal	chloasma	masoolah
4	5	1	<b>Michigan</b>	claiming	caviling	virginal	<b>Virginia</b>	
7	7	0	<b>Missouri</b>	ossarium	biramous	ambrosin	baronies	bearskin
7	7	0	<b>Missouri</b>	ossarium	mosasaur	amorosas	massoola	masoolah
6	9	3	<b>Missouri</b>	tourisms	amorists	agistors	organist	rigatoni
7	8	1	<b>Nebraska</b>	Markesan	shareman	marchesa	marschal	chloasma
6	6	0	<b>Nebraska</b>	bearskin	bearings	vinegars	vinaigre	<b>Virginia</b>
8	11	3	<b>Oklahoma</b>	masoolah	chloasma	chamisal	shamanic	mishnaic
				gaminish	graminis	migraine	vinaigre	<b>Virginia</b>

**9-letter states: Louisiana, Minnesota, New Jersey, New Mexico, Tennessee, Wisconsin**

5	6	1	<b>Louisiana</b>	Galoisian	magnolias	atonalism	anatomies
8	13	5	<b>Louisiana</b>	Galoisian	isolating	glutinosa	pulsation
				poulaines	phaseolin	anopheles	Halesowen
8	10	2	<b>Louisiana</b>	nosewheel	nose-jewel	Jo Sweeney	<b>New Jersey</b>
				lacinius	sulcation	coastline	encomiast
				centesimo	economies	economize	Niemczewo
8	15	7	<b>Louisiana</b>	Lusitania	lusatians	insulates	essential
				arsenites	arseniate	estuarian	saturnine

				uneastern	unwestern	unsweeten	unevenest
5	8	3	<b>Louisiana</b>	seventeen	<b>Tennessee</b>		
				Aitolians	satiation	situation	sinuation
				nicotians	socinians	<b>Wisconsin</b>	
7	9	2	<b>Minnesota</b>	tensional	hailstone	anetholes	
				Halesowen	nosewheel	nose-jewel	Jo Sweeney
				<b>New Jersey</b>			
5	6	1	<b>Minnesota</b>	encomiast	emication	Ecionemia	Ciemniewo
				<b>New Mexico</b>			
5	6	1	<b>Minnesota</b>	cantonise	tenancies	sentience	sentences
				<b>Tennessee</b>			
5	5	0	<b>Minnesota</b>	sensation	sanctions	socinians	<b>Wisconsin</b>
6	12	6	<b>New Jersey</b>	Jo Sweeney	nose-jewel	nosewheel	whensoe'er
				overweens	Reedson, WV	ironweeds	Serwoniec
				Czerniewo	Niemczewo	<b>New Mexico</b>	
5	8	3	<b>New Jersey</b>	Jo Sweeney	Joy Senese	eyestones	yestreens
				terseness	tenseness	<b>Tennessee</b>	
7	12	5	<b>New Jersey</b>	Jo Sweeney	nose-jewel	nosewheel	wholeness
				wenchless	chewiness	Schwieson	Sosnowiec
				cooniness	incession	<b>Wisconsin</b>	
7	12	5	<b>New Mexico</b>	Niemczewo	economize	economies	centesimo
				monetizes	sonnetize	sonnetise	inertness
				sternness	tenseness	<b>Tennessee</b>	
5	8	3	<b>New Mexico</b>	Ciemniewo	Mianowice	Amnicon, WI	insomniac
				inactions	socinians	<b>Wisconsin</b>	
6	8	2	<b>Tennessee</b>	tenseness	sternness	inertness	sonnetise
				conessine	incession	<b>Wisconsin</b>	
				<b>10-letter states: California, Washington</b>			
7	9	2	<b>California</b>	fractional	falcations	agnostical	glasnostic
				agonistics	incognitas	nowcasting	<b>Washington</b>
				<b>11-letter states: Connecticut, Mississippi, North Dakota, Rhode Island, South Dakota</b>			
12			<b>Connecticut</b>				<b>Mississippi</b>
8	11	3	<b>Connecticut</b>	noctilucant	noctilucine	nautilicone	reclination
				interaction	contorniate	entocarotid	dehortation
				adhortation	<b>North Dakota</b>		
8	10	2	<b>Connecticut</b>	noctilucant	noctilucine	nautilicone	declination
				directional	chlorinated	achondrites	disanchored
				<b>Rhode Island</b>			
12	14	2	<b>Connecticut</b>	noctilucant	noctilucine	nautilicone	reclination
				interaction	contorniate	entocarotid	dehortation
				adhortation	North Dakota	Andrakottos	Natsuko Toda
				<b>South Dakota</b>			
12			<b>Mississippi</b>				<b>North Dakota</b>
10			<b>Mississippi</b>				<b>Rhode Island</b>
11			<b>Mississippi</b>				<b>South Dakota</b>
7	9	2	<b>North Dakota</b>	adhortation	dehortation	orthodiaene	lionhearted

				chlorinated	achondrites	disanchored	<b>Rhode Island</b>
3	4	1	<b>North Dakota</b>	Andrakottos	Natsuko Toda	<b>South Dakota</b>	
8	12	4	<b>Rhode Island</b>	disanchored	achondrites	chlorinated	lionhearted
				orthodiaene	dehortation	adhortation	North Dakota
				Andrakottos	Natsuko Toda	<b>South Dakota</b>	
<b>12-letter states: New Hampshire, Pennsylvania, West Virginia</b>							
7	10	3	<b>New Hampshire</b>	Prince Mahesh	Marchenspiel	Charles Maine	aldermancies
				encarnalised	Carney Island	Canvey Island	pensylvanica
			<b>Pennsylvania</b>				
6	12	6	<b>New Hampshire</b>	Prince Mahesh	Marchenspiel	Charles Maine	aldermancies
				encarnalised	Centre Island	internalised	eternalising
				trianglewise	Living Waters	<b>West Virginia</b>	
7	10	3	<b>Pennsylvania</b>	Pennsylvania's	vena spinalis	palestinians	internasalis
				sanitariness	Nissan Verita	Saint-Gervais	East Virginia
			<b>West Virginia</b>				
<b>13-letter states: Massachusetts, North Carolina, South Carolina</b>							
10			<b>Massachusetts</b>				<b>North Carolina</b>
7			<b>Massachusetts</b>				<b>South Carolina</b>
3	3	0	<b>North Carolina</b>	Carrauntoohil	<b>South Carolina</b>		

**154 = the potential reduction in the total number of steps!**

Sources for all the words and names above are summarised in the table below:

***Collins English Dictionary (2018)***

amorant; amorosas; baladin; cantonise; chewiness; conkiest; Halesowen; laksas; masoolah; nosewheel; Saarland; snackers; sonnetise; Trevino; whensoe'er; wonkier

***Collins Official Scrabble Words (2019)***

cronkest; encarnalised; eternalising; internalised; lomenta

***Dorland's Illustrated Medical Dictionary, 28th edition***

internasalis - see 'sutura internasalis'

***en.wiktionary.org***

East Virginia

***encyclopedia2.thefreedictionary.com***

Andrakottos

***Facebook***

Jo Sweeney; Schwieson

***Oxford English Dictionary***

acredale- hyphenated, except solid in 1831 quote; Aitolians - see 'Aetolian'; amation; argoile - see 'argol'; awroken - see 'awreak'; glasnostic; halwas - see 'halva'; komissar - see 'commissar'; lambada; malander - see 'mallender'; marschal - see 'marshal'; moralise - see 'moralize'; morient; nose-jewel; nowcasting; Pennsylvania's - see 'butcherbird', 1792 quote - possessive or plural form; pensylvanica - see 'yellow jacket', 1939 quote; reallied – see 're-ally', 1596 quote; sanitariness; Sardinia - see 'sardine'

***Ordnance Survey Gazetteer of Great Britain, 3rd edition***

Canvey Island

***Times Index Gazetteer of the World***

Ackerson; Alanreed; Amnicon, WI; Argonia; Arkansaw; Centre Island; Grayland; Markesan; Marsland;

Onalaska; Saillans; Saint Gervais

**Webster's New International Dictionary, Second edition**

acrotism; adhortation; Adonian; agonistics; aldermancies; ambital; amorists; Antonia; Arioian; arseniate; bimalar; brantle; chimango; diarian; emication; entocarotid; estuarian; eyestones; falcations; Galoisian; gaminish; gaoler; Halawi; homaloid; kangas; lacinious; Lambadi; Laramie; latoner; lesional; Loegria; Lusitania; maidling; massoola; matalan; Odinian; oolakans; orthodiaene; ossarium; seerband; similors; simonial; sinoidal; stricken; styrene; sulcation; trianglewise; venator; vinaigre; wenchless

**Webster's Third New International Dictionary**

achondrites; aconites; Adelia; admiring; adoring; adrenals; agenda; agistors; agnostical; ailanto; aileron; ailerons; Airedale; Akelas; Alaskans; alderman; aliform; allusion; ambrosin; amino; anatomies; ancestor; aneroid; anetholes; angioma; angriest; aniridia; ankles; anopheles; araneid; arillode; arilloid; armllets; arsenates; atonalism; averting; awardees; awhile; baronets; baronies; bearings; bearskin; bimanal; biramous; blaming; brackens; Calandra; calathos; calorist; camisole; card; cardanol; carolling; cartload; cavilling; centaurs; centesimo; chagrins; chairing; chamisal; charming; chloasma; chlorinated; cilantro; claiming; coamings; coasting; coastline; cold; conessine; contorniate; cord; counters; counties; crankest; crashing; creaming; creasing; crotales; crotalid; dahlia; dairyman; danger; danio; daringly; dariole; davens; decimals; declares; declination; decrials; dehortation; dhoti; dilator; dilators; directional; disanchored; dismaler; doctoral; downier; dragline; drailing; dreaming; economies; economize; elytron; emoting; encomiast; enlarged; eschalot; essential; falters; fathers; fractional; gainlier; genitors; goad; gold; gonidia; graminis (see 'radix graminis'); griot; groin; groynes; hailstone; halals; halidoms; hameil; heats; hoist; huia; idaeen; idalian; illusion; imperil; inactions; incession; incognitas; inertness; insomniac; insulates; interaction; invoker; ironweeds; isogamic; isolating; kahals; karaisms; Kentucks; Khalsa; knarls; knaves; Koreans; krangs; laagered; laconism; lambent; lambert; laminar; lanyard; larnakes; latching; launders; lead; leotard; levator; limiter; Limousin; lionhearted; lionisms; load; loaming; loaners; locating; locators; logicism; lusatians; madrases; magnolias; mailer; mailings; mainours; malabar; malaria; maltier; mandolas; mandora; mandoras; mandorla; mangily; manorial; mansards; marchesa; marching; mariola; matching; mazarin; meowing; mishnaic; misreads; moating; mochilas; modiolar; moisture; monetizes; moniker; monstera; montane; montera; moraine; morale; mosasaur; mridanga; nailed; names; nautilicone; network; neutrals; nicotians; noctiluculent; noctilucine; noctules; oaths; ohia; orange; ordinal; ordinals; organist; organs; origane; original; orinasal; osculate; ostracod; outcries; overweens; palestinians; phaseolin; pilgrim; poulaines; pulsation; rackings; railings; ransacks; ransomed; ratsbane; reclination; redcoats; regalia; remained; remedial; rigatoni; right; roaming; Rollinia; romania; Rotalia; roumania; routines; samskara; sanctions; sandarac; sardanas; Sardians; satiation; scallion; sciolism; scouting; seabeard; seawards; sensation; sentences; sentience; shamanic; shareman; signory; sinuation; sisalana; situation; socinians; solarium; sonnetize; stallion; steam; sternness; swanmark; tamable; tambala; tenancies; tenseness; tentional; terseness; toenails; toroidal; tourisms; trailing; trowmen; unsocket; vinegars; virginal; viridian; wagoner; wallah; ward; warm; wholeness; working; workmen; worming; wrong; yawling; yestreens; yonkers; yorking; yowling

**Webster's Biographical Dictionary**

Adriano

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Allisons; Asolando; Calodera; Carney Island; Carrauntoohil; Charles Maine; Ciemniewo; Ecionemia; glutinosa; Joy Senese; Koolhaas; Living Waters; Matalon; Mianowice; Natsuko Toda; Niemczewo; Nissan Verita; Redbanks; Reedson WV; Sarnacki; Setsumatsusha

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vena spinalis