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Knowledge Base

I created a knowledge base on George Washington which was sourced from the internet. I started with a URL from a biography website on Washington, and my program crawled through relevant URLs and recorded them in a file. Afterwards, my program scraped the text from each URL in the file and saved the text from each URL to a new file. The program then processed the text from each file, removing unnecessary characters and lines (first and last 5 lines) and recorded the processed text to a new file. The program then combined all lines from all files and obtained the word frequency of each word. Based on my domain knowledge, I noted the ten most relevant frequent words to be added to my knowledge base. The knowledge base is a dictionary that holds a relevant frequent word as its key and a list of sentences as its value. The program cycled through all sentences and if a sentence included George or Washington as well as the relevant frequent word, then the sentence was added to the corresponding key list in the knowledge base.

The ten frequent relevant terms in this knowledge base are:

American

the presidency accomplishments during his first term washington adopted a series of measures proposed by treasury secretary hamilton to reduce the debt and place its finances on sound his administration also established several peace tr eaties with native american tribes and approved a bill establishing the capital in a permanent district along the potomac whiskey rebellion then in washington signed a bill authorizing congress to place a tax on distilled spirits which stirred protests in rural areas of pennsylvania.', 'an initially loyal british subject washington eventually led the continental army in the american revolution and became the new first president.', 'in in part because of the leadership skills he displayed during the war the continental congress elected washington as the first american president', 'an extraordinary figure in american history and unusually tall at washington was also an ordinary man.', 'cold war georg e kennan sends to state department george kennan the american charge in moscow sends an telegram to the department of state detailing his views on the soviet union and policy toward the communist state.', 'almost every significant polit ical figure of the american revolution served in the continental congress including samuel adams john adams john hancock john jay alexander hamilton thomas jefferson benjamin franklin james madison patrick henry and george washington. 'winter at valley forge life at valley forge disease at valley forge baron von steuben at valley forge battle of monmouth sources the encampment of general george washington continental army at valley forge in the winter of was a major turning point in the american revolutionary war.', 'watch washington on history vault battle of valley on september general wilhelm von knyphausen led british soldiers on a raid of valley forge where american troops had built a handful of storage facilities.', 'read more how smallpox inoculations helped george washington win the war baron von steuben at valley forge despite the harsh conditions valley forge is sometimes called the birthplace of the american army bec use by june of the weary troops emerged with a rejuvenated spirit and confidence as a fighting force.', 'how george washington used spies to win the american revolution how important was george network of spies to winning the american evolution.', 'battles of trenton and princeton general george army crossed the icy delaware on christmas day and over the course of the next days won two crucial battles of the american revolution.', 'with howe leading and cornwallis in command of reserve troops the prists derected ameritant office set by general george washington in the battle or long island in august., a meritant searcessen benjamin franklin John adams and John Jay negorated with presentatives of king george isli of great britain.', 'george washington george washington was command in the continental army during the american revolutionary war and served two terms as the first president from to.', 'credit is and he continental army during the american revolutionary war when british general lord charles cornwallis and h s army surrendered george washington american force and its french allies at the battle of yorktown on october it was more than just military outcome in yorktown virginia marked the conclusion of the last major battle of the american m the washington library his much desired mount vernon retirement with greater calls to public read more george life in our interactive timeline timeline leading up to the battle in the summer of french troops with comte de rochambeau at the helm landed in newport rhode island to aid the americans.', 'battles of trenton and princeton general george army crossed the icy delaware on christmas day and over the course of the next days won two crucial battles of the america the neum innex in negoci mone stand to and the american, volutes of trenton and princed general going along colors are consistent to the color of germantown at stands to and the battle of germantown on cother during the american revolution british forces in pennsylvania defeated the american continental army under general george awaysington.', 'battle of long island on august the british army successfully moved against the american continental army led by george washington.', 'american statesmen benjamin franklin john adams and john jay negotiated the peace treaty with representatives of king george e iii of great britain.', 'a combined american and french force led by george washington and french general comte de rochambeau completely surrounded and captured british general charles cormwallis and about british troops during the si ege of yorktown.', 'why ukraine has seen centuries of conflict flower american beauty rose bird wood thrush interesting facts on july a compromise between thomas jefferson alexander hamilton and james as the residence passed declaring george selection of a site on the potomac river as the new permanent capital.', 'although originally conceived of in by major pierre who had been commissioned by george washington to design a plan for the capital the creation did not com mence until september when a stone from a field in bethlehem was set into a larger slab of american granite and laid in ceremony as the foundation stone.', 'george washington george washington was commander in chief of the continental a rmy during the american revolutionary war and served two terms as the first president from to.', 'leading up to the american revolution one of the chief complaints about the british empire was that it imposed without slogan that washing ton has since adopted as its unofficial motto.', 'george mount vernon mount vernon is the former plantation estate and burial location of george washington the american revolutionary war general and the first president of the united sta tes his wife martha and other washington family members.', 'the scandal that ruined alexander chances of becoming president as the first secretary of the treasury alexander hamilton built the foundations of the national banking system nd wielded more power in the earliest years of american democracy than any other man beside george washington.', 'george washington during the american revolution by the late washington had experienced firsthand the effects of rising ta es imposed on american colonists by the british and came to believe that it was in the best interests of the colonists to declare independence from england.', 'by the time the second continental congress convened a year later the amer can revolution had begun in earnest and washington was named commander in chief of the continental army.', washington left one of the most enduring legacies of any american in history.', 'citation information article title george washington author editors website name history url https access date publisher a e television networks last updated january original published date october tags terms american revolution fact check we strive for accuracy and fairness,', 'geo rge mount vernon mount vernon is the former plantation estate and burial location of george washington the american revolutionary war general and the first president of the united states his wife martha and other washington family memb atrick henry and george washington.', 'battle of germantown at the battle of germantown on october during the american revolution british forces in pennsylvania defeated the american continental army under general george washington. with howe leading and cornwallis in command of reserve troops the british defeated american forces led by general george washington in the battle of long island in august.', 'american statesmen benjamin franklin john adams and john jay negotiated the peace treaty with representatives of king george iii of great britain.', 'george washington george washington was commander in chief of the continental army during the american revolutionary war and served two terms as the e first president from to.', 'by rachel chang feb. history culture how george washington kept alexander hamilton in check the measured elder and his headstrong brought out the best in one another in the crucial early days of american in dependence.', 'george washington was a virginia plantation owner who served as a general and of the colonial armies during the american revolutionary war and later became the first president of the united states serving from to early li e and family washington was born on february in westmoreland county virginia.', 'washington began to understand that military victories were as important as keeping the resistance americans began to believe that they could meet their bjective of independence without defeating the british army.', 'george washington presidency still hoping to retire to his beloved mount vernon washington was once again called upon to serve this during the presidential election of he eceived a vote from every elector to the electoral college the only president in american history to be elected by unanimous approval.', 'read more how george personal and physical characteristics helped him win the presidency accomplis hments during his first term washington adopted a series of measures proposed by treasury secretary hamilton to reduce the debt and place its finances on sound his administration also established several peace treaties with native ameri an tribes and approved a bill establishing the capital in a permanent district along the potomac whiskey rebellion then in washington signed a bill authorizing congress to place a tax on distilled spirits which stirred protests in rur. areas of pennsylvania.']

War

Forms insulation (mage) to many sure?, "but the constitution which at my time critics and articles that showers is the best from of markets to go not received not my the option of expectable stronge but the optional personation of all actions and such interest to the control of the control

President

[Seeing skibligton became a president", but the constitution shich at any time exists changed by an oplicit and adherdit ext of the shell people is secreelly obligatory upon hold the south not a president and the constituents are not not incorpt and the result times are as a constitution and the states to the constituents are not not to the south to the state in the first president of the united states serving from to carly life and early resident and president and the state is the first president of the united states serving from to carly life and early in the constituent and the president and early in the constituent of the constitution of the resident and early as a state of the president and president and the president and president and the president and

Revolutionary

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['George Mashington was an avoid revolutionary', but the constitution which at any time exists changed by an explicit and authentic act of the whole people is sacredly obligatory upon hold the maxim no less applicable to public than to private affairs that homesty is the best boson of america is open to receive not not up the opulent and respectable stranger but the oppressed and persecuted of all nations and washington george washington bigning plantation conner who served as a general and of the colonial armies during the earlies are the first president of the united states serving from to early life and family washington was born on rebruary in westmoreland county virginia.', revolutionary was victory washington had no way of knowing the yorktonn victory would bring the war to a the british still had troops occupying new york city charleston and savamana plus a large felect of sarshings the telector in the british still had troops occupying new york city charleston and savamana plus a large felect of sarshing in the colonies.', 'sa the wife of the continental anarths anashington was integral to a fundarising campain that called upon woman to donate money to the prevention of was a major turning point in the american revolutionary war.' general george washington was directly as established to the revolution of the continental army at valley forge in the winter of was a major turning point in the american revolutionary war and the continental army of general george washington and served nearly seven years on behalf of the revolutionary war and the continental army of the maintenance of joseph plumb martin enlisted in the connecticut state militia at the tender age of he later joined the continental army of general george washington arrives in yorktoon virginia marked the conclusion of the last major battle washington arrives in yorktoon virginia marked the conclusion of which are also as the first president from to.', 'greety mashington was commander in thire of the continental army during the american revolut

Independence

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['George Washington fought for independence from the british rule', 'washington began to understand that military victories were as important as keeping the resistance americans began to believe that they could meet their objective of independence without defeating the british army.', 'credit fine art images contents timeline leading up to the battle washington arrives in yorktown on october it was more than just military outcome in yorktown vinginia marked the conclusion of the last major battle of the american revolution and and the start of a new independence.', 'first lady dolley madison who had refused to leave the white house until only a few hours before the british arrived secured the full length portrait of george washington and a copy of the declaration of independence on her way out.', 'george washington during the american revolution by the late washington had experienced firsthand the effects of rising taxes imposed on american colonists by the british and came to believe that it was in the best interests of the colonists to declare independence from england.', 'as a result when it came time to move forward with the presidency washington was prepared to follow the guidance of his cabinet and he was ready to lead with his own sense of direction as he had done while com manding the charge for independence on the battlefield.', 'by rachel chang feb. history culture how george washington kept alexander hamilton in check the measured elder and his headstrong brought out the best in one another in the crucial early days of ame rican independence.', 'washington began to understand that military victories were as important as keeping the resistance americans began to believe that they could meet their objective of independence without defeating the british army.']

Colonies

['George Washington was the first president of the former colonies', 'washington was the best choice for a number of reasons he had the prestige military experience and charisma for the job and he had been advising congress for another factor was political the revolution had started in new england and at the time they were the only colonies that had directly felt the brunt of british tyranny.', 'revolutionary war victory washington had no way of knowing the yorktown v ictory would bring the war to a the british still had troops occupying new york city charleston and savannah plus a large fleet of warships in the colonies.', 'in the french built fort duquesne where the allegheny and monompahela rivers joined to form the ohio river in pittsburgh making it a strategically important stronghold that he british repeatedly during and the french won a string of victories defeating in quick succession the young george washington edward bra ddock and successor governor william shirley of massachusetts in governor shirley fearing that the french settlers in nova scotia acadia would side with france in any military confrontation expelled hundreds of them to other british colonies many of the exiles suffered cruelly.', 'borrowing heavily to finance the war he paid prussia to fight in europe and reimbursed the colonies for raising troops in north read more how george washington inadvertently sparked a world war british victory in canada in july the british won their first great victory at louisbourg near the mouth of the lawrence river.', 'washington was the best choice for a number of reasons he had the prestige military experience and characterial probability of the pr

United

[George Mashington helped create the united states of america', 'but the constitution which at any time exists changed by an explicit and authentic act of the whole people is sacredly obligatory upon hold the maxim no less applicable to public than to private affairs that honesty is the best boson of america is open to receive not only the equilent and respectable stranger but the oppressed and persecuted of all nations and washington people washington say as walkington biography publish date apr comment george washington as walkington of the united states serving from to early life and family washington was born on february in mestacreland county virginia.', 'washington was able to mobilize public support for the treaty which proved decisive in meaning a clear boundary between canada and the united states and most importantly delaying a war we fith britain and providing over a decade of prosperous trade and development the fledgling country so desperately needed.', 'person martha washington martha washington was the wife of president george washington and the original first lady of the united state s.'., 'we humbly identified himself in his will as george washington of mont vermon a citizen of the united states.', 'contended equations as a great leader and eventual election as first president of the united states and most industry as a great of the united states of the same of the summer of trends that any provident washington in the summer of trends that great calls to public read more george life in our interactive timeline titudine leading up to the battle in the summer of trends through the provident is the provident which is a great part which are provident with greater calls to public read more george life in our interactive timeline titudine leading up to the battle in the summer of trends through the provident is the provident provident to continue recommended for you.', george washington was provident to continue recommended for you.', george washington who picked the locative support and washington i

Government

['George Mashington thought that a limited government was best', 'the family held some distinction in england and was granted land by henry viii but much of the wealth in england was lost under the puritan government of a liver cromsell in grandfather lawrence washington may wanting to virginia.', 'or perhaps because he hoped he would not be called upon to serve he remained but when rebellion erupted in massachusetts washington knew something needed to be done to improve the government.', 'at the constitutional c convention washington was unanimously chosen as james madison and alexander hamilton come to the conclusion that it amendments that were needed but a new constitution that would give the national government more in the end the convention produced a plan for government that not only would address the current problems but would endure through time.', 'washington invoked the militia act of summoning local militias from several states to put down the washington personally took command marching the troops into the areas of rebellion and demonstrating that the federal government would use force when necessary to enforce the law.', 'political parties all through his two terms as president washington was dismayed at the growing partiasaship within the government and the nation.', 'desiring to return to mount verson and his farming and feeling the decline of his physical powers with age washington refused to yield to the pressures to serve a third term even though he would growbally not have faced any by doing this he was a gain mindful of the precedent of being the first president and chose to establish a peaceful transition of government.', 'while in virginia washington served in the colonial house of burgesses and like many of his compatitors great increasingly frustrated with the thritish government.'', 'washington believed that divergent views were critical for the health of the new government but he was distincted and what the president washington between his britantian importance washington served not pr

Virginia

If fewer gas isoblighten was been in virginia.", (peopge weakington means a virginia plantation seems due served as a general and of the wealth in negland was been not fibrary in the method and granted and granted land by heavy viii but much of the wealth in negland was lost under the puritae government of allows creamed line granted and granted to virginia.", 'jase did in ad agapatine searching method and as granted land by heavy viii but much of the wealth in negland was lost under the puritae government of allows creamed line of the puritae government of allows creamed line of the puritae government of allows and the puritae government of allows creamed line of the puritae grant of the puritae government of allows and puritae grant of the grant of the puritae grant of the grant of

British

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The following are a couple sample dialogs that I would expect from a George Washington chatbot built on the knowledge shown above:

INITIAL DIALOG 1:

User: Hello, I am Martha, and I am passionate about George Washington. What is your Name?

ChatBot: I have no name, but you can call me Freedom-Bot

User: Ok, Freedom-Bot, do you enjoy talking about George Washington?

ChatBot: Yes, he shared much of his wisdom in speeches and letters when Washington was president

User: How important was George Washington to the revolutionary war?

ChatBot: Washington won an important battle in Yorktown and won the war when General Cornwallis surrendered

User: That is a good point, did you know that Washington also survived many near death experiences?

ChatBot: Probably, yeah

INITIAL DIALOG 2:

User: Hello, I am Martha, and I am passionate about George Washington. What is your Name?

ChatBot: I have no name, but you can call me Freedom-Bot

User: Ok, Freedom-Bot, do you enjoy talking about George Washington?

ChatBot: Yes, he was a plantation owner and owned many slaves

User: That's awful, other than that, did he have an important role in history?

ChatBot: Yes, he was a great general for the British army in the French and Indian War

User: Interesting, I didn't know that, can you give me a random Washington fact?

ChatBot: Washington's bad teeth were replaced by ivory or pulled from slaves

User: George Washington was awful!

ChatBot: Sometimes