

Lifespans of Jesus' Ancestors

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```
# Clear the environment  
rm(list=ls())
```

```
# Load necessary libraries  
library(ggplot2)  
library(readr)
```

```
# MacBook Pro Note: hover over file + option + command + c + command + v
```

```
Lifespans <- read_csv("/Users/peytonhall/Desktop/BiblionGenealogy/QueriedResults/Individuals With Documented Lifespans.csv")
```

```
## Rows: 23 Columns: 4  
## -- Column specification -----  
## Delimiter: ","  
## chr (2): Name, Citation: Lifespan  
## dbl (2): Generation, Lifespan Years  
##  
## i Use 'spec()' to retrieve the full column specification for this data.  
## i Specify the column types or set 'show_col_types = FALSE' to quiet this message.
```

```
# Lifespans
```

```
# Clean the names (data type string)
```

```
cleaned_names <- gsub("'Eth-'Ha'adham \\\(a.k.a. Adam\\\\)", "Adam", Lifespans$Name)  
cleaned_names <- gsub("Abraham \\\(a.k.a. Abram\\\\)", "Abraham", cleaned_names)  
cleaned_names <- gsub("Jacob \\\(a.k.a. Israel\\\\)", "Jacob", cleaned_names)  
cleaned_names <- gsub("David, King of Israel \\\(Undivided Kingdom\\\\)", "David", cleaned_names)
```

```
# Create a data frame with cleaned names
```

```
Lifespans_cleaned <- data.frame(Name = cleaned_names, Lifespan_Years = Lifespans$`Lifespan Years`)
```

```
# Reorder the data frame based on the Generation column
```

```
Lifespans_cleaned <- Lifespans_cleaned[order(Lifespans$Generation), ]
```

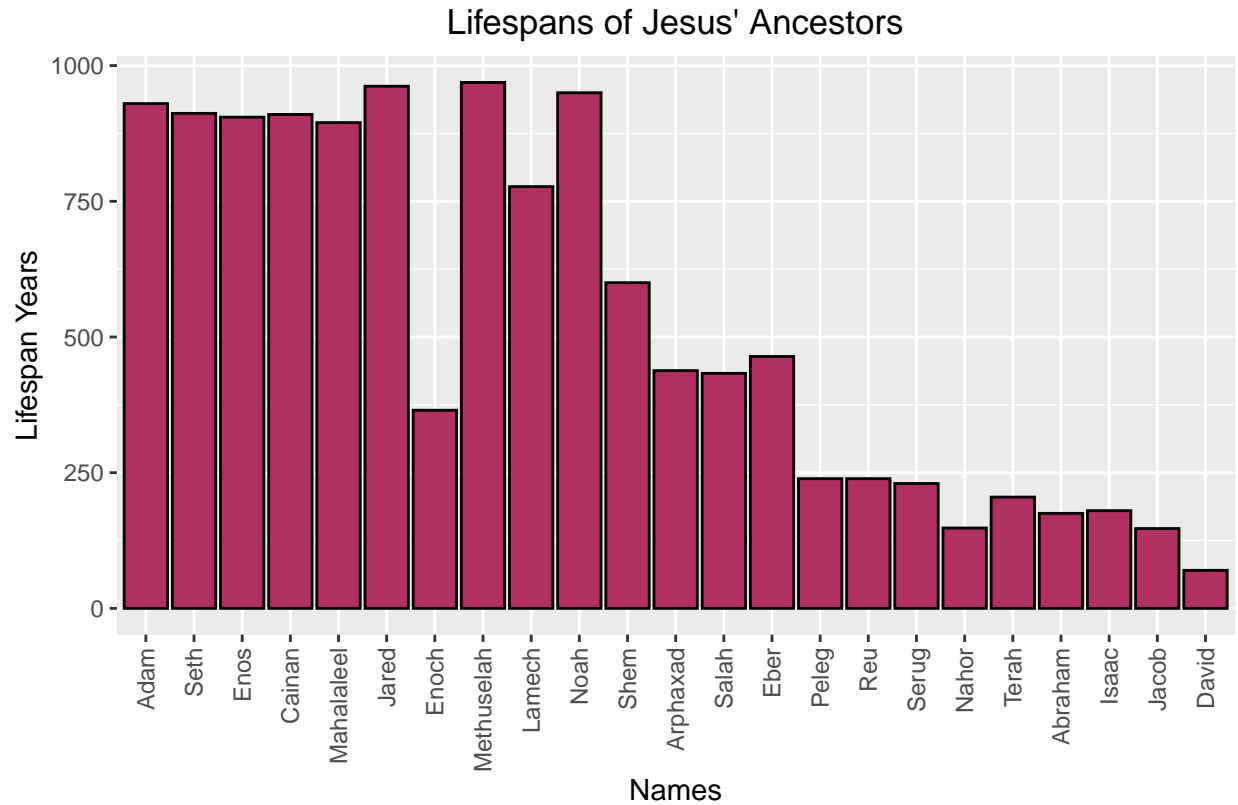
```
# Reorder the factor levels of the "Name" variable based on the "Generation" column
```

```
Lifespans_cleaned$Name <- factor(Lifespans_cleaned$Name, levels = Lifespans_cleaned$Name[order(Lifespans$Generation)])
```

```
# Generate a bar graph with 90° tilted x-axis labels, a labeled x-axis & y-axis, and a centered title.
```

```
ggplot(Lifespans_cleaned, aes(x = Name, y = Lifespan_Years)) +  
  geom_bar(stat = "identity", color = "black", fill = "maroon") +  
  labs(title = "Lifespans of Jesus' Ancestors", x = "Names", y = "Lifespan Years",
```

```
caption = "Sources (KJV): Ge 5:3-10, 5:12-23, 5:25-31, 9:29, 11:10-25, 11:32, 25:7, 35:28, 47:28
theme(axis.text.x = element_text(angle = 90, vjust = 0.5, hjust=1),
      plot.title = element_text(hjust = 0.5),
      plot.caption = element_text(hjust = 0.5))
```



Sources (KJV): Ge 5:3-10, 5:12-23, 5:25-31, 9:29, 11:10-25, 11:32, 25:7, 35:28, 47:28, 2 Sa 5:3-4