Why Automated Videos

Getting and Cleaning Data

MSD in R
6 Courses
35K+ Enrollments

Executive Data Science
5 Courses
150K+ Enrollments

Genomic Data Science
9 Courses
230k+ Enrollments

Data Science
10 Courses
4.4M+ Enrollments

Quiz 2 question 5 wording change request.

For the question reading in the fixed width file could we change the wording

from

Read this data set into R and report the sum of the numbers in the fourth column.

to

Read this data set into R and report the sum of the numbers in the fourth of the nine columns.

because

The question, as it stands, assumes people read the data in using a combination of fixed width settings that gives them, however since the question doesn't specify a particular set of settings people can (and have) used fixed width import settings that read in the spaces between columns as columns filled with NAs, or interpret the first date column as being three fixed width columns of day month and year rather than one date column. Clarifying

One of many typos in one of our many courses

Source: https://twitter.com/rdpeng/status/568083499955183616

Data Science Specialization

About

Getting and Cleaning Data

- Subsetting example walkthrough
- Apples to Oranges Data Organisation Challenge
- dplyr introductory tutorial and R Markdown document: A 39-minute video tutorial that covers the five basic dplyr "verbs" and a dozen other dplyr functions. dplyr is an update to the plyr package, useful for subsetting, sorting, summarizing, and merging data using a more intuitive syntax than plyr or base R.
- dplyr "going deeper" tutorial and R Markdown document: A 37-minute video tutorial that covers the new functionality in dplyr versions 0.3 and 0.4.
- Downloading files general advice
- Codebook sample
- Second Codebook sample
- Query string (and other fields-within-fields) unrolling
- Pre-processing Excel files before loading them into R
- Codebook template that can be used in the Getting and Cleaning Data project
- "Real world" example - reading American Community Survey 2000 PUMS Data: Demonstrates how to extract records of a given type from a data file containing multiple record types, and how to use an Excel-based code book to specify arguments for reading a fixed-width file.
- 18 Months of CTA advice
- Common Problems: Quiz 1 - Missing Java Runtime Explains how to solve the problem of a missing Java Runtime for the question that requires students to process a Microsoft Excel spreadsheet.
- Strategy for Reading Files & APIs / Quiz 2

Source: http://datasciencespecialization.github.io/

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Built with blogdown and Hugo. Theme Blackburn.

The future of education is plain text

Jeff Leek 2017/06/13

moocs

I was recently at a National Academy meeting on Envisioning the Data Science Curriculum. It was a fun meeting and one of the questions that came up was what kind of infrastructure do we need to enable shared curricula, compatibility across schools, and not reinventing the wheel. My answer to this question was that we need lecture notes stored in plain text files (like rmarkdown files) and data stored in csv files with direct links.

I am not nearly the first person to make this argument. Lorena Barba explained why her MOOC doesn't use video almost two years ago now. More recently a blog post pointed out some advantages of plain text code files for data analysis. I'm sure there are more that I don't know about.

I think that the future of education is in plain text documents (not just for data science) and that the future of data storage is in simple csvs for all but the most complicated data sets. Why?

- **Plain text is always compatible** Every single operating system has a plain text editor and they are all compatible up to the encoding of the text. This means that if you develop your lecture notes on a Mac and I develop them on a PC then we can still easily share - no worrying if you have the right software.
- **Plain text is easy to mix and match** If your lecture materials are in a simple plain text format like markdown you can copy and paste the materials from one lecture into another and when the document is compiled make all the formatting/colors/etc. match. No more looking at hodgepodges of borrowed slides some with one ppt format and some with another.
- **Plain text is easy to maintain** We mostly work on scalable education here at the JHU Data Science Lab.

Source: https://simplystatistics.org/2017/06/13/the-future-of-education-is-plain-text/

Components of a MOOC

- **Tutorials** - easy to write in plain text
- **Slides** - easy to make and edit in Google Slides
- **Quizzes and Assessments** - easy to write in plain text
- **Videos** - challenging to create in plain text

Amazon Polly

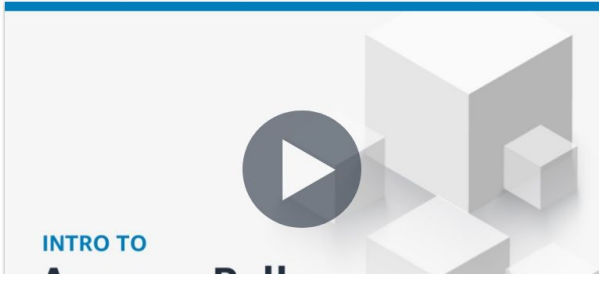
Turn text into lifelike speech using deep learning

Get started with Amazon Polly

Listen to Amazon Polly >>

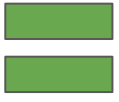
Amazon Polly is a service that turns text into lifelike speech, allowing you to create applications that talk, and build entirely new categories of speech-enabled products. Amazon Polly is a Text-to-Speech service that uses advanced deep learning technologies to synthesize speech that sounds like a human voice.

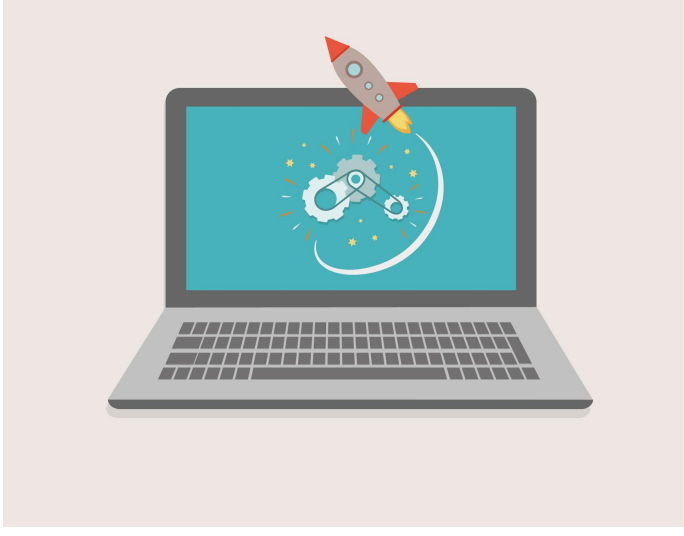
With dozens of lifelike voices across a variety of languages, you can select the ideal voice and build speech-enabled applications that work in many different countries.



https://aws.amazon.com/polly/

Google Slides





Souce: FreePik

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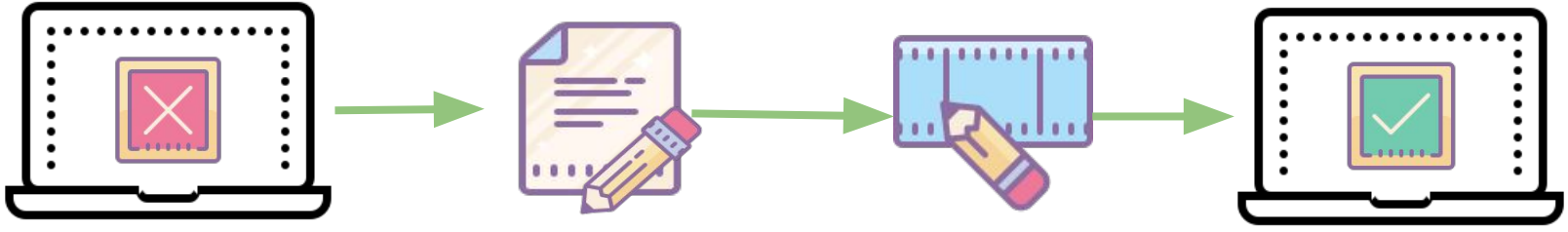
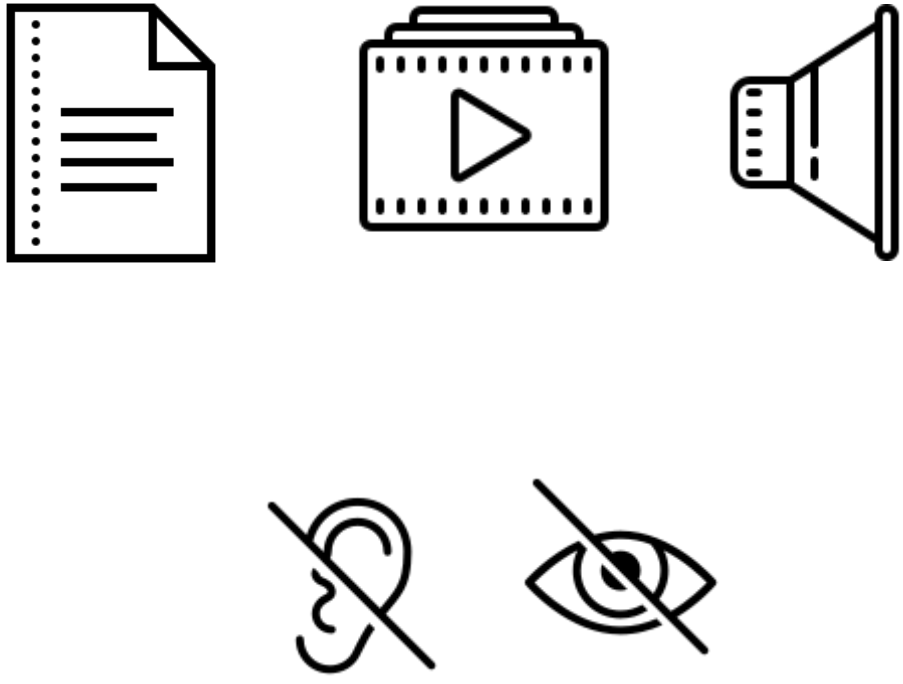
The Automated R Instructor

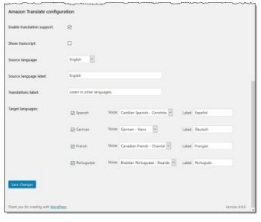




Source: https://icons8.com/

AWS News Blog

Category: Amazon Polly

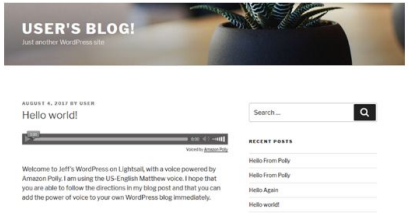


Amazon Polly Plugin for WordPress Update – Translate and Vocalize Your Content

by Jeff Barr | on 19 JUN 2018 | in Amazon Polly, Amazon Translate, Launch, News | Permalink | Comments | Share

Earlier this year I showed you how to Give Your WordPress Blog a Voice with Amazon Polly and walked you through the steps involved in installing, configuring, and using the Amazon Polly for WordPress plugin. Today we are making this plugin even more powerful, adding the ability to translate your content into one or more […]

Read More

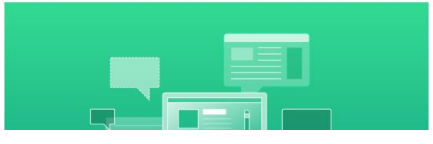


Give Your WordPress Blog a Voice With Our New Amazon Polly Plugin

by Jeff Barr | on 08 FEB 2018 | in Amazon Lightsail, Amazon Polly, AWS Quest | Permalink | Comments | Share

I first told you about in late 2016 in my post Amazon Polly – Text to Speech in 47 Voices and 24 Languages. After that launch, we added support for Korean, five new voices, and made Polly available in all Regions in the aws partition. We also added whispering, speech marks, a timbre effect, and […]

Read More



News from the AWS Summit in Berlin – 3rd AZ & Lightsail in Frankfurt and Another Polly Voice

by Jeff Barr | on 18 MAY 2017 | in Amazon Lightsail, Amazon Polly, Launch, News | Permalink | Share

We launched the AWS Region in Frankfurt in the fall of 2014 and opened the AWS Marketplace for the Region the next year. Our customers in Germany come in all shapes and sizes: startups, mid-market, enterprise, and public sector. These customers have made

Source: https://aws.amazon.com/blogs/aws/category/artificial-intelligence/amazon-polly/

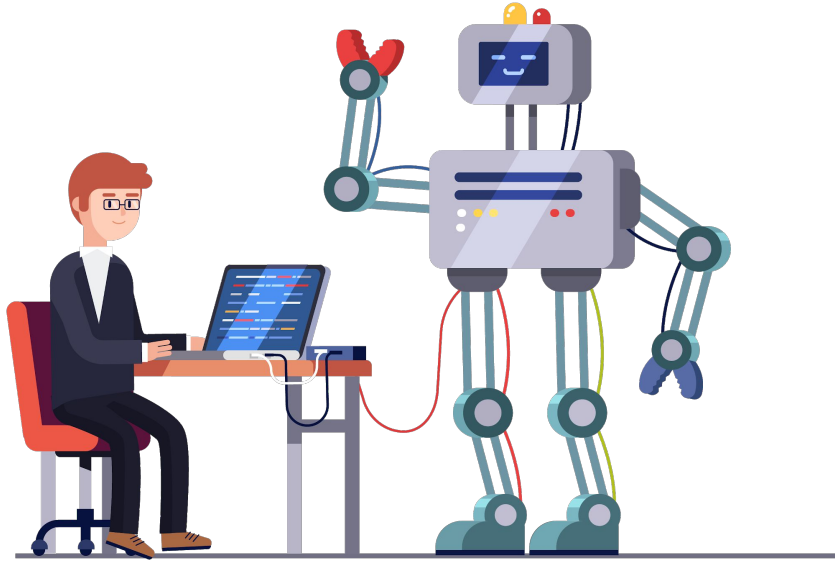


Image: Freepik