



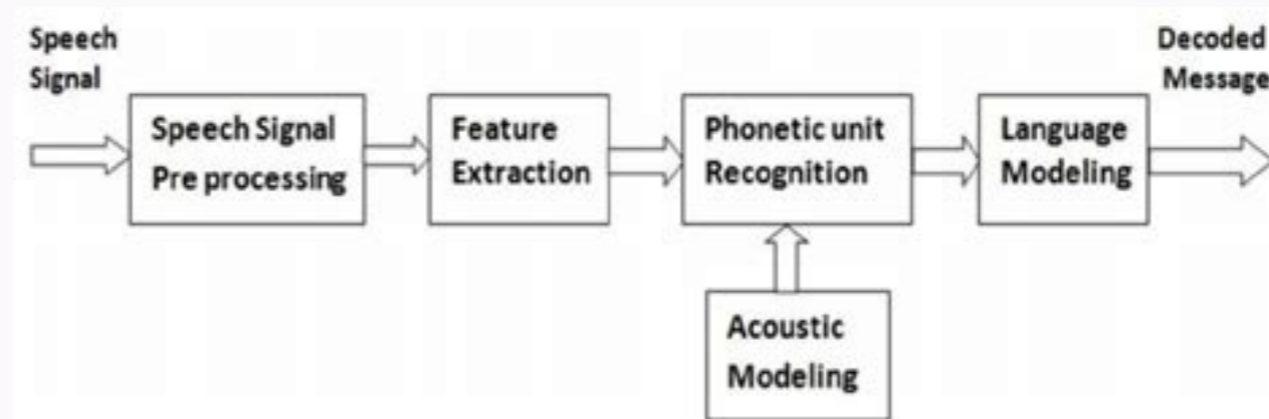
I'm not robot



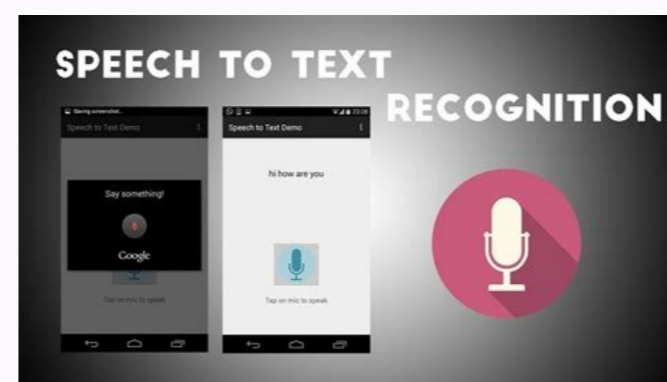
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How google speech recognition works

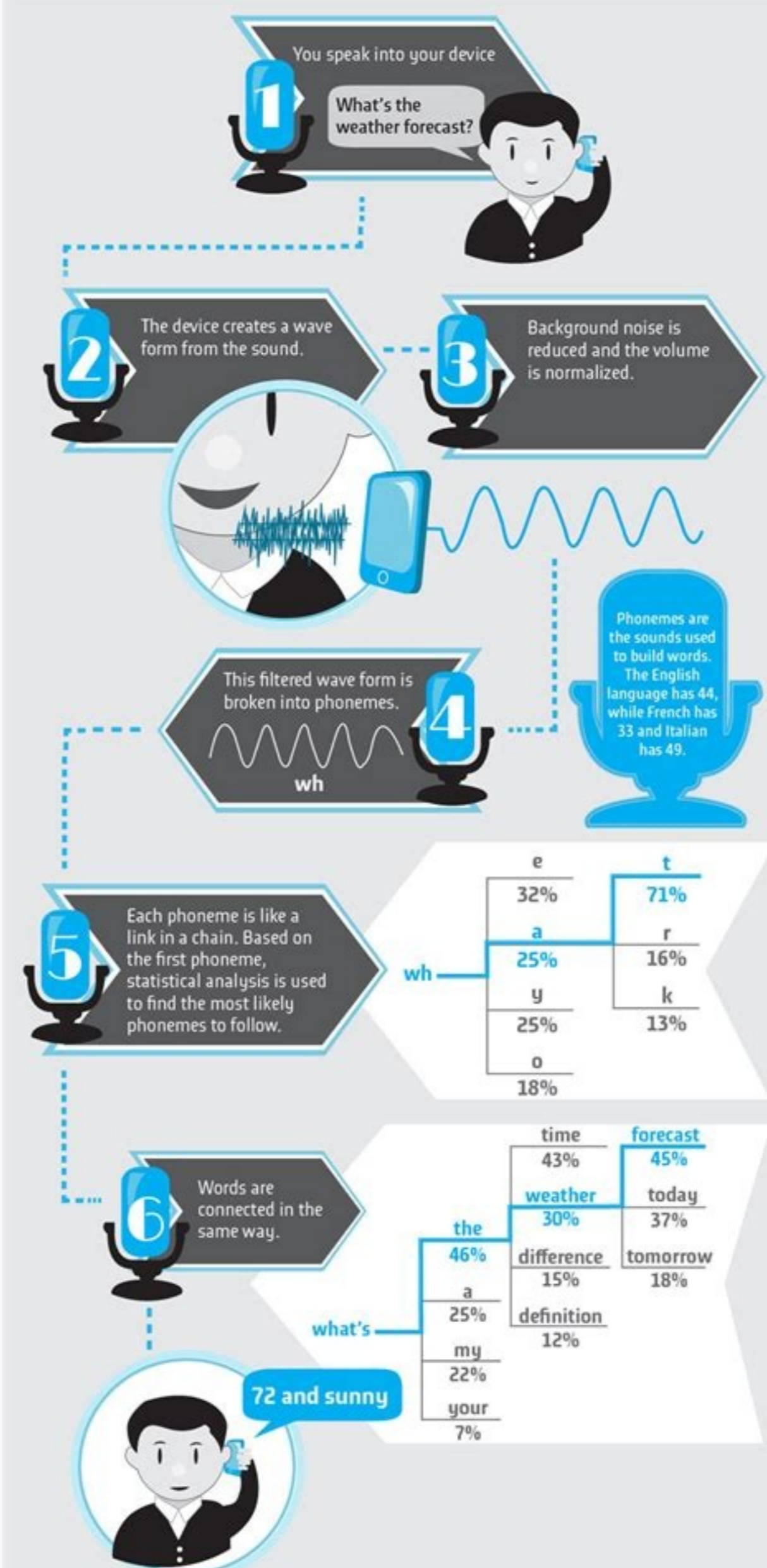
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Examples of ASR: Putting it all to Work

A directed dialog conversation

Which of the following would you like to do? You can say 'check my balance', 'make a payment', 'change my account' or 'more options'.

Check my balance

Your balance is...

A natural language conversation

How can I help you?

What's the weather forecast?

72 and sunny

ASR can be used in different ways. Two examples you've probably experienced are directed dialog and natural language. Directed dialog ASR systems ask you to choose from a set 'menu' of choices. Natural language systems can have more open-ended 'conversations' with you.

So How Does Natural Language Work?

Does he mean 'weather' or 'whether'?

YES NO

Context clues from other words can help narrow down which word is being used. The word 'forecast' helps the program determine that the word 'weather' is being used, instead of the word 'whether'.

The larger the vocabulary of the program, the more training it needs to work with the same speed as a program with a small vocabulary.

If you say three words to a program with a 60,000 word vocabulary (which is common), there are a possible 216 trillion combinations for it to process.

Rather than searching the entire vocabulary for each word and processing them separately, natural language systems react to certain 'tagged' words and phrases like "weather forecast", "check my balance" or "pay my bill".

Good morning phone, what's the weather forecast for today so I know what to wear

The Tuning Test: How Voice Recognition 'Learns' From You

I always learn so much from our conversations.

ASR systems can either be 'tuned' by humans, or they can learn on the fly through 'active learning'.

Tuning

Programmers and linguists can manually review logs to identify opportunities to teach the system words and phrases that are becoming more commonly used. Think of it as adding words and phrases to the dictionary. This process is called 'tuning'.

Active Learning

As with your phone's auto-correct, data is stored from past interactions as the program gets to know the words, and combinations of words, you most often use. Likewise, if an auto-correct is repeatedly denied, the system will begin to treat the 'incorrect' word as a word in its own right.

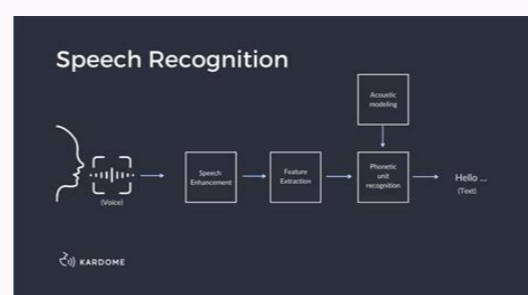


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"Google buys British startup for artificial intelligence for £ 400 million." Guardian. ISSN 0261-3077. Renovated on June 22nd, 2023. ^ "Text-to-Dispech ai: synthesis of realistic language". Google Cloud. Renovated on June 22nd, 2023. External link recognition and language synthesis in Google Play, extracted from " Manage Most Miniatur-Miniatur-Mikromaschinen. Each has dramatic details, beautiful irrigation, precise painting and moreBuild the world of micromasses. Sets of games with micro machine pockets are so small, so accurate, so great that you want to wear them in your pocket. Micro-mascans are pocket sets for micro-fressure games that are sold separately in Galoob. The smaller they are, the better. We show that the use of such a large and diverse set of data leads to an increase in accents, background noise and technical language. In addition, it enables transcription into several languages, as well as translating these languages into English. We open models and the output code that will form the basis for creating useful applications and more in research on the treatment of resistant speech. Whisper architecture is a simple approach, implemented in the form of a coder converter. The input sound is divided into 30-second fragments, converted into spectral spectral and then sent to the code. The decoder was created to predict an appropriate text legend mixed with special tokens that control the unique model of performing such tasks as language identification, temporary sentence label, multi -axis speech transcription and speech translation into English. , more intertwined sets of audio teaching, [^Ref-1] [^Ref-2] [^Ref-3] or use a large but uncontrolled sound. [^Ref-4] [^Ref-5] [^Ref-6] Because WHISper has been investigating in an important and diverse set of data and has not been optimized for a specific set, does not exceed models specializing in Librisreisech performance. Speech recognition link.

However, when we measure Whisper Whisper's performance on many different data sets, we see that it is much more reliable and causes 50% less errors than these models.