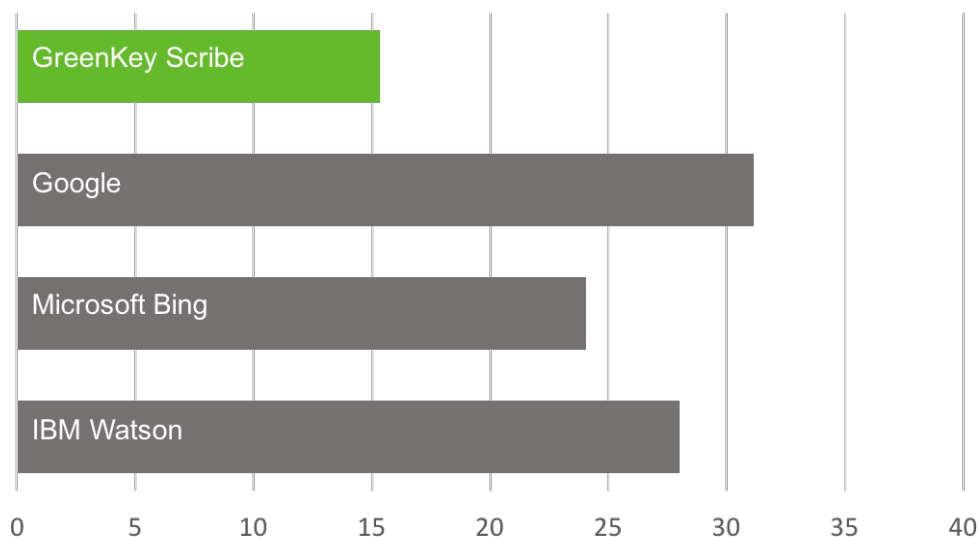


Accuracy Benchmarks for Speech Recognition Engines on Historical General and Financial English Conversations

Financial conversations feature a wide range of topics and are often held in noisy environments. GreenKey Scribe greatly outperforms other engines for these types of conversations by delivering low word error rates (i.e. performing at high accuracy) for noisy, dense financial English.

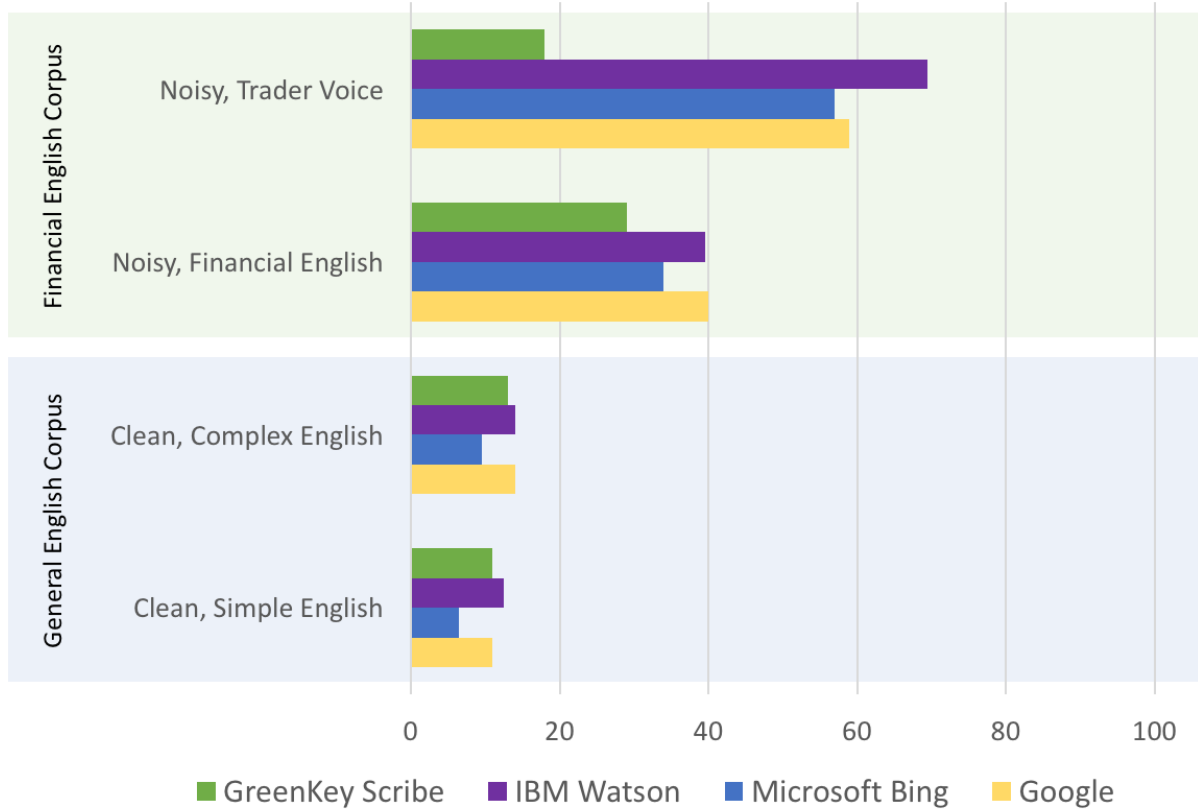
Financial Conversation Benchmark Word Error Rate
(lower is better)



This benchmark considers speech from primarily US and UK accents over a wide breadth of topics, ranging from simple English to complex phrases and trader voice recordings. Noise levels varied significantly throughout the benchmark data set. Note that none of the engines tested were trained on the benchmark data in any form. All tests were run on historical audio files, and the results for all providers will be different for real-time dictation.

The full results for each speech recognition engine on this benchmark database are on the next page, sorted by category, along with examples for each of the categories tested. GreenKey greatly outperforms other engines for dense and noisy, financial English and trader voice conversations and matches or even exceeds the performance of world-class speech recognition engines on clean, general English conversations.

Word Error Rates for Various Benchmark Sets
(lower is better)



CATEGORY	EXAMPLES
Simple English	we have to pull together this is a very common type we will go meet her Wednesday
Complex English	a tenacious researcher who chased down the data keep assembling empirical evidence incredible technology is just the beginning
Financial English	revenues rose by sixty eight point one percent reconciliation of revenues under GAAP and distributable earnings collateralized borrowings and notes payable to related parties
Trader Voice	feb twenty five versus august twenty five bunds eighty two oh eight pay sixes cable threes ones one year twenty and five eights bid