

Differences in Result

Wav file		script	IBM-Watson	Kadho	Google-speech
0058.wav	Result	신 과일은 뭐야?	P. C.는 파일은 뭐야	신 과일은 뭐야	신 과일은 뭐야
	Pronounce	Sin kuailun muaya	Pisinun pailun muya	Sin kuailun muaya	Sin kuailun muaya
0028.wav	Result	손톱을 왜 잘라?	손톱을 왜 짤라	손톱을 왜 탈락	손톱을 왜 달라
	Pronounce	Sontopul wue jalla	Sontopul wue jjalla	Sontopul wue tallak	Sontopul wue dalla
	Meaning	Why cut your nails?	Why cut your nails?	Why nails are fail?	Why nails are different?

IBM-Watson

There is a tendency to write the letters as they are pronounced.
It also judges only the pronunciation regardless of the sentence context.

Kadho

Because it is the api which analyzed the pronunciation characteristic of the child, it can see the correction to the specific pronunciation.

Google-speech recognize

After judging the pronunciation, it tends to judge the word as a word suitable for the context.
There is no preparation for children's pronunciation mistakes.

Accuracy comparison

		IBM voice to text		kadho		google cloud speech API	
		Without	With white space	Without	With white space	Without	With white space
Minji script	Minji	60.23%	60.78%	90.99%	91.81%	72.34%	90.23%
	Junyoung	36.51%	52.79%	72.48%	91.98%	72.95%	92.15%
	Bumjun	36.86%	70.58%	70.12%	84.63%	70.00%	87.70%
Junyoung script	Minji	47.41%	65.02%	85.16%	96.06%	85.42%	96.48%
	Junyoung	37.88%	52.70%	84.46%	93.51%	83.51%	92.66%
	Bumjun	39.23%	53.54%	83.16%	93.33%	83.29%	92.32%
	Juhee	17.47%	30.73%	84.39%	92.06%	86.70%	94.30%
Bumjun script	Bumjun	51.26%	72.66%	84.91%	96.65%	83.56%	95.67%
	Minji	48.20%	67.13%	79.67%	86.59%	80.35%	95.10%
	Junyoung	47.41%	70.58%	78.82%	93.96%	78.88%	93.95%
	Yunjung	47.41%	28.56%	76.39%	92.99%	76.86%	93.01%
Average		42.72%	56.82%	80.96%	92.74%	79.44%	93.05%