

Universiti Teknologi MARA

**Learning Makhraj for Children by
3D Visualization**

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IN THE NAME OF ALLAH, THE MOST GRACIOUS, THE MOST MERCIFUL

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ABSTRACT

Learning pronunciation with multimedia element is one of the teaching pedagogy in improving the pronunciations. In language development, it is also a practical tool and useful in learning especially to children. The objectives of our research/project are to show the movement in Makhraj Pronunciation and to develop a 3D visualization for Makhraj Pronunciation. Makhraj is the correct position of organs of speech in order to produce a letter so that it can be differentiated from others. The children just know how to pronounce the Arabic letter but not properly in the Makhraj pronunciation. The project will use 3D visualization and 2D animation to show the Makhraj pronunciation with correct voice and movement in Makhraj pronunciation. The application is 4 supplement materials in mastering their/pronunciation learning-at-home as it bring5a lot of benefits to^eduGational-field. °

Keywords: Active learning, Makhraj, 3D Visualization, Pronunciation Arabic letter

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