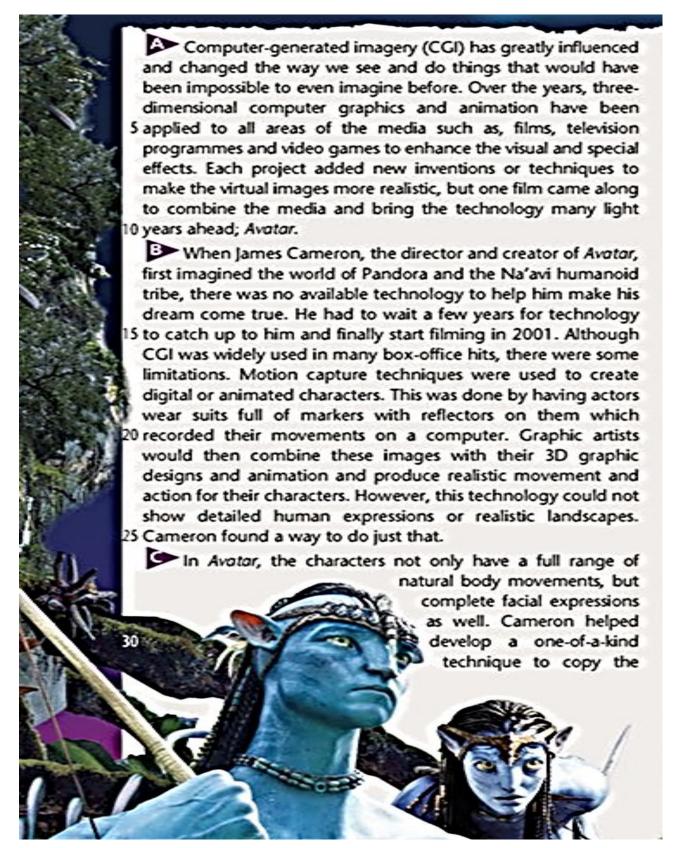
Computer generated imagery	[kəmˈpjuːtə ˈdʒenəreɪtɪd ˈɪmɪdʒ (ə)ri]	Компьютерные <u>изобра</u> <u>жения</u>
Three – dimensional	[θriːdɪˈmɛnʃ(ə)n(ə)l]	Трехмерный
Visual effects	[ˈvɪʒ(j)ʊəl ɪˈfɛkt]	Визуальные эффекты
Virtual image	[ˈvəːtʃʊ(ə)l ˈɪmɪdʒ]	Виртуальное изображение
Reflector	[rɪˈflɛktə]	Отражатель
Headgear	[ˈhɛdgɪə]	Шлем
Integrate	[ˈɪntɪgreɪt]	Интегрировать
Simulation camera	[sɪmjʊˈleɪʃən ˈkam(ə)rə]	Имитационная камера
State – of – the art technology	[ˌsteɪt əv ðɪ ˈɑːt tɛkˈnɒlədʒi]	Современная <u>технолог</u> ия

Sci-fi films A new demension to art



movements of lips, eyes and mouths. Actors were given special headgear to wear equipped with a camera. As a result, every muscle and eye movement was recorded and used to make the digital characters in the film truly authentic and lifelike.

To make the world of Pandora even more realistic, many fields of knowledge were used and integrated with art. Experts in biology, engineering and physics worked closely with talented artists and illustrators to create this magnificent world. Great attention to detail was applied to 4 each creature, character and the surrounding environment, including every plant and leaf. Somehow, that wasn't enough for the director; he had to take it a step further.

After years of dreaming about it, Cameron developed the first 3D camera that combined the live action scenes 4 with the computer-generated scenes. Video-gaming technology was used along with a virtual camera and a simulation camera to create a virtual production stage for the director through a computer. But how is that possible, you might ask? CG images were sent to the virtual camera 5 while the simulation-cam combined CG characters and the designed environments into the 3D Fusion camera. After all, fusion means to join many things together to make one. All the director had to do was look through the eyepiece and direct these virtual scenes as if he would a live action scene. 5 This had never been done before. With the use of state-ofthe-art technology, a strong team of experts and creative artists and loads of imagination, the director had managed to interact with and control every aspect of the virtual film he was directing.

The film, Avatar, with its 3D effects, managed to absorb the audience into the world of Pandora and give them a feeling of interaction like that of a video game. While video games have not succeeded yet in creating such realistic 3D worlds for players, the ground breaking technology used in the film will certainly lead the way. The same teams that worked on the film released a 3D Avatar game, but they are also working on improving the three dimensional experience for future projects.