

Scientific illustration and Computer Graphics of exoplanets in *Exo Kyoto*' s extrasolar planet catalog

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The Exoplanetary database ExoKyoto possesses several different components concerning the habitability, together with the illustration of newly discovered planets. In this platform we generate texture of ocean planets for most of the cases, assuming that the surface of those planets are covered with the similar type of terrestrial ocean. The texture are selected based on the estimated physical characteristics of discovered exoplanets. In addition to these scientific images, we make 3D animation with the adobe After effects plugin, OPB which supports physical base shading and implements bump mapping and environmental reflection. The adjustable parameters are 3D objects, Radius, Position, Rotation XYZ, Material, Maps, UV, Render etc. Users can create realistic planets by adjusting these parameters. In this study we' ll discuss the motivation and scientific validity in using such imaginary ocean planet for the scientific outreach purpose.

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