

Web References to Barycentric Coordinates

Supplement for Math 331

February 1, 2002

The following is a short list of web references on barycentric coordinates found quickly with the search engine *Google*¹.

Ken Joy's *Online Computer Graphic Notes on Barycentric Coordinates* ²

Eric Weisstein's World of Mathematics ³ Weisstein's World of Mathematics at Wolfram is often a good place to look for mathematical information on the web.

Alexander Bogomolny's Barycentric Coordinates ⁴ With a reference to Ceva's Theorem.

Paul Wiu has a formal article. ⁵ An article presented in PDF format, not HTML, entitled *The Uses of Homogeneous Barycentric Coordinates in Plane Euclidean Geometry* (There appear to be rendering glitches in my PDF reader.)

John Conway's extensive comment on Trilinear vs. Barycentric Coordinates ⁶ Part of a rather advanced discussion at The Math Forum. Conway compares several different ways of using the vertices of a given triangle to spawn a coordinate system in the plane.

References to this course as presented in the Spring of 1999 ⁷

Line segments and triangles⁸

Affine maps and transformations⁹

Affine map with prescribed values¹⁰

Distance-preserving affine maps¹¹

Change of barycentric coordinates¹²

Document network location for HTML:

<http://math.albany.edu:8000/math/pers/hammond/course/mat331/baryc.html>

¹URI: <http://www.google.com/>

²URI: <http://graphics.cs.ucdavis.edu/GraphicsNotes/Barycentric-Coordinates/Barycentric-Coordinates.html>

³URI: <http://mathworld.wolfram.com/BarycentricCoordinates.html>

⁴URI: <http://www.cut-the-knot.com/triangle/barycenter.html>

⁵URI: <http://www.math.fau.edu/yiu/barycentric.pdf>

⁶URI: <http://mathforum.org/epigone/geom.research/skaxwhesex/199807010124.VAA15757@jupiter.netdepot.com>

⁷URI: <http://math.albany.edu:8000/math/pers/hammond/course/mat331s99/>

⁸URI: <http://math.albany.edu:8000/math/pers/hammond/course/mat331s99/assgt/tg990201.html>

⁹URI: <http://math.albany.edu:8000/math/pers/hammond/course/mat331s99/assgt/tg990203.html>

¹⁰URI: <http://math.albany.edu:8000/math/pers/hammond/course/mat331s99/assgt/tg990208.html>

¹¹URI: <http://math.albany.edu:8000/math/pers/hammond/course/mat331s99/assgt/tg990210.html>

¹²URI: <http://math.albany.edu:8000/math/pers/hammond/course/mat331s99/assgt/tg990217.html>