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Complex Analysis and Conformal Mapping
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Handbook of Conformal Mappings and Applications
For any point z 2D for which $f'(z) \neq 0$, this mapping is conformal, that is, it preserves the angle between two differentiable arcs. Example: Let D be the rectangular region in the z plane bounded by $x = 0$, $y = 0$, $x = 2$ and $y = 1$.

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Conformal mappings can be effectively used for constructing solutions to the Laplace equation on complicated planar domains that are used in fluid mechanics, aerodynamics, thermomechanics, electrostatics, elasticity, and elsewhere. We assume the reader is familiar with the basics of complex numbers and complex arith-

Numerical Conformal Mappings for Regions Bounded by Smooth ...
A guide on conformal mappings, their applications in physics and technology, and their computer-aided visualization. It considers a wide array of applications, among which are the construction of a Green function for various boundary-value problems, the impact of a cylinder on the surface of a liquid, and filtration under a dam.

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In fact, the literature abounds of handbooks and collections of conformal mappings satisfying such conditions and enabling the description of a plethora of domains [49,50,51] [e.g]. In case of polygonal domains, the map can be even constructed geometrically [34]. ...

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