Upper half plane is not euquivalent to plane

Consider upeer half-plane: $\mathbf{H}\colon\{(\mathbf{x},\mathbf{y}),\mathbf{y}>\mathbf{0}\}$ and all the plane $\mathbf{C}$. They are not holomorphically equivalent, i.e. it does not exist analytical bijection $\mathbf{H}\leftrightarrow\mathcal{C}$. Indeed $\mathbf{H}$ is holomorphically equivalent to disc $D_2\colon\{(x,y),x^2+y^2<1\}$ (Klein map). This implies that disc is eequivalent to $\mathbf{C}$. Let $F\colon\mathbf{C}\leftrightarrow\mathbf{H}$. Then F is analytical bounded function on $\mathbf{C}$, and due to Lioville Theorem F maps $\mathbf{C}$ to the point.

`Really crazy effective application of Lioville theorem!!!`