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$\mathbb{C}$ -analytic spaces of dimension 1

A **compact Riemann nodface** X is a connected topological space along with a finite subset $\text{sing}(X)$ such that

- for every $z \in X \setminus \text{sing}(X)$, there is a nb U_z with homeomorphism $z : U_z \cong D^2$
- for every $z \in \text{sing}(X)$, there is a nb homeomorphic to a nb of $(0, 0)$ in $Z(xy) \subseteq \mathbb{C}^2$

and for each U_{z_1}, U_{z_2} the transition function

$$U_{z_1} \rightarrow U_{z_2}$$

is holomorphic.

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And it has 4 siblings.

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