

$$x + iy \gamma = x:y u + i x:y v$$

$$\mathfrak{h}_{\mathbb{R}} \xrightarrow[\text{diff}_{\mathbb{R}}]{u:v} \mathbb{R}$$

$$\partial_{x:y} (u:v) = \frac{\partial_x u \mid \partial_x v}{-\partial_x v \mid \partial_x u}$$

$$\partial_{z^*} \gamma = 0$$

$$\partial_z \gamma = \partial_x \gamma = -i \partial_y \gamma$$

$$\text{diff}_{\mathbb{C}} \gamma = u + iv \Rightarrow \overline{\partial_{x:y} (u:v)} = \overline{\partial_z \gamma}$$