

2.7.9 (default, Dec 10 2014, 12:24:55) [MSC v.1500 32 bit (Intel)]
geo_test.py

===== Point & Rectangle Tests =====

r = fitz.Rect(10.0, 20.0, 100.0, 200.0)

p1 = fitz.Point(10.0, 20.0)

p2 = fitz.Point(100.0, 200.0)

p3 = fitz.Point(150.0, 250.0)

fitz.Rect(p1,p2) = fitz.Rect(10.0, 20.0, 100.0, 200.0)

fitz.Rect(p1, 100, 200) = fitz.Rect(10.0, 20.0, 100.0, 200.0)

fitz.Rect(10, 20, p2) = fitz.Rect(10.0, 20.0, 100.0, 200.0)

r.includePoint(p3) = fitz.Rect(10.0, 20.0, 150.0, 250.0)

r.includeRect(fitz.Rect(100,200,110,220)) = fitz.Rect(10.0, 20.0, 110.0, 220.0)

include an empty rectangle: no change

r.includeRect(fitz.Rect(0, 0, 0, 0)) = fitz.Rect(10.0, 20.0, 110.0, 220.0)

include an infinite rectangle: infinite

r.includeRect(fitz.Rect(1, 1, -1, -1)) = fitz.Rect(1.0, 1.0, -1.0, -1.0)

===== Matrix Tests =====

All of the following should be (close to) zero:

$|\text{rot}(90) - \text{rot}(45)*\text{rot}(45)| = 8.42936970218\text{e-}08$

$|\text{rot}(45)*\text{rot}(-45) - \text{Id}| = 2.10734242554\text{e-}07$

$|\text{rot}(45) - \text{inv}(\text{rot}(-45))| = 2.38418579102\text{e-}07$

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