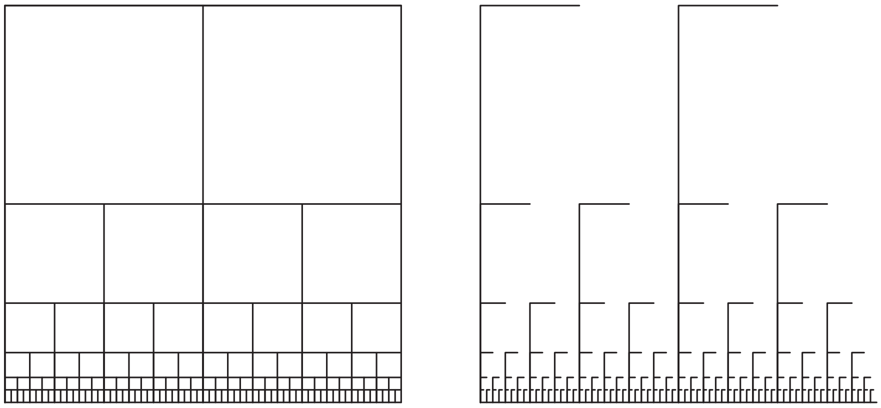

Figure 14.1.10: (A) Union of two dendrites, a non-hlc Boxes Continuum

$$B_{n,m} = \left\{(m \cdot 2^{-n-1}, y) \in \mathbb{R}^2 : 0 \leq y \leq 2^{-n}\right\};$$

finally, let

$$X = \left[\bigcup_{n=1}^{\infty} A_n\right] \cup \left[\bigcup_{n=0}^{\infty} \left(\bigcup_{m=0}^{2^{n+1}} B_{n,m}\right)\right].$$

1) X is an example of an non-hlc continuum which is not regular.
2) X is the union of two regular continua.
See Nadler 10.38, p.186.

14.2 New examples 2

New examples are nice.

14.2.1 Graph $K_{3,3}$

Graph $K_{3,3}$ is a not embedable in $\mathbb{R}^2$.

14.2.2 Graph K_5

Graph K_5 is a simple continuum.

14.2.3 Space Filling Curve

Space Filling Curve is a strange continuum.