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**Title:** A family of temporal logics on finite trees

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We associate a temporal logic  $\text{XTL}(\mathcal{L})$  with each class  $\mathcal{L}$  of (regular) tree languages and provide both an algebraic and a game-theoretic characterization of the expressive power of the logic  $\text{XTL}(\mathcal{L})$ .

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