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We introduce Hopf categories enriched over braided monoidal categories. The notion is linked to several recently developed notions in Hopf algebra theory, such as Hopf group (co)algebras, weak Hopf algebras and duoidal categories. Several classical properties from Hopf algebra theory generalize to Hopf categories, such as for example the fundamental theorem for Hopf modules. (Received August 18, 2014)