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this session covers the basics of numpy the package that underlies most scientific computing done in python it will explain the numpy array which is the principal data type in numpy and how it differs from similar python structures like lists there will be particular emphasis on understanding the two core features of numpy arrays vectoriza web approximately the value of $f(x)$ take the taylor polynomial of degree n for f centered at x_0 and evaluate it at x but beware that when n grows a taylor series converges rapidly near the point of expansion but slowly or not at all at more remote points web course content the course gives insight into theory and algorithms for fundamental mathematical problems associated with systems of equations optimization and approximation of functions there are many applications for example the representation of geometry images and more generally large data sets applications in various areas of web 14 apr 2020 page 4 series in computational physics steven a 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