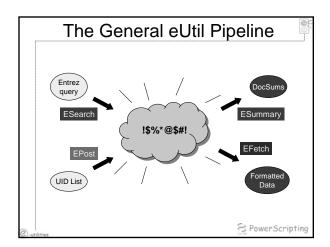
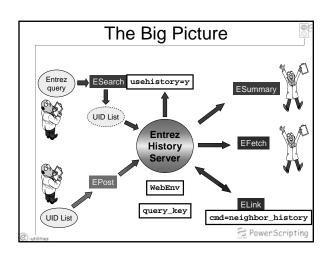
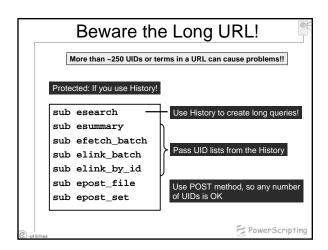
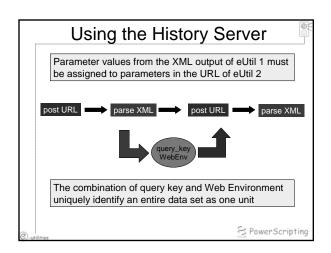


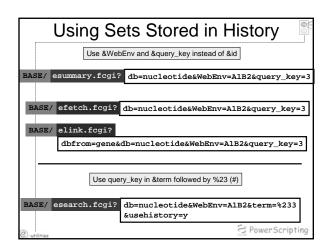
Overview • General pipeline strategies • Building pipelines using the Entrez History • The Four Basic Pipelines • UID List Operations

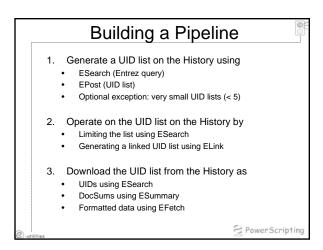


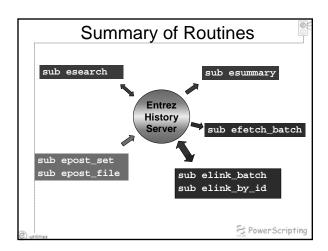


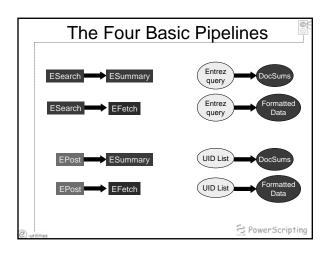


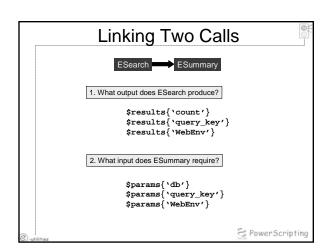


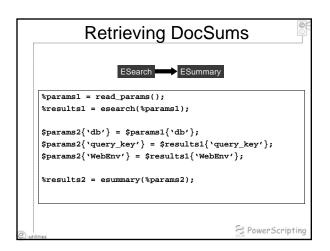


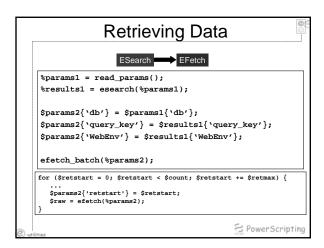


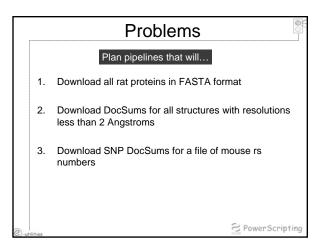


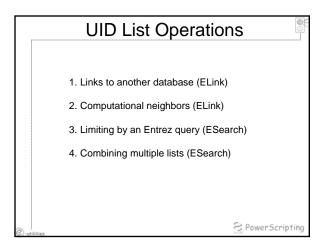


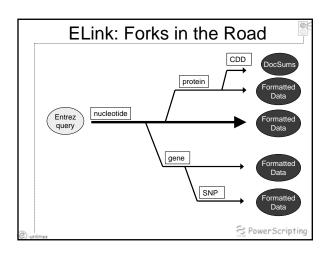


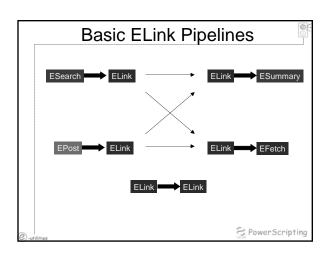


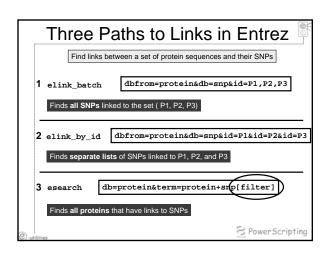




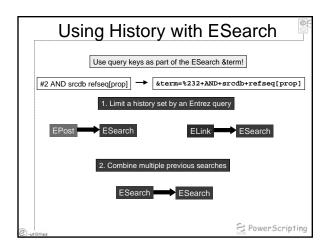


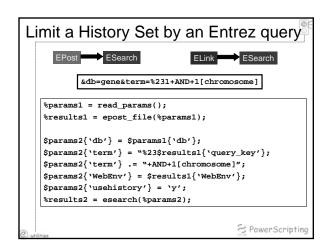






Problems Plan pipelines that will... 1. Given a file of PubMed IDs, download a single set of linked nucleotide GIs 2. Download Gene XML records for all mouse genes that have SNPs 3. Given a file of zebrafish Unigene cluster IDs, download Genbank flat files for nucleotide records linked to each cluster





Problems Plan pipelines that will... Given a set of Conserved Domain IDs (PSSM-IDs), find all RefSeq proteins that contain each domain Given two protein GIs, download DocSums for all proteins that are sequence-similar to both proteins Given a file of protein accessions, determine how many are from human

S PowerScripting

S PowerScripting

A General Design Approach Now what you want before you begin Do I need the full record? (EFetch) Will a DocSum be sufficient? (ESummary) Know what Entrez database contains the data you want If it's not in Entrez, the eUtils can't access it Try your pipeline in interactive web Entrez first Some Entrez queries may surprise you Some Entrez data may surprise you Some Entrez links may surprise you Build your pipeline from the paired eUtil elements Keep track of the output and input What output does call 1 produce? What input does call 2 require?