- you get to make your own tops (or you can use an existing tag set to solve a fasticular problem)

- to structure and describe information

Related MM technologies -X Beth (extensible both looploge) = libe query longue, sal (xavery/xbointer)

- used to extract date from inside on x the file

- use a path-libe syntax ("drive" /folder/file file") /html/head/title \*XSLT (extensible Stylesheet language Fromsformations)

- styling language that take Ame file and transforms it into something abstraction

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XML documents 1807 - noteped, Tentped, BEtdit. - AbAdde Dreamweaver - Altora KMLSky - MS Visual Web Developer Express working with date island = (a feature z embed X xml info. directly into welfage and connect find.

It to be layout elements) - Knlitery do so Boalso. avariety of elements can be used to find to the content of Data channess islands

(A, APPLET, BUTTON, DIV, FRAME, I FRAME, IMB, INPUT (button, checkbox, hidden, password, hadis, text), LABEL, LEGEND, MARQUEE, SELECT, SPAM, TABLE, PASSWORD, HARBUEE, SELECT, SPAM, TABLE, - can control the amount of date displayed by ( date page size ) attribute - can also be found to non-table elements and display just one record at a time DOM - independent of platform, bronder, language -a true structured document and allows access to objects in tree - all xml content (elements, comments, powering instructions, content, ...) as object (node) has parent-child publiship Document Object model -& treated or object - Dom very terms ( parent, child, citling, at ancester, descendant, ... to relate modes) vsedin axis = relationship between context not and node selected by x peth > (predicate further refinement you can make to selection process, proce htm) descendent hund state willing "downt tropped"

= Imprilant o Om node properties = Description "# text" "# text" Property/Furction node Name node Type in integer] Array of child mades child Hodes · parentarde parentHode array of attribute for convert note First Child, lastchild next sitling, previous litting attributes remore " appendchild () insertner" & before child remove child (1 reflece wood with a new see wood insept Refore () reflace Child () 2 Important document properties = description Gropinty / function documents host node create vew element to binserted into document document Element creatiblement () creek vew texthody chet her comment node matiTopHody) creat new CDATA section node Returns away of element nodes that metal given top name creaticonment! create CDATA Section (1 return reference to element object in document given ID to book for. getElementsCyTagiName() get Element by Id (1 getattribute = a superence to documents host node setattribute = creek a new sockerlement forderents: get Elenet By Tolkome() = returns array of clement nodes that notif the given tag neme investigation of the given element
ent, connect a de NATA for Text, comment, and CDATA modes: data = text date of the node

< | aml version = "1.0" encoding = "ig-8" !> < 9 aml-stylesheet type="text/css" blef="Firstxonlfile.css" > - knowing instruction (Fishtag) This is our first XML file and . , xml Firstpoltile. US E deploy: block; fried; font-size. Large; color: Blue; < ? rend versein = "1.0"? > huf="furinssend.css"?>>> (Priminstand) (Maris) Jol havon (/Name) < then type "more" phinaly "prinal" </ rand (Musinsad) buismod. CES Barians Card & shore: before (content: atthe (type) ":") Sphore Eprimery]: spter (content: "("attr (princy)")") ensil: before (content: "omid:")

working with date islands · Intent Exert to the "items unt" ( body) (items)-items/ (noine) - - < /type? < photo photo they or you < 1 porto 7 (take datas/2e = "#trytateurebletsome". letelphright id = "product Table" date she = "# my Xorl Date Source (1thead7 Te some (ing detaild="flats"/> (thody) Etis Ling datefld = Khito"/> (spon satefld = "nami" /> 27d7 sopen dateful =" name"/>

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/ spind wot tog is abcument it is nowed. "hoot tog"

/ hoot tog? " " ", but only if it is nowned. "hoot tog"

how down x Path examples -1/ element a > find all element a tops, wherever they appear in the file (text() > selects text content of current on mode @ name => selects "name" attribute government mode (doc/chapter(5) /section(2) > select second section of fifth chapter of the doc body/p[last()] > select last"p" tag in the "body" tag

(tell) | > select farent of current node the body for /html/body/p[@clan="a"] => select all "b" tags in fody under html tog that have also attribute hore of "tags in fody under html tog that have also attribute hore of "a" value is "a" value is "a" value is "a" //p[@clanard@style] => select every "p" tagin document that has both clan attributional style] XCLT- similar to CSS but a little bot deperent, of

- CSS on rules that are applied to elements

- CSS on rules that are applied to elements 1 = XSLT uses templates that transform a source true into a result tree. - (2st: template) Name="name" motch="xpeth">
- (out: value-of select="xpeth">
- (out: value-of select="xpeth">
- (out: attribute) NSLTelement = Told: stylisherty - crest: for-lack select="kpath">
- (rest: for-lack select="kpath">
- (rest: y) test="condition"> Lest: choose) - (zyl; when) - (xsl: otherwise)
-(xsl: sort select="xpath"> -(x): cell-template name = "template name">

(8 gent version="1.0"?) (nst: styligheit sembors: sist = "/CimbleTae")

(nst: styligheit sembors: sist = "/CimbleTae") ( my : template match = " ( Simplifag" > < html> < head> - ASLT example </sel: stylesheet 7 < 9 rend version = "1.0"? > < 9 rend-stylesheet type = "text/bod" buf = "simple. rest" > < 9 rend-stylesheet type = "text/bod" buf = "simple. rest" > (SingleTag) gello! (SingleTag)

( and mi= 7.019) Pusinford & [! ELEMENT Buinford (Nem, phone +, Rmail?)> <! ELEMENT Home (#PCDATA)> (! ATTUST phone type (mobile | fan | work | home) # REQUINED> (! ELEMENT / (#PCDATA)> sere (file dtd). (!ELENENT email (#PCDATA)> SYSTEM " File. dtd" 37 ( Jusin Eard) ( Home) Tre (1 Ham) < phontsype = "motil">47-< from type="north"> 800. Lenail joi (pg. com ( pensil) ( Musicandard) XML Scheme #definition = XSD - alternative to using DTD content of xML documents, just like DTD

- allows you to constraint content of xML documents, just like DTD

- more porestful (much finer level of control)

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(nocheone and xML fich are advants stored separately) ( risd: Achema xulus: " risd = " http://www.v12.org/2001/xml.Scheme" > ( risd: element name = " hout-tag" > written using xmi syntax (25) (25d: attrifute neme = "attribune" type = "type" 1> (1 resd: element) (/resd: scheme)

Scheme dements; mapoceum = "5" ) procentance g element ( resd: string ryd: brolean and : decinal red: inter psd: positivitique Ald: Matiritalegu Msd; dete Md: time XId: date Time red : ghouth md: gyear x1d; & Day ord; great note Kid: nestriction NSd: enumeration Md: pattern And; amylype ( and : complexitype) < red; attribute nam = -../> Lysd: seguence - > > SAX (Single API for XMY) -takes on pass over document from start to finish - once SAX starts, it goss through all the way to thread - SAX tells you each time it encounters a certain kind of document content 1) write handler functions that will process each type of XML date (clement, CDATA, etc.) Creek SAX perser instance load Amedate to be parsed and handit off Read church & X AL Date