

# Tusk Structure

There are two directories used by TUSK. One is the TUSK code which resides in [/usr/local/tusk](#) and the other is the data which resides in [/data](#).

## TUSK Directory Outline (/usr/local/tusk/current)

Directory	Description
/DOC2XML	Files needed to build a DOC2XML machine
/PPT	Files needed to build a PPT machine
/addons	Files for add-on software TUSK including Forums, Shibboleth and ICS templates
/bin	Directory of command-line tools for administering tusk
<a href="#">/code</a>	Web based code behind TUSK
/conf	Apache configuration file and mod_perl startup script
/graphics	Static images used by TUSK (not content)
/install	Scripts to help install TUSK
<a href="#">/lib</a>	Perl modules behind TUSK including data access layer
/logs	Apache, shibboleth, and other log files
/mason_cache	Masons caching area
/ocw	Files to drive the Open Course Ware project

## Code Detail (/code)

/code/api	Emberl pages to accept and return calls from third party products
/code/caper	Code for caper website (unused at external schools)
/code/caperctl	Code for caper website (unused at external schools)
/code/embperl	Includes for hsd4, hsd45 and htdoc pages
/code/forum	Perl front end for discussion groups
/code/hsdb4	Directory with primary non-school-specific embperl pages
/code/hsdb45	Directory with school-specific embperl pages
/code/htdocs	Front page, other standard pages (404 etc.)
/code/liver	Code for liver website (unused at external schools)
/code/media	Media test files
/code/perl	Perl based scripts
/code/secure	Emberl based https scripts
/code/style	Stylesheets
/code/tusk	Directory with mason pages
/code/tusk_no_session	Mason directory without session information (utilities).
/code/XSL	Stylesheets for transformations of XML into HTML, PDF etc.

## Perl Modules Detail (/lib)

Directory	Description
/lib/Apache	A combination of standard and hsd4 (tusk) Apache modules. Including Apache handlers which control access to content, cookies, eval XML and images.
/lib/Forum	Libraries which provide central logic to drive the functionality of the discussion groups.
/lib/HSDB4	Core libraries providing and controlling access to parts of the database that are not school-specific, including control for core functionality like user, content, search, XML, etc.

/lib/HSDB4/SQLRow	Modules that map objects to database tables/records
/lib/HSDB4/XML	Set of XML processing classes
/lib/HSDB45	Core libraries providing and controlling access to school-specific databases and functionality, including course, eval, time period, schedule, etc. Also including authentication and authorization modules.
/lib/TUSK	Core libraries providing and controlling access to tusk database and functionality, including assignments, quizzes, cases, new evals. It also includes new SQLRow object and application wrappers.
/bin	Directory filled with command-line scripts for managing TUSK. Many scripts are being moved to the web-based tools

## Open Source Software included in TUSK Distribution

DHTML Calendar used in CMS	<a href="http://www.dynarch.com/projects/calendar/">http://www.dynarch.com/projects/calendar/</a>
Apache::Ticket for Cookie handling	<a href="http://modperl.com:9000/book/chapters/ch6.html#Cookie_Based_Access_Control">http://modperl.com:9000/book/chapters/ch6.html#Cookie_Based_Access_Control</a>
JavaScript browser detection	<a href="http://www.mozilla.org/docs/web-developer/sniffer/browser_type.html">http://www.mozilla.org/docs/web-developer/sniffer/browser_type.html</a>
DBIx::FullTextSearch for Indexing documents	<a href="http://search.cpan.org/~tjmathier/DBIx-FullTextSearch-0.73/lib/DBIx/FullTextSearch.pm">http://search.cpan.org/~tjmathier/DBIx-FullTextSearch-0.73/lib/DBIx/FullTextSearch.pm</a>
MwForum for forums	<a href="http://www.mwforum.org/">http://www.mwforum.org/</a>

## TUSK Data Outline (/data)

Directory	Description
/forum_data	Data files for the forum package
/html	Bulk of the TUSK managed content files
/mysql	The mysql DB behind TUSK
/ppt	Area containing PPT files to be processed by PPT converter
/streaming	Files for streaming data
/temp	Temporary location for files which are being uploaded
/TUSKdoc	Area containing doc files to be processed by DOC2XML

All data in /data must be shared between all web servers in a cluster  
 /html & /streaming must be shared between web servers and streaming server (if external streaming server is used)  
 /mysql is only needed by DB server

## Data HTML (/data/html)

Directory	Description
downloadable_file	Contains files which can be downloaded by TUSK users
fop-pdf	FOP PDF generated files
fop-xml	FOP XML source files
HSDB-doc	Legacy EPS and TEX files
images	Location for uploaded image files
ramfiles	Location for .ram files
shockwave	Location for swf files
slide	Location for slides of various sizes (converted from PPTs by PPT converter)
smil	
web	
web-auth	