

TWiki > DICE Web > ResearchAndTeachingUnit > TeachingSoftware2017 (04 Jul 2018, RichardBell)

## Teaching Software requirements 2017/18

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The project is now complete - see [TeachingSoftware2017Report](#)

### Key

field	purpose
Course	Course Code
Semester	Taught in Semester
Lecturer	Course Lecturer
Software	Software required for course
Change/no change/new	Version changes or new software
Status	Upgrade or installation (or not) status
RT	RT ticket relating to request
DB	Yes if Theon updated with changes

colour	meaning
<b>New Software</b>	New software required
<b>New Version</b>	New software version or checks required
<b>No Change</b>	No change this time or all done

### Software Requirements

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Course	Semester	Lecturer	Software	Change/no change/new	Status	RT
<b>AILP</b>	S1	smail	Python 3.4-compatible version of python-igraph	possible new software	Checks required	<a href="#">RT:79551</a>
<b>CP</b>	S1	jcb	gcc, SDL, SDL-devel	Check for SDL2 availability	all installed, environment setup via defenv RPM.	<a href="#">RT:83673</a> <a href="#">RT:84736</a>
<b>ITCS</b>	S2	jcb	Nowt	no change	Nothing required	<a href="#">RT:83674</a>
<b>CD</b>	S1	npt	Xilinx Vivado Design Suite, version 2015.3 (64-bit), USB drivers for connecting ZYBO boards to DICE machines	no change	installed	<a href="#">RT:83675</a>
<b>MLPR</b>	S1	imurray2	Matlab, latest version you can install. Python 2.7 with recent-ish <a href="#">NumPy</a> , <a href="#">SciPy</a> and Matplotlib. Ideally: Python 3.5 with <a href="#">NumPy</a> >= 1.10, + scipy and matplotlib., octave, pandoc, also PS <a href="#">NumPy</a> (and Octave) should be linked to a fast BLAS implementation	Checks needed for versions	py2.7 stack only (rest via pip3); fast BLAS under test and numpy usability	<a href="#">RT:83676</a>
<b>CDI1</b>	S1	mwolters	access to R (I will specify the packages later) and Processing	Need to check R version and availability	processing added; R modules to be self-installed	<a href="#">RT:83677</a>
<b>CDI2</b>	S1	rhill2	access to R (I will specify the packages later) and Processing	Need to check R version and availability	processing added; R modules to be self-installed	<a href="#">RT:83677</a>
<b>THF</b>	S2	mwolters	access to R (I will specify the packages later) and Processing		processing added; R modules to be self-installed	<a href="#">RT:83677</a>
<b>ALE1</b>	S2	helen	Nowt	no change	Nothing required	<a href="#">RT:83680</a>
<b>RSS</b>	S1	zli33	Nowt	no change	Nothing required	<a href="#">RT:83682</a>
<b>PERP</b>	S1	mic	Nowt	no change	Nothing required	<a href="#">RT:83688</a>
<b>INF1-FP</b>	S1	dts	cabal-install ghc and ghci (7.10.2 or later) atom (1.10 or later) and customisation to support Haskell (discussed with Iain Rae last year, [rt #78977]) If possible, all of these should also be available on IS public lab machines and on the PC in George Square Lecture Theatre.	Multiple checks and installs, IS labs too	atom installed. "apm" commands to be provided. ghc upgraded atom upgraded; binary rebuild and exam APM setup needing done	<a href="#">RT:83691</a> <a href="#">RT:84317</a>
<b>ASR</b>	S2	srenals	Kaldi - <a href="https://github.com/kaldi-asr/kaldi">https://github.com/kaldi-asr/kaldi</a> - available both from regular DICE machines and from msccluster. For msccluster is should be compiled to be able to use CUDA. It needs to be compiled against Atlas/OpenBLAS and the openfst library, and would be good if the optional IRSTLM package could be installed to.	Multiple checks and installs	New software and checks required	<a href="#">RT:83692</a>
<b>PPLS</b>	S2	mic	<a href="#">OpenMPI</a> ; present version (1.10.3) buggy	Upgrade to non-buggy version	New software and checks required	<a href="#">RT:83693</a> <a href="#">RT:85618</a>
<b>IPP</b>	S2	mvanross	Nowt	no change	Nothing required	<a href="#">RT:83695</a>
<b>IRR</b>	S1	mvanross	Nowt	no change	Nothing required	<a href="#">RT:83696</a>
<b>NC</b>	S1	mvanross	Neuron and, preferably Octave.	Upgrade of octave required. Neuron is present.	Upgraded; octave checks may be required	<a href="#">RT:83697</a>
<b>NIP</b>	S2	mvanross	Nowt	no change	Nothing required	<a href="#">RT:83698</a>
<b>CSLP</b>	S1	stg	Android studio in the version in the 3.0 series, plus on IS public lab machines if possible.	Upgrade of Android Studio	Upgraded software	<a href="#">RT:83703</a>
<b>SELP</b>	S1	stg	Android studio in the version in the 3.0 series, plus on IS public lab machines if possible.	Upgrade of Android Studio	Upgraded software	<a href="#">RT:83703</a>
<b>FNLP</b>	S2	alex	Python 2.7 or 3.5, NLTK, please provide on IS public lab machines too	Looks like all there (needs to go on IS labs too)	py2.7 stack OK	<a href="#">RT:83705</a>
<b>INF2D</b>	S2	alex	Prolog (so as to run the prolog implmentation of golog) please provide on IS public lab machines too	Looks like all there (needs to go on IS labs too)	prolog is there	<a href="#">RT:83706</a>
<b>BIO1</b>	S1	mhennig	Biopython Jupyter notebook matplotlib, latest stable versions	Check if stable versions can be upgraded	Checks required	<a href="#">RT:83722</a>
<b>BIO2</b>	S2	mhennig	Biopython Jupyter notebook matplotlib, latest stable versions	Check if stable versions can be upgraded	Checks required	<a href="#">RT:83722</a>
<b>IQC</b>	S1	pwallden	Mono and F#, <a href="#">LiQuiD</a> , latest stable versions	Install new packages	Mono and F# installed; <a href="#">LiQuiD</a> prohib by licence	<a href="#">RT:83727</a>
<b>EXC</b>	S1	kheafiel	Hadoop (same as last year should be fine), GNU parallel new enough to use --gnu by default (i.e. not the stale Scientific Linux package), and pv that supports the -d option. Also, "and additional help from a CO."	Possible upgrades	Updated software, Hadoop functioning, Queue to be monitored where possible.	<a href="#">RT:83732</a> <a href="#">RT:81644</a>
<b>CT</b>	S1	cdubach	- CMake Version 3.4.3 or higher, plus extra 30G disk quota per student	Upgrade cmaks plus extra quota	done	<a href="#">RT:83809</a>
<b>PM</b>	S2	jeh	Matlab & Eclipse current versions are fine	no change	Nothing required	<a href="#">RT:84043</a>
<b>ANLP</b>	S1	sgwater	Python 3 (I think 3.4 should be ok) iPython nltk nltk_data numpy scipy matplotlib all upgraded to work with python3	Multiple upgrades plus let Sharon know which nltk	Upgraded software required	<a href="#">RT:84064</a>
<b>INF2A</b>	S1	jrl, scohen	* java and javac (the default versions are fine) * python (again the default version is fine) * Natural Language Toolkit (nltk) - existing versions of all OK.	no change	Nothing required	<a href="#">RT:84305</a>
<b>TSPL</b>	S1	wadler	coqide	New version required	Done	<a href="#">RT:84658</a>
<b>IJP</b>	S1	dcs paul	java-1.8.0-sun, Eclipse, <a href="#">BlueJ</a> , Gluon Scenebuilder	New versions required	Done	<a href="#">RT:83679</a>
<b>TTDS</b>	S1	wmagdy	1. Unix OS 2. Python 3. Perl 4. Excel 5. Indri toolkit: <a href="https://www.lmurproject.org/indri.php#download">https://www.lmurproject.org/indri.php#download</a>	New software required	Need to install indri	<a href="#">RT:84801</a>

<b>AR</b>	S1	jdf	Latest isabelle		Upgrade of isabelle required	Upgrade isabelle	<a href="#">RT:84954</a>
<b>RSS</b>	S1	zli33	'libusb-dev', 'libphidget22' library including the python bindings, 'libusb-dev' as a dependency		Installation of multiple libraries	Library installations	<a href="#">RT:84975</a>
<b>SDP</b>	S2	jeh	Arduinoide (if possible an updated version - currently 1.0.6) Opencv Vic Xawtv Minicom or other suitable Terminal program for serial port use mplayer/mencoder (if possible) ROS Graham Dutton's VLC based video streaming scripts		Upgrade of arduino plus streaming script checks	Upgrades and checks required	<a href="#">RT:85610</a>
<b>INF1-DA</b>	S2	stark	The "Open Corpus Workbench" (ocwb) from <a href="http://cwb.sourceforge.net/">http://cwb.sourceforge.net/</a> It's the "cqp" command-line tool we specifically need. Latest. Command "dia", <a href="#">LibreOffice</a> Draw and Base, <a href="#">PostgreSQL</a> , the <a href="http://pgteach.inf.ed.ac.uk">pgteach.inf.ed.ac.uk</a> server, and the inf1da database there.		Checks required	Just checks of existing stuff	<a href="#">RT:85611</a>
<b>NIP</b>	S2	mvanross	None		Nothing	Nothing	<a href="#">RT:85612</a>
<b>IPP</b>	S2	mvanross	None		Nothing	Nothing	<a href="#">RT:85613</a>
<b>INF2D</b>	S2	salbrec2	Haskell (latest)		Already installed	Nothing	<a href="#">RT:85615</a>
<b>DME</b>	S2	aonken	Matlab, latest version you can install. Python 2.7 with recent-ish <a href="#">NumPy</a> , <a href="#">SciPy</a> and Matplotlib. Ideally: Python 3.5 with <a href="#">NumPy</a> >= 1.10, + scipy and matplotlib., octave, pandoc, also PS <a href="#">NumPy</a> (and Octave) should be linked to a fast BLAS implementation		Same as MLPR	Checks required	<a href="#">RT:85616</a>
<b>INF1-OP</b>	S2	vseeker	Eclipse Latest (4.5?) - Java/javac (Java8) - JUnit (JUnit4)		Eclipse 4.7 available	Nothing	<a href="#">RT:85617</a>
<b>INF1-CG</b>	S2	clucas2	Nothing extra		Extra 3G for module duration	Additional module-inf1-cg entry required in quotas map	<a href="#">RT:85625</a>
<b>PMR</b>	S2	mgutmann	Matlab, latest version you can install. Python 2.7 with recent-ish <a href="#">NumPy</a> , <a href="#">SciPy</a> and Matplotlib. Ideally: Python 3.5 with <a href="#">NumPy</a> >= 1.10, + scipy and matplotlib., octave, pandoc, also PS <a href="#">NumPy</a> (and Octave) should be linked to a fast BLAS implementation		Checks needed	py2.7 stack only (rest via pip3); fast BLAS under test	<a href="#">RT:85652</a>

-- [RichardBell](#) - 07 Oct 2016

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