

'HSDUWPHQW RI )UHQFK 6WXGLHV  
 )UHQFK \$ ± - OD UHFFSKRULFKHREJ 6HHNLQJ LQ )UH  
 &RXUVH RXWOLQH IRU )DOO

\$OWKRJK WKLW DFDGHP IGLNHDUHQW JK WLVWHLUQF RQ PY MWWHG  
 WKULYLQJ F:DPISQFRXUDJH \RX WRJEK/HDFN 6RXWG WZHEM SMHLHQ  
 WR PDQDJH \RXU DFDGHP LFV DQG ZHORZEJLQQLQNG SLURYL  
 DYDLODEOH UH\$RXUWFNW XGRHXSV RQVDOGSVRIIZEPXSXV FD KHD

7HFKQLFDO 5HTXLUHPPHQWV

6WDEOH LQWHUQHW FRQQHFWDLRSWRS RU FRPSXWHU

:RUNLQJ PLFURSKRQH :RUNLQJ ZHEFDP

&RXUVH 2YHUYLHZ DQG ,PSRUWDQW 'DWHV

'HOLYHGH	'DWHV	7LPH
2QOLQH	YXHVGD	SP <sub>2</sub> SP
'HWDLOV DERXW LS@P B#00 ([DP 3HULRG		

6HSWHPEHU	1RYHPEHUEHU	'HFRPEHU	'HFHPEHU
1RYHPEHU	/DWRB GDILWRWGW HULP DK DIOU VFRXUWHHP ZXVQFRXW SHQD		

&RQWDFW ,QIRUPDWLRQ

&RXUVH &RRUGLQDWRU	RQWDFW ,QIRUPDWLRQ
'U /DWp /DZVRQ +HOOX	2:/ PHVJHWR /DZVRQO DZVQK

&RXUVH 'HVFULSWLRQ DQG 'HVLJQ

Préalable

)UHQFK RX )UHQFK ( )UHQFK  
EDVpH VXU OH 7HVW GH 3ODFHPHQW

Description

/H FRXUV )UHQFK \$FRXWVXQ GH pGLXL GH XFRXUHT XWLOLVp  
O↑REWHQ &MURQLG KDW GH IUDDHDLVSGHFDGIDLUED oDLV GHV DII

/H FRXUV YLVH j GpYHORSSHU OD FRPRXQ pFDWWRQG BDDOHHH  
VSpFLILTXHKGHU FKHU GH FXQ HPSORL

/D JUDPPDLUH HW O↑MIS UHNSULPQH QFWHGWO pPY B B XOWLRG GHV W  
WHVWV SRXU FH FRXUV

Matériel

7RXW OH PDWpUHH BQH OWJGHVSRQ OEDVLWH G X FRULHQ j DFKHW

ORGH	'DWHV	7LPH	)UHTXHQFV
9LUWXDO V\QFK	URQRXV	7XHVGD\V	SP
9LUWXDO DV\QF	KURQRXV	1 \$	

SP  
ZHI

- \$V\QFKURQRXV SUH ZRONWPKV \$ULH BVPB WL BQURQRXV VH
- \$WWHQGDQFH DWHVQERQRQRXVHTXLUHG
- 0LVVHG ZRUN VKRXOG EH FRRSOHHWHG ZLWKLQ
- \$UHFRUGL SUZYOGHEKURRQ RVQF VHVVLRQV
- &ORVHG FDSWLRQLQR QLDXGERRSURYR BGGJV

\$OO FRXUVH PDWHULDO ZLWOSEHRSZS WHEKDR JH:V ZLOO EH LQGL  
2:/ VLWH DQG GLVFXVHG ZLWK WKH FODVV

,I VWXGHQWV QHHG DVVLVWDQFH W:KHHEBQS VSHNHV XSSRLYM OR  
FDQ FRQWDFW H7HFKQRORJ\ 6HTKLF FDQ E BFRQWDFWHG E\ S  
RU H[W

\*RRJOH & KURPHOOD DUHHWKH SUHIHUHG EURZVHUV DWRXBSWLF  
EURZVHUV IUHTXHQW GAVVHG G BQHVD BDDH QJVS KHKH BQHHDVH F

/H DUQLQJ 2XWFRPHV

/HV REMHFWLIV SULQFLSDX[ GX FRXUV VRQW OHV VXLYDQWV  
LGHQWLILHU OHV FELLOW WPHG GPHPSORREBQQH  
LGHQWLILHU OHSVRGHEVXIRQOH OPD GFKS ORH O↑HP  
LGHQWLILHU OHV HPOWK FBXV TXLF KIHUVFWRP SLQH B B B RLQH  
G↑HPSORL  
UpGLJHU XQH OHWWRHQ BDLQDFDGMHDWH D BSRQFH j XQ  
pFULUH XQ & 9 HQ BRQ \$HFQVHQ SUGFDX HR UPHDQW WYBX VWV  
VH SUPSXOHHQ WUHWLHQ G↑KPEDXFKHQWLDH VGH Q↑G↑HPEDXF



(YDOXDWLRQ

%HORZ LV WKH HYDOXDWLRQ FURXUVGRZQ OGHYLFWRQQLFDWH

\$VVHVPHQW	)RUPDW	JKWLQ	'MH 'DWH
4XL] PLQ	YQDFD	VV	6HSWHPEHU
4XL] PLQ	,Q FODVV	YLD 2:/	<sup>WK</sup> 2FWREHU
7HVW PLQ	,Q FODVV	YLD 2:/	<sup>WK</sup> 2FWREHU
'HYRLU j UH	PHWWUH	\$VVLJQPH	QW <sup>WK</sup> To be submitted in Word format through OWL via email to the Instructor (.../Messages/Compose Message/To: Lawson-Hellu (llawsonh)
4XL] PLQ	,Q FODVV	YLD 2:/	<sup>WK</sup> 1RYHPEHU



\RX VXFFHHG LQ WKLV FODVV  
)ROORZ ZHHNO\ FKHFNOLVWV FUHDWRHGHOS 2R\XRUVWFDU HQWV  
7DNH QRWHV DV \RX OR WWROR RDM MBE O V A UHMD VR XV Z BX OG  
WR IDFH FRXUVH .HHS LQJ KDQGZULW W X Q D Q R : V R H V R G R F X Y H  
ZLOO KHOS \RX OHYDLOQ WR IDQ IMIXY FMMWHD Q/KQJ YLIG Z B W F K  
&RQQHFW ZLWK RLVKJHDQ R7QJ LQ H V WUX G R H J U R X S J D R Q G D W Z H  
EDVLV IRU VWXG\ DQG SHHU VXSSRUW  
'R QRW EH DIUDLG WR DVN TXHVWK RQ WR S L V R X F R H F N V W K H  
GLVFXVVLRQ ERDUGV LQV W R O V O R P U V R K M V L K / L Q D Q W V  
5HZDUG \RXUVHOI IRU VXFFHVHV X W W H O P V I N D R I Z H Q J W R K  
LV VRPHWKLQJ ZDLWLQJ IRU XV DW WKH HQG RI WKH WDVV

:HVWHUQ \$FDGHPLF 3ROLFLHV DQG 6WDWHPHQWV

\$EVHQFH IURP &RXUVH &RPPLWPHQWV

3ROLF\ RQ \$FDGHPLF &RQVLGHUDWLRQ IRU 6WXGHQW \$EVHQFHV

,Q WKH LQWHUHVW RI WKH KHDOWK DDUGH VSU R W L G R U W W X B X I D W M D Q G O F  
WR VHHN D PHGLFDHQ R W K L V R W H U P V H Q W R X F H H W X I D F R Q U V H U H T X L U H  
LOOQHVV \RX V K R Q Q G L X V H H E R T H K L V Q W R R Q W D N H V W K H S O D F H R I W K  
PHGLFDO QRWH D Q G H G \$ E V H Q F H S H S R W H P E R X R Q G H O J M D B G D W H V W X G H

<RX DUH UHTXLUHG WR VHOI UHSRUXQ D E Y O H U W G R D F R P I S D W H W R X F R X H V L I D G  
OG V X E P L W H P L L W W H G Z R W N N F A K C H E R U  
ERYH R W S O I Q W L W W K R X K O G L F R R X V O L X  
WKLV WRRO ZLWK LQWHJULW\

\$FFRPPRGDW R Q L I R X V + R O L G D \ V

7KH SROLF\ RQ \$FFRPPRGDW R Q L I R X V + R O L G D \ V E H Y L H Z H

6SHFLDO ([DPLQDWLRQV

\$ 6SHFLDO ([DPLQDWLRQ LV DQ\ H[DPLQDWLRQ R W R K H U D Q G D I Q W W R K H E  
RQO\ ZLWK WKH SHUPLVVLRQ RI WKHH' H V D Q G H Q W K H V D U F X Q L W W H O H Z G L E  
ZLWK WKH LQVWUXFWRU DQG 'HSDUWPHQW 'EHQ\$'qws' @ QI} WL `p 0 R R I

&RUUHVSRRQGHQFH 6WDWHPHQW

7KH FHQWUDOO\HDSDLOLDVFBURQGHG WR VWXGHQWV ZLOO EH FRQV  
RIILFLDO XQLYHUVLW\ H PDLO DGGWKVHVD,WRXQW KKR QJHS RVQV LHQOX  
UHFHLYHG IURP WKH KBUYRIUVEVDODMOKY HV DLWWHDCGHG WR LQ D WLP  
FDQ UHVG DERXW WKHUSULYBIFWBCG:2WVFDLID DFFRXQ

7XUQLWLQ DQG RWKHU VLPLODULW\ UHYLHZ VRIWZDUH

\$OO DVVLJQPHQWZHLW WR VXEPLDULLWQ IURHYWHZ WWD W/KH FLCP PHUF  
GHWHFWRQ VRIWZDUH XQGHU OLFHQWLRQ R IWSKHDSQDUHV L W RGHV  
WR YLHZ WKHLU UHVXOWV EHIRUH WKHP UWDHOG VRIWZDUH WZLWHE \$OLOQSD  
DV VRXUFH GRFXPHQWV LQ WKH UHIHUHQFHGHFWDEQVSDRUDWKMP  
VXEVTXHQWO\ VXEPLWWHG WR WKH VWHWHP WSRVWRH WKFHQVUQLF  
FXUUHQWO\ EWWZHQQLYVUVQWWDQGRP

\$UWV DQG +XPDQLWLHV )UHFK 6WX6WHDW\$PBGMP/LF 3ROLFL

+DUGZDUH VRWZDUHW FRQQHFWRQ

-XVW DV \RX ZRXOG SUHSDUHQ\RXUFDPS\$DUERXUWFKUSBRPSXWHU L  
UHVSRRVLELOLWUHVRGROVFKDUWH WHFRQDQDOIBHTWKUV FRXUVH  
‡ BRPSXWHUHTXLYDQHQVDSBEORH RI

W\SDHQFK DFFHQWV GLUHFWO\ LQ 2DQZLDVFRXQW FPLS\WSDNH  
DOZD\V  
ZHEURZVLQJ  
DXGURFRUGLQJ

‡D SHUVRQDO EDFN XS

\$ TXLHW VHWLQJ

6RPH RQOLQH WHVWV DUH PHWHUHG DQG XFDQ WRXUHQFH DWRHURJXS W H  
7XUQ SRUQH DM ZHOO DV DOO PHVVDJLQJ RU HPDLRQXZRUW ZDURLWHK  
SRS ZSQGRZV

7R DYRLG SRVVLEOH VRIWZDUH JOLWFKHLW EMIRGHEW DEDGM WRXWH  
FRPSXWEG ODXQFK RQO\ RQH EURZVHU DSSSLFDWLRQGHZHWKHRO\ F  
SURJUDPV ULXQWLUJ EDFNJURXQG

\$W WKH HQG PDNH QURXEXDQDZHUV EMIRBU JRDGLXP

6XEPLWWLQJ DQ Devoirs de Préparation et Travail final

,QVWUXFWLRQV IRU DVVLJQPHQW LQ 2ZO



‡6WXGHQMVH[SHFWHG WR XVH WKH ³0HVVDJHJVZLWRK 0 K L Q ,QZOWIUXUFWR  
DOO QrupDO FRXUVH UHODWHG PDWWHUV

‡ 30HDDYRHXGLQJ WKH ,QVWUXFWRU¶V SHUVRQDOV³\$XZRWDLRDLQ WRRU  
RQOLQH FRXUVH

‡ 6WXGHQWV DNHHSGYFRSDOVRZULWWHQ FRUUVSRQGHQFHRZLWK WK  
RI WKH FRXUVH

&RS\ULJKW DQG \$XGLFR 0GGJ 6WDWHPHQW

&RXUVH PDWHULDO SURGXFHG E\ IDFQWHLWKLR/SPDLWKWHDGO DQG DQ