

\$??  
YOLDU  
MATHA  
??  
*see*  
*also*  
cyclic  
tense  
asym-  
met-  
ric  
nega-  
tion  
FIRST  
*pos.prs*  
*pos.yp*  
THIRD  
*dis-*  
*con-*  
*tin-*  
*uous*  
CYCLIC  
TENSE  
Temporal

ref-  
erence  
and  
ver-  
bal  
in-  
flec-  
tion  
in  
West-  
ern  
Dhuwal  
(djr)  
FUT-  
TURE  
nu  
FUT  
ACC  
PRESENT  
ma  
IPFV.I  
ACC  
SAME  
DAY  
PAST  
nal  
ACC  
PRE-  
TODAY  
PAST  
ma  
ACC  
*bäyṇu*  
*e.g.*  
*pos.fut*  
*e.g.*  
in-  
com-  
pat-  
i-  
ble  
ASYM-  
ME-  
TRY  
Negation

in-  
ter-  
act-  
ing  
with  
tem-  
po-  
ral  
ref-  
erence  
in  
West-  
ern  
Dhuwal  
(djr)  
FUT-  
TURE  
nu  
NEG  
PRESENT  
nu  
NEG  
SAME-  
DAY  
PAST  
nba  
NEG  
ACC  
PRE-  
TODAY  
PAST  
nu  
NEG  
ACC  
??  
*viz.*  
CYCLIC  
AND  
MET-  
RI-  
CAL  
TENSE  
NEG-  
A-  
TIVE  
ASYM-

$\mathcal{C}$

??  
e.g.  
 $\mathcal{L}_1$   
 $\mathcal{L}_2$





$$\begin{array}{l}
3 \\
[w,t]_{\text{FUT}} p = \\
\{1 \leftrightarrow \forall w' [w' \approx_t w \rightarrow \exists t' [t \prec t' \wedge p(w')(t')]] 0 \leftrightarrow \forall w' [w' \approx_t w \rightarrow t' [t \prec t' \wedge p(w')(t')]] \text{undefined otherwise} \\
\text{FUT} \\
p \\
t' \\
t_w \\
t \\
p
\end{array}$$

$$\begin{array}{l}
\cap \approx_t \\
w \\
w \\
t \\
w \\
t \\
\text{meta-} \\
\text{phys-} \\
i- \\
\text{cal} \\
\text{con-} \\
\text{sa-} \\
\text{tional} \\
\text{back-} \\
\text{ground} \\
§??
\end{array}$$

$$\begin{array}{l}
?? \\
\text{bam-} \\
\text{bai} \\
\text{REAL} \\
\text{NON-} \\
\text{REAL} \\
\cap \approx_i \\
i \\
i
\end{array}$$



PAST  
PRESENT  
FUTURE  
PAST  
POTENTIAL  
??







7  
??

note:  
An-  
drea  
Simms  
strongly  
sug-  
gests  
more  
ex-  
po-  
si-  
tion  
of  
the  
for-  
mal  
paradigm

*Gy-  
papuyŋu*

**Class Example**

Ø <sub>a</sub>	Ø <sub>i</sub> marrtji	marrtji	marrtji	marrtjin(a)	marrtjinya
	luka	luka	luki	n(a)	nha
Ø <sub>rr</sub>	wandirr(i)	wandirr(i)	wandi	wandin(a)	wandinya
N	lupthun	luphtun	lupthurr(u)	lupthurr(una)	lupthuna
N <sub>L</sub>	gurrupan	gurrupan	l(u)	ra	na
Ø	nhäma	nhäma	nhäŋu	nhäŋal(a)	nhänha

??



*e.g.*<sup>10</sup>

*Imperative*  
*force*  
*with*  
*II*



13  
*a*  
*prior*  
*dry*  
*sed-*  
*son*  
RE-  
NOTE  
PAST  
*sc.*

cyclic  
time  
ref-  
erence  
??









*cf.*  
§??  
DIS-  
CON-  
TIN-  
U-  
OUS.  
??

17  
*ga*  
PRESENT  
PER-  
FEC-  
TIVE  
*ff*  
LEX-  
|  
CAL  
CON-  
STRAINT  
*Ak-*  
*tion-*  
*sart*







*e.g.*  
*ñāma*  
*dharaṇa*  
*guyana*  
*events*  
*ñāma*  
 ACHIEVE-  
 MENT  
 HAP-  
 PEN-  
 ING



cates.<sup>20</sup>

So

far

in

this

sec-

tion,

we

have

seen

ev-

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of

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W.

Dhuwal(a)

where

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ing)

pred-

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lex-

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even-

tive

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namic)

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tions

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are

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bound

(*i.e.*,

have

end-

points).

This

prin-

ci-

ple

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mu-

lated

in

().

**verbal**

**stems**

**as**

**in-**

**her-**

**ently**

**even-**

**tive**

**in**

re-  
fer-  
ring  
to  
a  
presently-  
holding  
state.

‘caus’<sup>21</sup>

—  
de-  
rives  
in-  
flect-  
ing  
ver-  
bal  
pred-  
i-  
cates  
with  
ac-  
cord-  
ingly  
even-  
tive  
se-  
man-

tics.<sup>22</sup>  
Wilkin-  
son1991  
demon-  
strates  
the  
paradig-  
matic  
re-  
la-  
tion  
be-  
tween  
these  
pred-  
i-  
cates.  
A  
num-  
ber  
of  
ex-  
am-  
ples  
of  
these  
ver-  
bal  
deriva-  
tions  
are  
given  
in  
Ta-  
ble  
**??**  
be-  
low  
(pre-  
dom-  
i-  
nantly  
from  
Wilkin-  
son's  
de-  
scrip-  
tion)  
and  
for-  
mal  
pro-  
pos-  
als  
for  
the  
con-  
tri-  
bu-  
tions  
of  
a  
num-  
ber  
of  
these  
op-  
er-  
a-  
tors  
are  
given  
in  
(  
be-

low.<sup>23</sup>

ii.

-

TH*i*

$$\langle\langle\varepsilon_s, t\rangle, \langle\varepsilon_\varepsilon, t\rangle\rangle =$$

$$\lambda P^s. \lambda e [\text{BECOME}(P^s)(e)]$$

-

TH*i*

‘inch’

is

a

sit-

u-

a-

tion

op-

er-

a-

tor

which

takes

a

prop-

erty

of

states

 $P^s \subseteq$  $\mathcal{E}$ 

and

re-

turns

the

set

of

events

BE-

COME

 $P^s \subseteq$  $\mathcal{E}_\epsilon$ .

A

se-

man-

tics

for

-

*ku*~TH*a*

‘tran-

si-

tiviser’

-

$$\text{TH}u \langle\langle\varepsilon_s, t\rangle, \langle e, \langle\varepsilon_e, t\rangle\rangle\rangle =$$

$$\lambda y \lambda P^s. \exists e [\text{CAUSE}(y, \text{BECOME}(P^s)(e))]$$

-

TH*u*

‘tr’

is

a

sit-

u-

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tion

op-

er-

a-

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which

takes

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prop-

erty

of

states

 $P^s$ 

and

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turns

eat.I  
prox.erg  
mvtawy  
morn-  
ing//  
'I  
ate  
some  
crab  
last  
night  
and  
this  
morn-  
ing  
brought  
some  
back  
for  
Dad  
so  
that  
he  
can  
eat  
(some).'[DB 20190416]//

Ultimately,  
we  
can  
think  
of  
the  
tem-  
po-  
ral  
in-  
ter-  
val  
(*i.e.*,  
range  
of  
pos-  
si-  
ble





[49]Cover2010).<sup>25</sup>

A

con-  
se-  
quence  
of  
an  
anal-  
y-  
sis  
of  
this  
type  
would  
be  
that,  
past-  
referring  
ut-  
ter-  
ances  
with  
I-  
morphology  
must  
be  
un-  
der-  
stood  
“not  
[as  
lo-  
cat-  
ing]  
a  
sit-  
u-  
a-  
tion  
at  
some  
def-  
i-  
nite  
point  
in  
the  
past,  
but  
only  
to  
of-  
fer  
it  
as  
rel-  
e-  
vant  
to  
the  
cur-  
rent  
sit-  
u-  
a-  
tion”,  
a  
se-  
man-  
tic  
do-  
main  
tra-  
di-  
tion-  
ally  
as-

re-  
la-  
tion  
be-  
tween  
a  
contextually-  
provided  
ref-  
er-  
ence  
time  
and  
the  
time  
of  
speech),  
we  
are  
left  
with  
dis-  
junc-  
tive  
lex-  
i-  
cal  
en-  
tries  
for  
each  
of  
I  
and  
III,  
sug-  
gested  
be-  
low  
in  
().

poly-  
tnsA  
**pol-**  
**y-**  
**semy**  
**treat-**  
**ment**  
**of**  
**the**  
**tem-**  
**po-**  
**ral**  
**con-**  
**tri-**  
**bu-**  
**tion**  
**of**  
**I**  
**and**  
**III**  
**(to**  
**be**  
**re-**  
**jected)**disjunct

$\mathbf{I}^c =$   
 $\lambda P. \exists t' \{ t \in$   
 $today' \leftrightarrow$   
 $t \succeq$   
 $t^*$   
 $. P(t') \quad [\text{NONPAST}]$   
 $t \prec$   
 $today' \leftrightarrow$   
 $\mu(t, t^*) <$   
 $s_c. P(t') \quad [\text{RECENT PAST}]$   
 $\mathbf{I}$

as-

gram-  
mat-  
i-  
calised  
in  
WD.

The  
trans-  
la-  
tion  
of  
the  
Glaswe-  
gian  
se-  
man-  
tics  
for  
tense  
sys-  
tems  
of  
this  
type  
given  
in  
(poly-  
tns),  
then,  
ap-  
pears  
to  
be  
de-  
scrip-  
tively  
sound.  
It  
is,  
how-  
ever,  
un-  
der-  
mo-  
ti-  
vated  
and  
in-  
ad-  
e-  
quate  
in-  
so-  
far  
as  
it  
makes



([*e.g.*,] [Cable2013,Klecha2016,Hayashi2015.])<sup>28</sup>

That  
is,  
gram-  
mars  
that  
pay  
at-  
ten-  
tion  
to  
tem-  
po-  
ral  
dis-  
tinc-  
tions  
that  
are  
*more*  
*fine-*  
*grained*.

As

an  
ex-  
am-  
ple,  
Gikūyū  
([kik]  
Bantu:  
Cen-  
tral  
Kenya)  
is  
de-  
scribed  
as  
hav-  
ing  
a  
sys-  
tem  
of  
‘tem-  
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ral  
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mote-  
ness  
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phemes’  
(trms):  
four  
for  
the  
past  
and  
two  
for  
the  
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ture.  
For  
Ca-  
ble2013,  
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trm  
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taken  
to  
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the  
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ence,  
in-  
dex-  
ing  
“re-  
stric-  
tions  
of  
hu-  
man  
mem-  
ory,  
lifes-  
pan,  
or  
cul-  
tural  
el-  
e-  
ments  
such  
as  
myths”  
[544]Botne2012.  
While

this  
ex-  
pla-  
na-  
tion  
is  
com-  
pat-  
i-  
ble  
with  
III’s  
re-  
mote  
past  
func-  
tions,  
as  
de-  
scribed,  
this  
in-  
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with  
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(in-  
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ing  
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me-  
di-  
ate)  
past  
ref-  
er-  
ence.

ver-  
bal  
pred-  
i-  
cates  
(stems)  
as  
prop-  
er-  
ties  
of  
events

—  
that  
is,  
they'll  
be  
taken  
to  
de-  
note  
ex-  
pres-  
sions  
of  
type  
 $\langle \varepsilon, \langle s, t \rangle \rangle$ .

These  
are  
then  
taken  
to  
be  
the  
in-  
put  
of  
as-  
pec-  
tual  
op-  
er-  
a-  
tors,  
which  
ex-  
is-  
ten-  
tially  
bind  
the  
event  
vari-  
able,  
out-  
putting  
a  
propo-  
si-  
tion  
(a  
char-  
ac-  
ter-  
is-  
tic  
func-  
tion  
of  
in-  
dices.)  
De-  
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tions  
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A

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der-  
spec-  
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fied  
lex-  
i-  
cal  
en-  
try  
for  
I  
is  
given  
in  
( )  
be-  
low.  
Here,  
I  
is  
taken  
sim-  
ply  
to  
re-  
alise  
an  
IN-  
STAN-  
TI-  
A-  
TION  
re-  
la-  
tion  
be-  
tween  
its  
pre-  
ja-  
cent

—  
a  
set  
of  
in-  
dices  
re-  
lated  
to  
the  
event's  
run-  
time

—  
and  
a  
con-



tor.)<sup>32</sup>

NONFINAL

IN-  
STAN-  
TI-  
A-  
TION  
is  
a  
sub-  
case  
of  
the  
PROP-  
ERTY  
IN-  
STAN-  
TI-  
A-  
TION  
re-  
la-  
tion  
which  
holds  
only  
if  
the  
*P*-  
event  
**does**  
**not**  
**over-**  
**lap**  
with  
the  
end  
of  
the  
ref-  
er-  
ence  
in-  
ter-  
val  
*i*.  
This  
re-  
la-  
tion  
is  
de-  
fined  
in  
(nfi.def)  
and  
schema-  
tised  
in  
fig-  
ure  
??.

time.<sup>33</sup>

From

this,

we

can

sim-

ply

de-

rive

the

in-

com-

pat-

i-

bil-

ity

of

III

with

PRESENT-

referring

event

de-

scrip-

tions:

all

non-

final

subin-

ter-

vals

of

(*today*, *i\**]

forcibly

ex-

clude

*i\**.I

can

prove

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as

a

the-

o-

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of

$\mathcal{L}$

if

nec-

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sary

but

it's

pretty

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tu-

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right?

As

a

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sult,

NFINST( $P$ , [*today*, *i\**), *j*)

yields

the

TO-

DAY

PAST

dis-

tri-

bu-

tion

for

III.

The

NON-

TO-

$$\begin{aligned} & \forall k[k i_c \wedge \\ & k \prec \\ & j \rightarrow \\ & \text{INST}(P, \{i_c - \\ & k\})] \\ & \exists j[j^{\text{FIN}} \sqsubseteq i \wedge \\ & \text{INST}(P, j)] \\ & \text{I} \end{aligned}$$

re-  
alises  
prop-  
erty  
in-  
stan-  
ti-  
a-  
tion  
but,  
via  
com-  
pe-  
ti-  
tion  
with  
the  
more  
spe-  
cific  
form-  
III-  
its  
use  
is  
con-  
ven-  
tion-  
ally  
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stricted  
to  
the  
rel-  
a-  
tive  
com-  
ple-  
ment  
of  
III's  
do-  
main  
(*i*).  
That  
is,  
the  
rel-  
a-  
tive  
com-  
ple-  
ment  
of  
NON-  
FI-  
NAL  
IN-  
STAN-  
TI-  
A-  
TION  
(*ii*).  
There-  
fore  
I  
is  
fe-  
lic

Meanwhile,

as  
demon-  
strated  
above,

II  
and  
IV  
both  
ap-  
pear  
to  
co-  
occur  
with  
modal  
par-  
ti-  
cles.

Pred-  
i-  
ca-  
tions  
about  
the  
fu-  
ture  
(be-  
yond  
the  
day  
of  
ut-  
ter-  
ance  
*today*)

obli-  
ga-  
to-  
rily  
oc-  
cur  
with  
*dhu*  
'fut'  
and  
re-  
ceive

II  
in-  
flec-  
tion.

As  
shown  
in  
§??,  
how-  
ever,  
*dhu*+II

can  
also  
re-  
ceive  
a  
range  
of  
modal  
ne-  
ces-  
sity  
read-  
ings;  
sug-  
gest-  
ing  
a  
treat-

(neg-  
pres)  
show  
how  
sen-  
tences  
that  
re-  
ceive  
I-  
marking  
in  
pos-  
i-  
tive  
sen-  
tences  
—

en-  
cod-  
ing  
tem-  
po-  
ral  
ref-  
er-  
ence  
to  
the  
present  
or  
re-  
cent  
past  
—

in-  
stead  
re-  
ceive  
II-  
marking  
un-  
der  
the  
scope  
of  
nega-  
tion.  
Each  
ex-  
am-  
ple  
con-  
tains  
a  
pred-  
i-  
ca-  
tions  
about  
the  
present  
or  
about  
the  
re-  
cent  
past,  
each  
re-  
ceiv-  
ing  
II-  
marking  
un-  
der  
nega-

to  
lex-  
i-  
calise  
strictly  
**root**  
(non-  
epistemic)  
modal-  
i-  
ties  
[con-  
tra]]<sup>[123]</sup>VanderWal1992.  
This

sec-  
tion  
be-  
gins  
with  
a  
brief  
re-  
view  
of  
the  
“branch-  
ing  
time  
frame-  
work”  
be-  
fore  
pro-  
vid-  
ing  
an  
overview  
of  
the  
se-  
man-  
tics  
of  
WD  
modal  
par-  
ti-  
cles  
and  
form-  
ing  
a  
set  
of  
gen-  
er-  
al-  
i-  
sa-  
tions  
over  
the  
dis-  
tri-  
bu-  
tion  
of  
in-  
flec-  
tions  
II  
and  
IV  
in  
WD.

The  
branch-

‘Aunty  
will  
be  
sit-  
ting  
on  
the  
beach  
to-  
mor-  
row.’[AW 20190409]//limurru  
**dhu**  
luk-  
**a**  
may-  
pal  
yalala  
milmitjpa//  
1d.EXCL  
FUT  
consume-  
I  
shell-  
fish  
later  
evening//  
‘We’re  
hav-  
ing  
shell-  
fish  
this  
evening.’[DG 20190417]//  
**dhu**  
**‘fut’**  
**and**  
**other**  
**flavours**  
**of**  
**modal**  
**ne-**  
**ces-**  
**sity**dhu-  
nec  
Way!  
Nhe  
**dhu**  
gurruk-  
**ama**  
djongu’!//  
Hey!  
2s  
fut  
carry-  
I  
hat//  
‘Hey!  
You  
must  
wear  
a  
hel-  
met!’[DG 20190405]//dja-  
mar-  
rkuli  
**dhu**  
yaka  
wur-  
ranat-  
jarra’y-  
**irr**//  
chil-  
dren  
fut  
neg  
cruel.inch-  
I//

**IV-**  
**inflection**balan-  
iv           nhe  
**bal-**  
**aju**  
malkthu-  
**nha**//  
2s  
**irr**  
accompany-  
IV//  
'you  
should/would  
have  
gone  
with  
(him).'[DG 20190413]//  
          narra  
gana  
guyana-  
na  
watuy  
**bal-**  
**aju**  
luka-  
**nha**  
choco-  
late//  
1s  
ipfv.III  
think-  
III  
dog.erg  
**irr**  
eat-  
IV  
choco-  
late//  
'I'd  
thought  
the  
dog  
might/would  
eat  
the  
choco-  
late.'[DG 20190413]//  
          narra-  
nha  
**bal-**  
**aju**  
luku  
walala  
mitthu-  
**na...**  
yurru  
narra  
manymak-  
thirri//  
1s-  
acc  
**irr**  
foot  
3p  
cut-  
IV  
but  
1s  
good-  
inch.I//  
'They  
would  
have  
am-  
pu-  
tated



Conversely,

the  
con-  
cept  
of  
RE-  
AL-  
ITY  
STA-  
TUS  
and  
the  
*re-  
alis/irrealis*  
dis-  
tinc-  
tion  
has  
also  
been  
roundly  
crit-  
i-  
cised  
by  
a  
num-  
ber  
of  
au-  
thors,  
pre-  
dom-  
i-  
nantly  
due  
the  
fact  
that  
few  
lan-  
guages  
ap-  
pear  
to  
gram-  
mat-  
i-  
calise  
the  
*re-  
alis/irrealis*  
con-  
trast  
as  
a  
“bi-  
nary  
mor-  
pho-  
log-  
i-  
cal  
dis-  
tinc-  
tion”  
as  
well  
as  
the  
ap-  
par-  
ent  
het-  
ero-  
gene-  
ity

Palmer2001.<sup>42</sup>

[§  
2.2]Port-  
ner2018a  
iden-  
ti-  
fies  
two  
broad  
sets  
of  
in-  
tu-  
itions  
about  
the  
se-  
man-  
tics  
of  
ver-  
bal  
mood  
(pre-  
dom-  
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nantly  
on  
the  
ba-  
sis  
of  
the  
INDICATIVE-  
SUBJUNCTIVE  
con-  
trast  
in  
a  
num-  
ber  
of  
Eu-  
ro-  
pean  
lan-  
guages)  
which  
have  
driven  
an-  
a-  
lytic  
work:  
anal-  
y-  
ses  
that  
hinge  
on  
the  
se-  
man-  
tics  
of  
**com-  
par-  
i-  
son**  
ver-  
sus  
**truth**  
**in**  
**a**  
**des-  
ig-  
nated**





main.<sup>43</sup>  
On  
the  
ba-  
sis  
of  
this  
gen-  
er-  
al-  
i-  
sa-  
tion,  
Gian2016  
(2016),  
Gi-  
an-  
naki-  
dou2020)  
a.o.  
take  
the  
sub-  
junc-  
tive  
to  
in-  
di-  
cate  
“non-  
veridi-  
cal-  
ity”  
with  
re-  
spect  
to  
a  
propo-  
si-  
tion  
—  
that  
is,  
it  
in-  
di-  
cates  
that  
there  
ex-  
ists  
at  
least  
one  
world  
in  
a  
given  
set  
of  
worlds  
in  
which  
that  
propo-  
si-  
tion  
is  
not  
true  
(schema-  
tised  
in  
.)

clause<sup>44</sup>

## Subjunctivity

The  
dis-  
cus-  
sion  
above  
draws  
on  
the  
lit-  
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a-  
ture  
on  
VER-  
BAL  
MOOD,  
an  
en-  
ter-  
prise  
which  
at-  
tempts  
to  
cap-  
ture  
in-  
tu-  
itions  
about  
the  
mean-  
ing  
con-  
trasts  
be-  
tween  
the  
IN-  
DICA-  
TIVE  
and  
SUB-  
JUNC-  
TIVE  
cat-  
e-  
gories  
of  
(al-  
most  
ex-  
clu-  
sively)<sup>45</sup>  
Eu-  
ro-  
pean  
lan-  
guages.  
In  
his  
com-  
par-  
i-  
son  
of  
IR-  
RE-  
ALIS  
and  
SUB-

ter.<sup>46</sup>

This  
ap-  
proach  
ef-  
fec-  
tively  
for-  
malises  
(some)  
ideas  
about  
the  
il-  
lo-  
cu-  
tion-  
ary  
force  
and  
sets  
of  
norms  
that  
ap-  
ply  
to  
as-  
ser-  
toric  
speech  
acts

([e.g.] []Williamson1996,Brandom1983  
a.o.)

by  
pos-  
tu-  
lat-  
ing  
a  
covert  
dox-  
as-  
tic  
modal  
which  
is  
an-  
chored  
by  
the  
ac-  
tual  
world

*i*\*.

$\sim_{\alpha}$

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a  
dox-  
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tion  
an-  
chored  
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tions  
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sertable..

***Conditionals:***

***not***

***sure***

***where***

***these***

***are***

***from***

vi-

o-  
let[**sbjv**]wäniya

ɲay

ɲun-

bal-

aya

bulu,

ɲayi

**guyupiya**//

go.IV

3s

that way

again

3s

die.IV//

‘If

he

had

gone

that

way,

he

would’ve

died’//ochre[**cond**]wäni

ɲay

ɲun-

bal-

aya

bulu,

ɲayi

**guyupi**//

go.II

3s

that way

again

3s

die.II//

‘If

he

goes

that

way,

he’ll

die’//

The

pro-

posal

in

ac-

tion

maku

ɲarra

dhu

gi

nhäɲu

mukulnha//

epist

1s

fut

ipfv.

see.

aunt.acc//



sit-  
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at-  
ing  
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ence  
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dex  
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the  
COUN-  
TER-  
FAC-  
TUAL  
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of  
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anal-  
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sis  
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sises  
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tional

sim-  
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ties  
be-  
tween  
neg-  
a-  
tive  
op-  
er-  
a-  
tors

in  
WD  
and  
the  
modal

par-  
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cles

$dhu,$   
 $bal\eta(u)...$

in  
view

of  
as-  
sim-

i-  
lat-  
ing  
the  
for-  
mer  
into

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“modal

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tor”

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man-  
tics  
for  
and

. These  
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tions  
are  
gen-  
er-  
ally  
oblig-  
a-  
tory  
in  
ir-  
re-  
alis  
con-  
texts  
(as  
trig-  
gered  
by  
modal  
(incl.  
neg-  
a-  
tive)  
op-  
er-  
a-  
tors)  
in  
view  
of  
gen-  
eral  
prag-  
matic  
prin-  
ci-  
ples  
(*viz.*  
MAX-  
I-  
MIZE  
PRE-  
SUP-  
PO-  
SI-  
TION.<sup>50</sup>)  
The  
anal-  
y-  
sis  
of  
the  
same-  
day  
fu-  
ture,  
then,  
is  
based  
on  
the  
hy-  
poth-  
e-



WD.<sup>51</sup>  
Ad-  
di-  
tion-  
ally,  
Melanie  
Wilkin-  
son  
ob-  
serves  
that  
these  
ef-  
fects  
ap-  
pear  
to  
be  
vari-  
able  
in  
the  
Djam-  
bar-  
rpuyɲu  
va-  
ri-  
eties  
spo-  
ken  
fur-  
ther  
east  
in  
Gali-  
win'ku  
(El-  
cho  
Is-  
land)  
and  
aren't  
man-  
i-  
fested  
in  
*Mi-  
watj*  
va-  
ri-  
eties  
more  
gen-  
er-  
ally  
([431,  
359ff])Wilkinson1991;  
*pers.*  
*comm.*)  
These  
phe-  
nom-  
ena  
*are*,  
how-  
ever,  
ex-  
hib-  
ited  
in  
the  
west-  
ern-  
most  
Yolɲu  
va-  
ri-

nhä-  
**wala**  
ŋarra  
yothu'than'dja  
mukulnhaya//  
see-  
**pst**  
ls  
child-  
temp-  
prom  
aunt-  
acc-  
prom//  
'When  
I  
was  
young  
I  
saw/would  
see  
my  
aunt.'[AL 20190522]//  
Heath  
also  
in-  
di-  
cates  
that  
that  
Rithar-  
rju's  
FU-  
TURE  
(cog-  
nate  
with  
)  
and  
PAST  
PO-  
TEN-  
TIAL  
(no  
WD  
cog-  
nate:  
)<sup>52</sup>  
cat-  
e-  
gories  
ap-  
pear  
to  
be  
vari-  
able  
in  
terms  
of  
modal  
force.  
This  
is  
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cated  
by  
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ples  
in  
(Heath's  
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tions,

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tion  
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in  
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fact  
that  
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neu-  
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tion  
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mood  
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tions  
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negated  
clauses  
is  
a  
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that  
is  
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a  
num-  
ber  
of  
the  
non-  
Pama-  
Nyungan  
lan-  
guages  
of  
north-  
ern  
Aus-  
tralia  
(Arn-  
hem  
Land  
in  
par-  
tic-  
u-  
lar).<sup>53</sup>  
Sim-  
i-  
larly,  
with  
the  
ex-  
cep-  
tion  
of  
the  
Man-  
ingrida  
fam-  
ily  
(Bu-  
rarra,  
Gun-  
narpta  
Gurr-  
goni,  
Nakkara,



lier.<sup>54</sup>  
The  
ab-  
sence  
of  
these  
fea-  
tures  
in  
other  
Pama-  
Nyungan  
(ge-  
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lated)  
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gests  
that  
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paradgm  
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tion  
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west-  
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eties  
is  
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tion  
of  
this  
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ble  
con-  
tact  
with  
their  
Man-  
ingrida/Burarran  
neigh-



bours.<sup>55,56</sup>

A

po-  
ten-  
tial  
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poth-  
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sis  
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der-  
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ning  
this  
change  
is  
that,  
with  
the  
ad-  
vent  
of  
cyclic  
tem-  
po-  
ral  
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er-  
ence,  
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erst-  
while  
PRESENT  
tense  
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comes  
to  
fail  
to  
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li-  
ably  
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code  
a  
dis-  
tinc-  
tion  
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tween  
past  
and  
present  
tem-  
po-  
ral  
ref-  
er-  
ence.  
Con-  
se-  
quently,  
there  
is  
a  
greater  
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liance  
on  
other  
lex-  
i-  
cal  
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rial

a  
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al-  
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tions  
which  
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takes  
to  
be  
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lat-  
able”  
with  
mood  
promi-  
nence,  
in-  
clud-  
ing  
the  
gram-  
mat-  
i-  
cal-  
i-  
sa-  
tion  
of  
tem-  
po-  
ral  
re-  
mote-  
ness<sup>57</sup>  
and  
the  
de-  
vel-  
op-  
ment  
of  
a  
fu-  
ture/nonfuture  
tense  
dis-  
tinc-

tion:<sup>58</sup>  
fea-  
tures  
ex-  
hib-  
ited  
(to  
vary-  
ing  
de-  
grees)  
in  
WD.

