

((players): [.frags]]

• DEVELOPED BY ALISTAIR COCKBURN

M ClearRandom ():

1997: NAMED "CRYSTAL"

of (skill == sk, nightmare ill respenditure) = sky nightmare ill respenditure il respendi

SONE OF THE FOUNDING 'A

1992: STARTE 1,5 th Cloud the Spark 2

// S_PISTOLFLASH**case ga_new**game: SUN G_DoNewGame () case ga_loadgame G DoLoadGame G_DoPlayDemo ()

case ga screenshot M ScreenShot 0:

gameaction = ga_nothing; case ga_nothing break:

if (playeringame(il)

if (demoplayback)

if (demorecording)

G_WriteDemoTiccmd (cmd)

extern char *player_names[4]

sprintf (turbomessage, "96s is turbo!",pl playersIconsoleplayerI.message = turbo

if (netgame && !netdemo && !(gametic%ticdut

consistancylillbuff = players(il.mo->)

playerslil.playerstate = PST_REBORN:

// force players to be initialized upon first level load

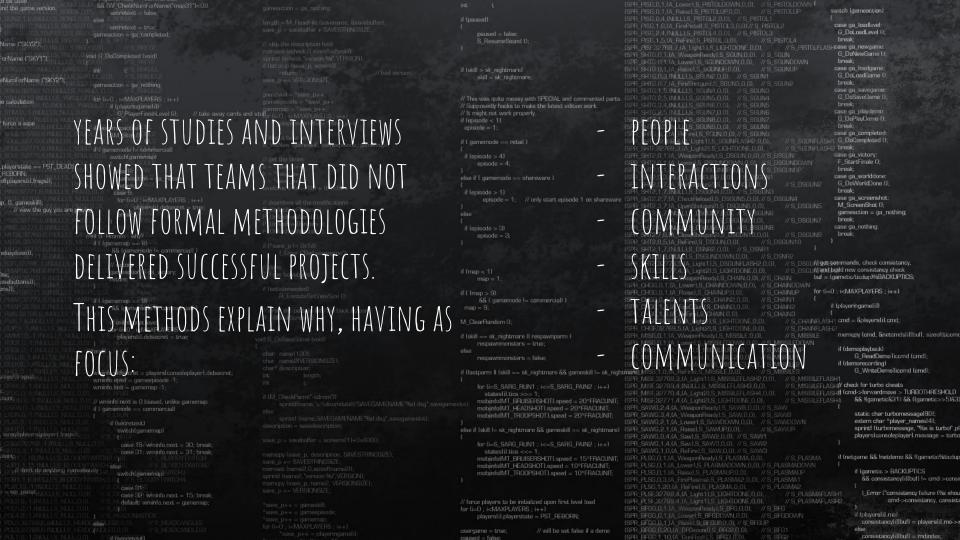
switch (gameaction) case da loadlevel G_DoLoadLevel ()

case da completed

G_DoWorldDone ()

G_ReadDemoTicomd (cmd);

if (gametic > BACKUPTICS && consistancylillbufl != cmd->consi



FAMILY OF METHODOLOGIES

Life (L)

Essential

Money (E)

Discretionary

Comfort (C)

Money (D)

Clear

L6

E6

D₆

C6

1-6

L20

E20

D20

C20

7-20

Orange

L40

E40

D40

C40

case ga_playdemo: G_DoPlayDemo (): case ga_completed

Maroon

Red

// S_PISTOLFLASH**case ga_new**game: SUN G_DoNewGame ()

switch (gameaction) case da loadlevel G_DoLoadLevel ()

G_DoLoadGame (

case ga_savegame G_DoSaveGame ()

CRYSTAL CLEAR CRYSTAL YELLOW

CRYSTAL ORANGE

CRYSTAL ORANGE WEB

// force players to be initialized upon first level load

41-80

81-200

21-40

ACKUPTICS

sistancy, check

KUPTICS:

ficernd (cmd)

> TURBOTHRESHOLD) && ((gametic>>5)&3

ssage, "%s is turbo!" pl

cylillbufl != cmd->consi

L Error ("consistency failure (%) shou

consistancylillbuff = players(il.mo->) consistancylillbufl = rndindex

```
switch (gameaction)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              case da loadlevel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               G DoLoadLevel ()
                                                                                                                                                                                                                                                                                                                                                                                              (SFR_PISE32768.7.(A_Light1).S_LIGHTDONE.0.0).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              case ga_lcadgame
                                                                                                                                                                                                                                                                                         if (skill > sk_nightmare)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               G DoLoadGame (
eNumForName ("SKY2")
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                G DoSaveGame (
                                                                                                                                                                                                                                                                                         // Supposedly hacks to make the latest edition work.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               case ga playdemo:
                                                                      G PlayerFmishLevel (i)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               G_DoPlayDemo ()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              case ga completed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              case ga_victory:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               F StartFinale ():
playerstate == PST_DEAD)
                                                                                                                                                      METHODOLOGY - SET OF ELEMENTS (E.G. PRACTICES, TOOLS)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              case ga_worlddone
 oftplayers(il.frags))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               G_DoWarldDone ()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              case ga screenshot
ip, O. gameskill)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               M ScreenShot 0:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                gameaction = ga_nothing;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               case ga_nothing:
                                                                                                                                                       TECHNIQUES - SKILL AREAS (E.G. DEVELOPING USE CASES) control of the control of th
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 buf = (gametic/ticdup)%BACKUPTICS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 for (i=0 : i<MAXPLAYERS : i++1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           if (playeringame(il)
                                                                    && (gameniode != commercial) )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               // S_CHAINFLASH1 cmd = &playersfil.cmd
                                                                                                                                                                                                                                                                                         M ClearRandom ():
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               memopy (cmd, &netomdslillbuff, sizeof(ticome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                if (demoplayback)
                                                                                                                                                      POLICIES - DICTATE ORGANIZATIONAL M
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          G_ReadDemoTicomd (cmd);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                if (demorecording)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          G_WriteDemoTiccmd (cmd):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               // S MISSILEFLASH# check for turbo cheats
                                                                                                                                                                                                                                                                                                                                                                                             (SPR_MISF, 32770, 4,1A_Light2),S_MISSILEFLASH4, 0,0); // S_MISSILEFLASH4 (cmd->forwardmove > TURBOTHRESHOLD
                                                                                                                                                                                                                                                                                                      stateslil.tics >>= 1:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          && !!gametic&31) && ((gametic>>5)&3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          static char turbomessage(80);
                                                                                                                                                                                                                                                                                                   mobjinfolMT_TROOPSHOTI.speed = 20°FRACUNIT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          extern char *player names[4]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          sprintf (turbomessage, "96s is turbo!",pl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          playersIconsoleplayerI.message = turbo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                if (netgame && !netdemo && !(gametic%ticdut
                                                                                                                                                                                                                                                                                                   mobinfolMT_BRUISERSHOTI.speed = 15*FRACUNIT;
                                                                                                                                                                                                                                                                                                   mobiinfofMT_HEADSHOTI.speed = 10°FRACUNIT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          if (gametic > BACKUPTICS
                                                                                                                                                                                                                                                                                                   mobjinfolMT_TROOPSHOT1.speed = 10°FRACUNIT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               && consistancylillbufl != cmd->consi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 Error ("consistency failure (%) shou
                                                                                                                                                                                                                                                                                         // force players to be initialized upon first level load
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               cmd->consistancy, consista
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               consistancylillbuff = players(il.mo->)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              consistancylillbufl = rndindex
```

eNumForName ("SKY2") G PlayerFmishLevel (i) FREQUENT DELIVERY REFLECTIVE IMPROVEMENT CLOSE OR OSMOTIC COMMUNICATION PERSONAL SAFETY

- EASY ACCESS TO EXPERT USERS

TECHNICAL ENVIRONMENT WITH AUTOMATED TESTS, CONFIGURATION MANAGEM EN TIPLE CONTROLL STATE OF THE CONTROLL OF THE CONTROLL OF THE CONTROL OF T

AND FREQUENT INTEGRATION

M ClearRandom ():

respawnmonsters = false

for (i=S_SARG_RUN1 : i<=S_SARG_PAIN2 : i++)

mobinfolMT_BRUISERSHOT1.speed = 15°FRACUNIT:

mobinfolMT_TROOPSHOTLspeed = 10°FRACUNIT:

(SPR_PISE32768.7.(A_Light1).S_LIGHTDONE.0.0).

G_WriteDemoTiccmd (cmd)

memopy (cmd, &netomdslillbuff, sizeof(ticome G_ReadDemoTicomd (cmd);

switch (gameaction) case ga_loadlevel G DoLoadLevel ()

G_DoPlayDemo () case ga completed

case ga_victory: F StartFinale (): case ga_worlddone: G_DoWarldDone ()

case ga screenshot M ScreenShot () gameaction = ga_nothing; case ga_nothing: break:

// S DSBHWeget commands, check consistancy,

for (i=0 ; i<MAXPLAYERS ; i++) if (playeringame(il) // S CHAINFLASH1 cmd = &players[i].cmd;

if (demorecording)

// S_PISTOLFLASHcase ga_newgame: SUN G_DoNewGame ()

if (netgame && !netdemo && !(gametic%ticdut if (gametic > BACKUPTICS

&& consistancylillbufl != cmd->consi

// force players to be initialized upon first level load playerslil.playerstate = PST_REBORN:

consistancylillbuff = players(il.mo->)

switch (gameaction)

case da loadlevel G DoLoadLevel (

PISTOLFLASH**case ga_newg**ame: G_DoNewGame (...

case ga_loadgame

WEEKLY OR QUARTERLY

MAXIMUM 4 MONTHS

DECIDE FEATURES THEY MUST INCLUDE IN EACH RELEASE

TEST AND USE OF FUNCTIONALITY

AFTER EACH ITERATION

Fast Delivvery

Feed back loops

Frequent delivery

consistancylillbufl = players(il.mo->)

// force players to be initialized upon first level load

TAKING A BREAK FROM REGULAR

DEVELOPMENT TO FIND BETTER

WAYS FOR PROCESSES

MEETING EVERY COUPLE OF WEEKS

TO DISCUSS WHAT CAN BE

MODIFIED IN THE PROJECT

REFLECTIVE IMPROVEMENT

// force players to be initialized upon first level load

case ga_victory. case ga_worlddone G DoWorldDone ()

MEETING

static char turbomessage[80]

switch (gameaction) case ga_loadlevel G DoLoadLevel ()

case ga_loadgame

case ga playdemo G_DoPlayDemo (case da completed

F StartFinale ():

e ga screenshot ScreenShot 0:

action = ga_nothing;

ck consistancy stancy check MARACKUPTICS

erstil.cmc

ReadDemoTicomd (cmd)

players(consoleplayer), message = turbo

&& !(gametic>>5)&:

if (gametic > BACKUPTICS && consistancylillbufl != cmd->consi

consistancylillbufl = players(il.mo->)

CLOSE OR OSMOTIC COMMUNICATION AND PERSONAL SAFETY

BE RAPIDLY ANSWERED, REDUCING THE RISK OF

ERRORS

PEOPLE WORKING ON THE PROJECT MUST BE

ABLE TO TRUST EACH OTHER AND FEEL FREE TO

SPEAK UP ABOUT ISSUES

TEAM BEING TOGETHER IN A ROOM AND GETTING INFORMATION TO FLOW AROUND IT QUESTIONS THAT ARISE FROM THE WORK CAN

eNumForName ("SKY2") delegate INDIVIDUAL TASK TWO-HOUR-FREE OF INTERRUPTIONS PERIOD FOR EACH DEVELOPER - DIRECTION THE PROJECT IS HEADING EACH DEVELOPER IS ASSIGNED TO HRESHOLD FUNCTIONALITY FOR TWO DAYS BE BEING SWITCHED TO ANOTHER ONE for (i-s. SARG RUN):

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// S_PISTOLFLASHcase ga_newgame: mobiinfofMT_HEADSHOTI.speed = 10°FRACUNI mobjinfolMT_TROOPSHOT1.speed = 10°FRACUNIT

switch (gameaction) case da loadlevel G DoLoadLevel ()

case ga_lcadgame

case ga_playdemo:

G_DoPlayDemo () case ga completed

F StartFinale (): case ga_worlddone G_DoWarldDone () break; se ga screenshot ScreenShot 0: action = ga_nothing; nothing

> ck consistancy ancy check 6BACKUPTICS

> > still.cmd:

adDemoTicomd (cmd) cording) WriteDemoTiccmd (cmd)

static char turbomessage(80);

extern char *player names[4] sprintf (turbomessage, "96s is turbo!",pl

if (gametic > BACKUPTICS

>forwardmove > TURBOTHRESHOLD

&& !(gametic&31) && ((gametic>>5)&3

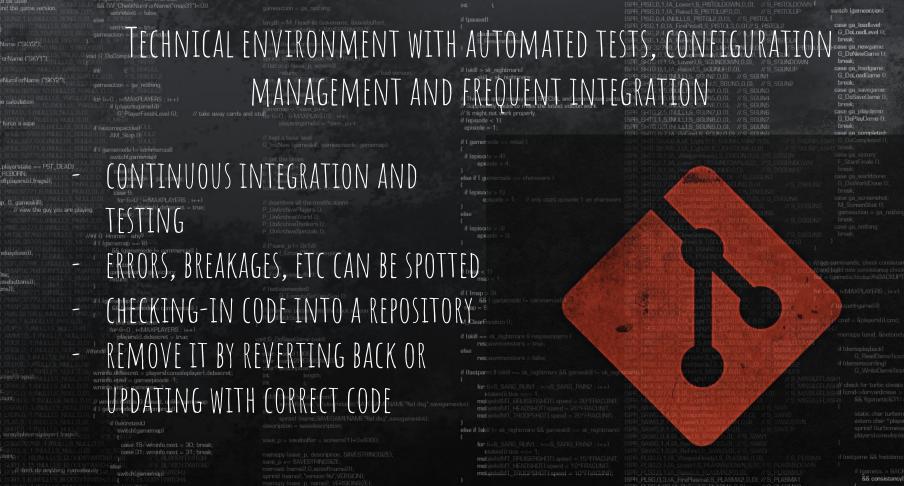
playersIconsoleplayerI.message = turbo if (netgame && !netdemo && !(gametic%ticdut

> && consistancylillbufl != cmd->consi 1 Error ("consistency failure (%) shou

consistancylillbuff = players(il.mo->) consistancylillbufl = mdindex

Snetcmdslillbufl, sizeoftticcme

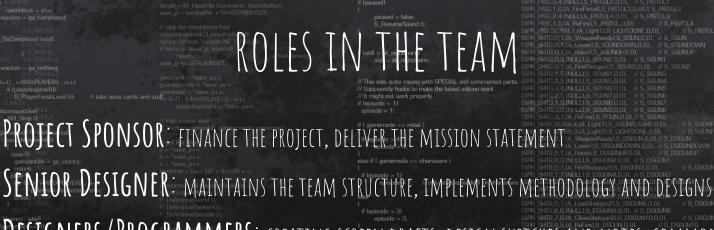
break;



// force players to be initialized upon first level load

LEmor ("consistency failure (%) cmd->consistancy, co

il (playerstif.mo) consistancylillbuff = playerstif.mo->; else



DESIGNERS/PROGRAMMERS: CREATING SCREEN DRAFTS, DESIGN SKETCHES AND NOTES, COMMON OBJECT

MODELS, SOURCE CODE, PACKAGED SYSTEM, MIGRATION CODE, AND TEST CASES

BUSINESS CLASS DESIGNERS

UNIT TESTERS

USERS: HELP WITH USE CASE AND SCREEN DRAFTS

SOFTWARE "DOCUMENTERS"

G ReadDemoTicanid (and) if (demorecording)

eNumForName ("SKY2") playerstate == PST_DEAD) EXPLORATORY 360° oftplayers(il.frags)) EARLY VICTORY WALKING SKELETON INCREMENTAL - RE-ARCHITECTURE INFORMATION RADIATORS

// Supposedly hacks to make the latest edition work. G_DoPlayDemo () case ga_completed: if (netgame && !netdemo && !(gametic%ticdut mobiinfolMT_HEADSHOTLspeed = 10°FRACUNIT

// force players to be initialized upon first level load

(SPR_PISE32768.7.(A_Light1).S_LIGHTDONE.D.O).

cmd->consistancy, consista

switch (gameaction) case da loadlevel: G_DoLoadLevel ()

case ga_savegame G_DoSaveGame ()

// S_PISTOLFLASH**case ga_newgame:** SGUN G_DoNewGame 0;

break: case ga_loadgame. G_DoLoadGame (

if (playerstil.mo)

consistancylillbufl = players(il.mo->)

if (gametic > BACKUPTICS && consistancylillbufl != cmd->consi 1 Error ("consistency failure (%) shou

Ilbuff, sizeoftticom

URBOTHRESHOLD & ((gametic>>5)&3 names[4]:

d (cmd): d (cmd)

consistancylillbufl = rndindex

G_DoPlayDemo ()

case da loadlevel

METHODOLOGY SHAPING REFLECTION WORKSHOP

BLITZ PLANNING

DELPHI ESTIMATION USING EXPERTISE RANKING

DAILY STAND-UP MEETINGS

- ESSENTIAL INTERACTION DESIGN

PROCESS MINIATURE

SIDE-BY-SIDE PROGRAMMING



consistancylillbuff = players(il.mo->)